



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

REQUEST FOR PROPOSALS

Item Description: BOTANICAL CENTER SOUND SYSTEM IMPROVEMENTS

Date to be opened: April 25, 2022 2PM

Issuing Department: PARKS DEPARTMENT

QUESTIONS

- Please direct questions relative to the bidding process, how to fill out forms, and how to submit a bid (Pages 1-8) to Purchasing Agent Patti Jordan.
 - Phone: (401) 680-5264
 - Email: pjordan@providenceri.gov
 - Please use the subject line “**RFP Question**”
- Please direct questions relative to the Minority and Women’s Business Enterprise Program and the corresponding forms (Pages 9-13) to the MBE/WBE Outreach Director for the City of Providence, Grace Diaz
 - Phone: (401) 680-5766
 - Email: gdiaz@providenceri.gov
 - Please use subject line “**MBE WBE Forms**”
- Please direct questions relative to the specifications outlined (beginning on page 14) to the issuing department’s subject matter expert:
 - **PHIROM KHUN**
 - **401-996-4219**
 - Pkhun@providenceri.gov

Pre-bid Conference

**A Non-Mandatory pre-bid conference will be held on March 15, 2022 at 10AM
Roger Williams Park Botanical Center
1000 Elmwood Ave, Providence, RI 02907 (site)**



**BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND**

INSTRUCTIONS FOR SUBMISSION

Bids may be submitted up to **2:15 P.M.** on the above meeting date at the **Department of the City Clerk, Room 311, City Hall, 25 Dorrance Street, Providence.** At 2:15 P.M. all bids will be publicly opened and read at the Board of Contract Meeting in the City Council Chambers, on the 3rd floor of City Hall.

- Bidders must submit **2 copies** of their bid in sealed envelopes or packages labeled with the captioned **Item Description** and the **City Department to which the RFP and bid are related.** (On page 1)
- Communications to the Board of Contract and Supply that are not competitive sealed bids (i.e. product information/samples) should have “**NOT A BID**” written on the envelope or wrapper.
- Only use form versions and templates included in this RFP. If you have an old version of a form do not recycle it for use in this bid.
- The bid envelope and information relative to the bid must be addressed to:

**Board of Contract and Supply
Department of the City Clerk – City Hall, Room 311
25 Dorrance Street
Providence, RI 02903**

****PLEASE NOTE: This bid may include details regarding information that you will need to provide (such as proof of licenses) to the issuing department before the formalization of an award.**

This information is NOT requested to be provided in your initial bid by design.

All bids submitted to the City Clerk become public record. Failure to follow instructions could result in information considered private being posted to the city’s Open Meetings Portal and made available as a public record. The City has made a conscious effort to avoid the posting of sensitive information on the City’s Open Meetings Portal, by requesting that such sensitive information be submitted to the issuing department only at their request.



**BOARD OF CONTRACT AND SUPPLY
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BID PACKAGE CHECKLIST

Digital forms are available in the City of Providence Purchasing Department Office or online at <http://www.providenceri.gov/purchasing/how-to-submit-a-bid/>

The bid package **MUST** include the following, in this order:

- Bid Form 1: Bidder's Blank as the cover page/ 1st page (*see page 6 of this document*)
- Bid Form 2: Certification of Bidder as 2nd page (*see page 7 of this document*)
- Bid Form 3: Certificate Regarding Public Records (*see page 8 of this document*)
- Forms from the Minority and Women Business Enterprise Program: Based on Bidder Category. *See forms and instructions enclosed (pages 9-13) or on: <https://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>*

***Please note: MBE/WBE forms must be completed for EVERY bid submitted and must be inclusive of ALL required signatures. Forms without all required signatures will be considered incomplete.**

- Bidder's Proposal/Packet: Formal response to the specifications outlined in this RFP, including pricing information and details related to the good(s) or service(s) being provided. Please be mindful of formatting responses as requested to ensure clarity.
- Financial Assurance, *if requested* (as indicated on page 5 of this document under "Bid Terms")

All of the above listed documents are REQUIRED. (With the exception of financial assurances, which are only required if specified on page 5.)

*****Failure to meet specified deadlines, follow specific submission instructions, or enclose all required documents with all applicable signatures will result in disqualification, or in an inability to appropriately evaluate bids.**



BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND

NOTICE TO VENDORS

1. The Board of Contract and Supply will make the award to the lowest qualified and responsible bidder.
2. In determining the lowest responsible bidder, cash discounts based on preferable payment terms will not be considered.
3. Where prices are the same, the Board of Contract and Supply reserves the right to award to one bidder, or to split the award.
4. No proposal will be accepted if the bid is made in collusion with any other bidder.
5. Bids may be submitted on an “equal in quality” basis. The City reserves the right to decide equality. Bidders must indicate brand or the make being offered and submit detailed specifications if other than brand requested.
6. A bidder who is an out-of-state corporation shall qualify or register to transact business in this State, in accordance with the Rhode Island Business Corporation Act, RIGL Sec. 7-1.2-1401, et seq.
7. The Board of Contract and Supply reserves the right to reject any and all bids.
8. Competing bids may be viewed in person at the Department of the City Clerk, City Hall, Providence, immediately upon the conclusion of the formal Board of Contract and Supply meeting during which the bids were unsealed/opened. Bids may also be accessed electronically on the internet via the City’s Open Meetings Portal.
9. As the City of Providence is exempt from the payment of Federal Excise Taxes and Rhode Island Sales Tax, prices quoted are not to include these taxes.
10. In case of error in the extension of prices quoted, the unit price will govern.
11. The contractor will **NOT** be permitted to: a) assign or underlet the contract, or b) assign either legally or equitably any monies or any claim thereto without the previous written consent of the City Purchasing Director.
12. Delivery dates must be shown in the bid. If no delivery date is specified, it will be assumed that an immediate delivery from stock will be made.
13. A certificate of insurance will normally be required of a successful vendor.
14. For many contracts involving construction, alteration and/or repair work, State law provisions concerning payment of prevailing wage rates apply (RIGL Sec. 37-13-1 et seq.)
15. No goods should be delivered or work started without a Purchase Order.
16. **Submit 2 copies of the bid to the City Clerk, unless the specification section of this document indicates otherwise.**
17. Bidder must certify that it does not unlawfully discriminate on the basis of race, color, national origin, gender, gender identity or expression, sexual orientation and/or religion in its business and hiring practices and that all of its employees are lawfully employed under all applicable federal, state and local laws, rules and regulations. (See Bid Form 2.)



BOARD OF CONTRACT AND SUPPLY
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BID TERMS

1. Financial assurances may be required in order to be a successful bidder for Commodity or Construction and Service contracts. If either of the first two checkboxes below is checked, the specified assurance must accompany a bid, or the bid will not be considered by the Board of Contract and Supply. The third checkbox indicates the lowest responsible bidder will be contacted and required to post a bond to be awarded the contract.
 - a) A certified check for \$_____ must be deposited with the City Clerk as a guarantee that the Contract will be signed and delivered by the bidder.
 - b) A bid bond in the amount of **5%** per centum (%) of the proposed total price, must be deposited with the City Clerk as a guarantee that the contract will be signed and delivered by the bidder; and the amount of such bid bond shall be retained for the use of the City as liquidated damages in case of default.
 - c) A performance and payment bond with a satisfactory surety company will be posted by the bidder in a sum equal to one hundred per centum (100%) of the awarded contract.
 - d) No financial assurance is necessary for this item.
2. Awards will be made within **sixty (60) days of bid opening**. All bid prices will be considered firm, unless qualified otherwise. Requests for price increases will not be honored.
3. Failure to deliver within the time quoted or failure to meet specifications may result in default in accordance with the general specifications. It is agreed that deliveries and/or completion are subject to strikes, lockouts, accidents and Acts of God.

The following entry applies only for COMMODITY BID TERMS:

4. Payment for partial delivery will not be allowed except when provided for in blanket or term contracts.

The following entries apply only for CONSTRUCTION AND SERVICE BID TERMS:

5. Only one shipping charge will be applied in the event of partial deliveries for blanket or term contracts.
6. Prior to commencing performance under the contract, the successful bidder shall attest to compliance with the provisions of the Rhode Island Worker's Compensation Act, RIGL 28-29-1, et seq. If exempt from compliance, the successful bidder shall submit a sworn Affidavit by a corporate officer to that effect, which shall accompany the signed contract.
7. Prior to commencing performance under the contract, the successful bidder shall, submit a certificate of insurance, in a form and in an amount satisfactory to the City.



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BID FORM 1: Bidders Blank

1. Bids must meet the attached specifications. Any exceptions or modifications must be noted and fully explained.
2. Bidder's responses must be in ink or typewritten, and all blanks on the bid form should be completed.
3. The price or prices proposed should be stated both in **WRITING** and in **FIGURES**, and any proposal not so stated may be rejected. **Contracts exceeding twelve months must specify annual costs for each year.**
4. Bids **SHOULD BE TOTALED** so that the final cost is clearly stated (unless submitting a unit price bid), however **each item should be priced individually**. Do not group items. Awards may be made on the basis of *total* bid or by *individual items*.
5. All bids **MUST BE SIGNED IN INK.**

Name of Bidder (Firm or Individual): _____

Contact Name: _____

Business Address: _____

Business Phone #: _____

Contact Email Address: _____

Agrees to bid on (Write the "Item Description" here): _____

If the bidder's company is based in a state *other than Rhode Island*, list name and contact information for a local agent for service of process that is *located within Rhode Island* _____

Delivery Date (if applicable): _____

Name of Surety Company (if applicable): _____

Total Amount in Writing*: _____

Total Amount in Figures*: _____

** If you are submitting a unit price bid, please insert "Unit Price Bid"*

Use additional pages if necessary for additional bidding details.

Signature of Representation

Title



BOARD OF CONTRACT AND SUPPLY
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BID FORM 2: Certification of Bidder
(Non-Discrimination/Hiring)

Upon behalf of _____ (Firm or Individual Bidding),

I, _____ (Name of Person Making Certification),

being its _____ (Title or "Self"), hereby certify that:

1. Bidder does not unlawfully discriminate on the basis of race, color, national origin, gender, sexual orientation and/or religion in its business and hiring practices.
2. All of Bidder's employees have been hired in compliance with all applicable federal, state and local laws, rules and regulations.

I affirm by signing below that I am duly authorized on behalf of Bidder, on
this _____ day of _____ 20_____.

Signature of Representation

Printed Name



BOARD OF CONTRACT AND SUPPLY
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BID FORM 3: Certificate Regarding Public Records

Upon behalf of _____ (Firm or Individual Bidding),

I, _____ (Name of Person Making Certification),

being its _____ (Title or "Self"), hereby certify an

understanding that:

1. All bids submitted in response to Requests for Proposals (RFP's) and Requests for Qualification (RFQ's), documents contained within, and the details outlined on those documents become public record upon receipt by the City Clerk's office and opening at the corresponding Board of Contract and Supply (BOCS) meeting.
2. The Purchasing Department and the issuing department for this RFP/RFQ have made a conscious effort to request that sensitive/personal information be submitted directly to the issuing department and only at request if verification of specific details is critical the evaluation of a vendor's bid.
3. The requested supplemental information may be crucial to evaluating bids. Failure to provide such details may result in disqualification, or an inability to appropriately evaluate bids.
4. If sensitive information that has not been requested is enclosed or if a bidder opts to enclose the defined supplemental information prior to the issuing department's request in the bidding packet submitted to the City Clerk, the City of Providence has no obligation to redact those details and bears no liability associated with the information becoming public record.
5. The City of Providence observes a public and transparent bidding process. Information required in the bidding packet may not be submitted directly to the issuing department at the discretion of the bidder in order to protect other information, such as pricing terms, from becoming public. Bidders who make such an attempt will be disqualified.

I affirm by signing below that I am duly authorized on behalf of Bidder, on

this _____ day of _____ 20____.

Signature of Representation

Printed Name



**BOARD OF CONTRACT AND SUPPLY
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WBE/MBE Form Instructions

The City of Providence actively seeks Minority and Women business enterprises to participate in bids to meet the City's procurement needs. Pursuant to the City of Providence Code of Ordinances, Chapter 21, Article II, Sec. 21-52 (Minority and Women's Business Enterprise) and Rhode Island General Laws (as amended), Chapter 31-14, et seq. (Minority Business Enterprise), Minority Business Enterprise (MBE) and Women's Business Enterprise (WBE) participation goals apply to contracts.

The goal for Minority Business Enterprise (MBE) participation is **10%** of the total bid value.

The goal for Women's Business Enterprise (WBE) participation is **10%** of the total bid value.

The goal for combined MBE/WBE participation is **20%** of the total bid value.

Only businesses certified with the State of Rhode Island as minority and/or women business enterprises are counted towards the City's goals. Eligible minority or women-owned businesses are encouraged to seek certification from the State of Rhode Island Minority Business Enterprise Compliance Office at: <http://odeo.ri.gov/offices/mbeco/>

Note: MBE certification with the State of Rhode Island on the basis of Portuguese heritage is not currently recognized by the City of Providence's MBE program.

Bid Requirements:

All Bidders: All bidders must complete and submit the **MBE/WBE Participation Affidavit** indicating whether or not they are a state-certified MBE/WBE and acknowledging the City's participation goals. Submission of this form is required with **every bid**. Your bid will not be accepted without an affidavit.

Bidders who will be subcontracting: Bidders who will be subcontracting must submit the **Subcontractor Disclosure Form** as part of their bid submission. All subcontractors, regardless of MBE/WBE status, must be listed on this form. Business NAICS codes can be found at <https://www.naics.com/search/>. Awarded bidders are required to submit **Subcontractor Utilization and Payment Reports** with each invoice.

Waiver Requests:

If the percentage of the total amount of the bid being awarded to MBE or WBE vendors is less than 20% (Box F on the Subcontractor Disclosure Form) and the prime contractor is not a Rhode Island State-certified MBE or WBE, the Bidder must complete the **MBE/WBE Waiver Request Form** for review. Waivers will be considered on a case by case basis.

No waiver will be granted unless the waiver request includes documentation that demonstrates that the Bidder has made good faith efforts to achieve the City's stated participation goals. Waivers must be reviewed and signed by the City of Providence's MBE/WBE Outreach Director, Grace Diaz, or her designee. Department Directors cannot recommend a bidder for award if this form is applicable and absent. If the bid does not meet the participation goals of the City of Providence and a waiver is not filed with the signature of the MBE/WBE Outreach Director or her designee, the bid will not be accepted.

Verifying MBE/WBE Certification

It is the responsibility of the bidder to confirm that every MBE/WBE named in a proposal and included in a contract is certified by the Rhode Island Minority Business Enterprise Compliance office. The current MBE/WBE directory is available at the State of RI MBE Office, One Capitol Hill, 2nd Floor, Providence, RI, or online at <http://odeo.ri.gov/offices/mbeco/mbe-wbe.php>. You can also call (401) 574-8670 to verify certification, expiration dates, and services that the MBE/WBE is certified to provide. Note: MBE certification with the State of Rhode Island on the basis of Portuguese heritage is not currently recognized by the City of Providence's MBE program.



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Form Instructions:

Access all bid forms from <http://www.providenceri.gov/oeo/> or <http://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>. **Download** the forms as blank PDFs. Once saved on your computer, fill them out using the Adobe program. The fillable PDFs must be completed in Adobe in order to be saved properly. Google Chrome and similar platforms do not allow for the forms to be saved as filled PDFs. Therefore, please download the blank forms to your computer, then fill them out and save.

Assistance with Form Requirements

Examples of completed forms can be found on the City of Providence website at <http://www.providenceri.gov/oeo/> or <http://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>.

Contract Requirements:

Prime contractors engaging subcontractors must submit the *Subcontractor Utilization and Payment Report* to the City Department's Fiscal Agent with every invoice and with request for final payment. This form is not submitted as a part of the initial bid package.

For contracts with duration of less than 3 months, this form must be submitted along with the contractor's request for final payment. The form must include all subcontractors utilized on the contract, both MBE/WBE and non- MBE/WBE, the total amount paid to each subcontractor for the given period and to date. During the term of the contract, any unjustified failure to comply with the MBE/WBE participation requirements is a material breach of contract.

Questions?

For more information or for assistance with MBE/WBE Forms, contact the City of Providence MBE/WBE Outreach Director, Grace Diaz, at mbe-wbe@providenceri.com or (401) 680-5766.



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MBE/WBE PARTICIPATION AFFIDAVIT

Item Discussion (as seen on RFP):

Prime Bidder: _____

Prime Bidder (Company) Phone Number: _____

Which one of the following describes your business' status in terms of Minority and/or Woman-Owned Business Enterprise certification with the State of Rhode Island? MBE WBE Neither MBE nor WBE

By initialing the following sections and signing the bottom of this document in my capacity as the contractor or an authorized representative of contractor, I make this Affidavit:

It is the policy of the City of Providence that minority business enterprises (MBEs) and women business enterprises (WBEs) should have the maximum opportunity to participate in procurements and projects as prime contractors and vendors. Pursuant to Sec. 21-52 of the Providence Code of Ordinances and Chapter 31-14 *et seq.* of the Rhode Island General Laws (as amended), MBE and WBE participation goals apply to contracts.

The goal for Minority Business Enterprise (MBE) participation is 10% of the total bid value.
The goal for Women's Business Enterprise (WBE) participation is 10% of the total bid value.
The goal for combined MBE/WBE participation is 20% of the total bid value.

I acknowledge the City of Providence's goals of supporting MBE/WBE certified businesses. Initial _____

If awarded the contract, I understand that my company must submit to the Minority and Women's Business Coordinator at the City of Providence (MBE/WBE Office), copies of all executed agreements with the subcontractor(s) being utilized to achieve the participation goals and other requirements of the RI General Laws. **I understand that these documents must be submitted prior to the issuance of a notice to proceed.** Initial _____

I understand that, if awarded the contract, my firm must submit to the MBE/WBE Office canceled checks and reports required by the MBE/WBE Office on a quarterly basis verifying payments to the subcontractors(s) utilized on the contract. Initial _____

If I am awarded this contract and find that I am unable to utilize the subcontractor(s) identified in my Statement of Intent, I understand that I must substitute another certified MBE and WBE firm(s) to meet the participation goals. **I understand that I may not make a substitution until I have obtained the written approval of the MBE/WBE Office.**

Initial _____

If awarded this contract, I understand that authorized representatives of the City of Providence may examine the books, records and files of my firm from time to time, to the extent that such material is relevant to a determination of whether my firm is complying with the City's MBE/WBE participation requirements.

Initial _____

I do solemnly declare and affirm under the penalty of perjury that the contents of the foregoing Affidavit are true and correct to the best of my knowledge, information and belief.

Signature of Bidder

Printed Name

Company Name

Date



**BOARD OF CONTRACT AND SUPPLY
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SUBCONTRACTOR DISCLOSURE FORM

Fill out this form only if you WILL SUBCONTRACT with other parties. If you will not subcontract any portion of the proposed bid, do not fill out this form.

Prime Bidder: _____ Primary NAICS _____

Code: _____

Item Description (as seen on RFP): _____

Please list all Subcontractors below. Include the total dollar value that you propose to share with each subcontractor and the dollar amount to be subcontracted. Please check off MBE and WBE where applicable. The directory of all state-certified MBE/WBE firms is located at www.mbe.ri.gov. Business NAICS codes can be found at <https://www.naics.com/search/>

Proposed Subcontractor	MBE	WBE	Primary NAICS Code	Date of Mobilization	\$ Value of Subcontract
					\$
					\$
					\$
					\$
					\$
					\$
A. MBE SUBCONTRACTED AMOUNT:					\$
B. WBE SUBCONTRACTED AMOUNT:					\$
C. NON MBE WBE SUBCONTRACTED AMOUNT:					\$
D. DOLLAR AMOUNT OF WORK DONE BY THE PRIME CONTRACTOR:					\$
E. TOTAL AMOUNT OF BID (SUM OF A, B, C, & D):					\$
F. PERCENTAGE OF BID SUBCONTRACTED TO MBEs AND WBEs. (Divide the sum of A and B by E and multiply result by 100).					%

Please read and initial the following statement acknowledging you understand. If the percentage of the total amount of the bid being awarded to MBE or WBE vendors is less than 20% (Box F) and the prime contractor is NOT a Rhode Island State-certified MBE or WBE, you must fill out the MBE/WBE WAIVER REQUEST FORM for consideration by City of Providence MBE/WBE Outreach Director. Initial _____

Signature of Bidder

Printed Name



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MBE/WBE Waiver Request Form

Fill out this form only if you are subcontracting and did not meet the 20% MBE/WBE participation goal. State-certified MBE or WBE Prime Bidders are NOT REQUIRED to fill out this form.

Submit this form to the City of Providence MBE/WBE Outreach Director, Grace Diaz, at mbe-wbe@providenceri.gov, for review **prior to bid submission**. This waiver applies only to the current bid which you are submitting to the City of Providence and does not apply to other bids your company may submit in the future.

Prime Bidder: _____

Company Trade: _____

Item Discussion (as seen on RFP): _____

To receive a waiver, you must list the certified MBE and/or WBE companies you contacted, the name of the primary individual with whom you interacted, and the reason the MBE/WBE company could not participate on this project.

MBE/WBE Company Name	Individual's Name	Company Trade	Why did you choose not to work with this company?

I acknowledge the City of Providence's goal of a combined MBE/WBE participation is 20% of the total bid value. I am requesting a waiver of _____ % MBE/WBE (20% minus the value of **Box F** on the Subcontractor Disclosure Form). If an opportunity is identified to subcontract any task associated with the fulfillment of this contract, a good faith effort will be made to select MBE/WBE certified businesses as partners.

Signature of Prime Contractor

Printed Name

Date Signed

Signature of City of Providence
MBE/WBE Outreach Director

Printed Name of City of Providence
MBE/WBE Outreach Director

Date Signed



**BOARD OF CONTRACT AND SUPPLY
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SUPPLEMENTAL INFORMATION

If the issuing department for this RFP determines that your firm's bid is best suited to accommodate their need, you will be asked to provide proof of the following prior to formalizing an award.

An inability to provide the outlined items at the request of the department may lead to the disqualification of your bid.

*This information is **NOT** requested to be provided in your initial bid that you will submit to the City Clerk's office by the "date to be opened" noted on page 1. This list only serves as a list of items that your firm should be ready to provide on request.*

All bids submitted to the City Clerk become public record. Failure to follow instructions could result in information considered private being posted to the city's Open Meetings Portal and made available as a public record.

You must be able to provide:

- Business Tax ID will be requested after an award is approved by the Board of Contract and Supply.
- **PROOF OF INSURANCE**



**BOARD OF CONTRACT AND SUPPLY
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BID FORM 3: Supplemental Bid Form

To whom it may concern:

1. The undersigned, having familiarized (himself) (themselves) (itself) with the **BOTANICAL CENTER SOUND SYSTEM IMPROVEMENTS** bid affecting the cost of work, and with the Contract Documents (which includes the Invitation for Bids, Instructions to Bidders, Form of Bid Bond, Form of Agreements, form of Non-Collusive Affidavit, Addenda (if any), Drawings, Technical Specification, Form of Surety Bond(s); as prepared by the Providence Parks Department, and on file in the office of the City Clerk 3rd Floor, City Hall, Providence, RI 02903, hereby proposes to furnish all supervision, technical personnel, labor, materials, machinery, tools, equipment and services including utility and transportation services, and to perform such other required work for the **BOTANICAL CENTER SOUND SYSTEM IMPROVEMENTS** and such other required and incidental work, complete, all in accordance with the above listed documents and for the unit prices for work in-place for the following items and quantities.

2. In submitting this Bid, the bidder understands that the right is reserved by The Providence Parks Department to reject any and all Bids, If written notice of acceptance of this Bid is mailed, telegraphed or delivered to the undersigned within (90) days after the opening thereof, or at any time thereafter before this Bid is withdrawn, the undersigned agrees to execute and deliver an Agreement in the prescribed form and furnish the required bond within (10) days after the Agreement is presented to him/her for signature.

Herewith in accordance with the instructions to Bidders.

3. Attached hereto is an affidavit in proof that the undersigned has not colluded with any person in respect to this. Bid or any bids for the Contractor for which this Bid is submitted. Also attached is a Statement of Bidder's Qualifications.

4. Application unit prices are contained in the Agreement (established as the result of either a Unit Price Bid or a Supplemental Schedule of Unit Prices), the City of Providence may order the Contractor to proceed with desired changes in the work, the value of such changes to be determined by the measured quantities involved and the application unit prices specified in the Contract.

5. The City of Providence reserves the right to determine the lowest responsible Bidder based on past experience with the City and/or recommendations by City and/or state agencies with an interest in this procurement. The City reserves the right to award the project to the appropriate bidder in the best interest of the City of Providence.

CERTIFICATION OF NON-SEGREGATED FACILITIES

The Bidder certifies that he/she does not maintain or provide for his/her employees any segregated facilities at any of his establishments, and that he/she does not permit his/her employees to perform their services at any location, under his/her control, where segregation facilities are maintained. The Bidder agrees that a breach of this certification will be a violation of the Equal Opportunity Clause in any contract resulting from acceptance of this Bid. As used in this certification, term "segregation facilities" means any waiting rooms, work rooms, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation and housing facilities provided for employee which are segregated by explicit directive or are in fact segregated on basis of race, color, religion, or national origin, because of habit, local custom, or otherwise. The Bidder agrees that (except where he/she has obtained identical certification from proposed subcontractors for specific time periods) he/she will obtain identical certification from proposed subcontractor prior to the award of subcontracts exceeding \$10,000.00 which are not exempt from provisions of the Equal Opportunity Clause, and that he /she will retain such certifications in his/her files.

NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. & 1001.

DATE _____, 20__



BOARD OF CONTRACT AND SUPPLY
CITY OF PROVIDENCE, RHODE ISLAND

Name of Bidder and Official Address:

Name of Authorized Representative (Contact):

By _____
(Signature)
Title _____

E-Mail: _____

Phone: _____

Bidder shall indicate, in space provided, the earliest possible Project Start-up Date: _____, 20 _____

ADDENDA: The undersigned acknowledges receipt of the following Addenda, if any, and has included the provisions thereof in this Bid (If Any):

<u>Addendum No.</u>	<u>Date</u>	<u>Addendum No.</u>	<u>Date</u>
_____	_____, 20 ____	_____	_____, 20 ____
_____	_____, 20 ____	_____	_____, 20 ____

Sub-Contractors (If Any):

Name: _____ **Scope of Work:** _____ **MBE / WBE**

Name: _____ **Scope of Work:** _____ **MBE / WBE**

Name: _____ **Scope of Work:** _____ **MBE / WBE**



**BOARD OF CONTRACT AND SUPPLY
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SUPPLEMENTAL BID FORM

BOTANICAL CENTER SOUND SYSTEM IMPROVEMENTS

BASE BID: Roger Williams Park Botanical Center is located within Historic Roger Williams Park at the intersection of Cladrastic Avenue and Floral Avenue in Washington Park Neighborhood of Providence, RI. The Providence Parks Department is seeking qualified bidders to submit pricing for high quality sound system improvements inside the Botanical Center. The scope of work for this project shall include but not be limited to: Furnish and install high quality and reliable outdoor audio system in the Conservatory. Furnish and install single high quality “On-wall” speakers, wall mount volume controller and source selector on a location TBD from the Hallway to Conservatory. Furnish and install high quality audio system in the Koi Pond Area. Furnish and install high quality surface mount speakers in the Engagement Room. Furnish and install high quality speakers and replace volume control in Green Houses #3 and #4. Furnish and install high quality speakers, wall mounted volume controller and source selector in the Atrium. Furnish and install high quality speakers, a wall mounted volume controller and source selector in exterior locations. Utilize existing rack and add shelving to accommodate surge suppression in the AV Closet / Rack.

In addition to stating the Total Base Bid, the bidder shall state Unit Prices for related work listed under each bid item which represents the work items included in the Total Base Bid. The Unit Prices are quoted for computing adjustments to the Base Bid prior to Contract award, as well as during the course of construction, based upon extra work ordered by the City or for work countermanded, reduced or omitted by the City in order to stay within the Project budget.

Base Bid Items and Unit prices are to be Completed prices to be added or deducted on the basis of quantities of work involved, for each item in place in the unit indicated.

BASE BID: The Base Bid scope of work for this project shall include, but not be limited to the following:

All Work Included in this Project Shall be Completed for the lump sum of:

_____ Dollars

(\$ _____), **TOTAL BASE BID**

ADD ALTERNATES:

- Add Alt #1 – Furnish and Install (2) Sonance PS-S63T (6.5") outdoor extreme weather box speakers – per Lump Sum**

_____ LS \$ _____
price in writing

BIDDER: _____



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UNIT PRICES:

1. **Furnish and Install (12) Sonance 93370 LS6T SAT speaker – per Each**

_____ EA \$ _____
price in writing

2. **Furnish and Install (2) Sonance 93371 LS12T SUB, 12" buried waterproof subwoofer – per Each**

_____ EA \$ _____
price in writing

3. **Furnish and Install (12) Sonance 92924 9" GROUND STAKE – per Each**

_____ EA \$ _____
price in writing

4. **Furnish and Install (7) dbx ZC-8 Up/Down Volume w/Source Select – per Each**

_____ EA \$ _____
price in writing

5. **Furnish and Install (1) Sonance 45132 PS-C83RT WHITE IN-CEILING 8" COMMERCIAL SPEAKER – per Each**

_____ EA \$ _____
price in writing

6. **Furnish and Install (6) Sonance 40196 OMNI 6T Round landscape speaker – per Each**

_____ EA \$ _____
price in writing

7. **Furnish and Install (6) Sonance 40145 PS-S83T WHITE. Surface mount speaker 8" – per Each**

_____ EA \$ _____
price in writing

8. **Furnish and Install (14) Sonance PS-S63T (6.5") outdoor extreme weather box speaker – per Each**

_____ EA \$ _____
price in writing

BIDDER: _____



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9. **Furnish and Install (2) Episode EA-MR-AW-RVC-100 All-Weather 100 Watt Impedance Matching Volume Control – per Each**

_____ EA \$ _____
price in writing

10. **Furnish and Install (1) dbx 641 Digital Zone Processor – per Each**

_____ EA \$ _____
price in writing

11. **Furnish and Install (1) LEA Professional Connect 702 (Conservatory Area) 2 Channel x 700 watt @ 4 ohms, 8 ohms 70V and 100V per channel– per Each**

_____ EA \$ _____
price in writing

12. **Furnish and Install (2) LEA Professional Connect 352 (Koi Pond Area and Hallway) 2 Channel x 350 watt @ 4 ohms, 8 ohms 70V and 100V per channel – per Each**

_____ EA \$ _____
price in writing

13. **Furnish and Install (2) Sonos Port The versatile streaming component for stereo or receiver – per Each**

_____ EA \$ _____
price in writing

14. **Furnish and Install (1) Araknis Networks AN-110-SW-R-24 – per Each**

_____ EA \$ _____
price in writing

15. **Furnish and Install (1) Wattbox Power KIT-WB-700-IPV-12 IP+ Controllable 12 Controlled Outlet Power Conditioner with Faceplate Display Kit – per Each**

_____ EA \$ _____
price in writing

16. **Furnish and Install (1) Wattbox Power WB-200-9HTR Power Conditioner - 9 Outlets, 5400J, EMI/RFI Filtration, 3 Coax, 1 Ethernet, 1 Phone – per Each**

_____ EA \$ _____
price in writing

BIDDER: _____



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17. Furnish and Install (5) Strong SR-SHELF-FIXED-2U Fixed Rack Shelf 2U – per Each

_____ EA \$ _____
price in writing

18. Furnish and Install (2,000 feet) SnapAV SP-164-DB-1000-BLK Estimated 16/4 direct burial Speaker wire per foot – per Lump Sum

_____ LS \$ _____
price in writing

19. Furnish and Install (1,000 feet) Binary NST-CAT5E-1000-BLU Estimated Cat 5e Unshielded 24/4 Solid CMG-Rated Wire – 1000 Ft. Nest in Box (Blue) – per Lump Sum

_____ LS \$ _____
price in writing

20. Furnish and Install (1,000 feet) Binary NST-164-500-WH Estimated 16/4 65-Strand CL3-Rated Speaker Wire - 500 Ft. Nest in Box (White) – per Lump Sum

_____ LS \$ _____
price in writing

Please note that the list above is not intended to include all items required to complete the base bid scope of work but can and shall be used to adjust the contract prior to or after award – in the best interest of the City of Providence.

BIDDER: _____



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BID DOCUMENTS:

The complete set of Bid Documents consists of the Bid Form, Technical Specifications, Minority Participation Forms, and the following Drawings:

DRAWINGS:

- **L-1 Botanical Center Site Diagram**

TECHNICAL SPECIFICATION:

- **010000 General Requirements**
- **Attachment A: Manufacturing Specifications**

ADDITIONAL INFORMATION REQUIRED WITH BID:

- Qualifications to Perform Work – See Form Below for Information Required
- Minority Participation Forms – 10% MBE / 10 % WBE Goal on this Project
- Addenda (If Any) - Must Be Acknowledged on Bid Form
- Product Information for Items Submitted as ‘Or Equal’ to Specified Materials

PROVISIONS OF THIS PROJECT:

- Upon the Issuance of the Award from the Board of Contract – the City shall issue a Contract to be executed by the City and the vendor incorporating the bid specifications. All Provisions of the Specifications are binding.
- Any Permits Required by the City of Providence and/or State of Rhode Island Shall be Obtained by the Vendor – Permit Fees by the City of Providence Shall be Waived – the State ADA Fee Must be Paid
- The Davis Bacon Act Applies (HUD Projects) – Prevailing Wages Must Be Paid for On Site Hours – On-Site Interviews will be Conducted During the Project – Employees Shall be Advised of the Prevailing Wage Rates Prior to Mobilization on Site
- Certified payrolls Must be Submitted With Pay Requests Including Monthly Utilizations Form
- Performance and Payment Bonds (If Required) Must be Submitted within 10 Days of Award or Bid Bond Will be Forfeited
- An Insurance Certificate Shall be Submitted to the City Within 10 Days of Award
- A Copy of the Vendors Contractor’s License Must be Submitted within 10 Days of Award
- All On-Site Personnel Shall be Licensed (If Required) and Shall have Proof of All Licenses Required by the State of Rhode Island to Perform the Work Required
- Pay Requests Must be Submitted on Approved AIA Billing Documents (City will Provide if Needed)
- All Subcontractors Shall be Listed on the Bid Form – All Insurance & Payroll Requirements Apply
 - General Contractor Shall be the Insurance Certificate Holder and the City Shall be Named as ‘Additionally Insured’ with Respect to Liability Insurance
- A Submittal Log Must be Submitted within 10 Days of Award



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CLOSE OUT DOCUMENTS:

- Prior to Final Payment the Vendor Shall Provide the Following:
 - Copies of Permits Signed off and Approved (If Any)
 - Operating Manuals and Warranties Shall Be Transferred and/or Delivered
 - Full and Completed As-Built Drawings Shall be Submitted for Approval
 - Training Shall be Provided to City Personnel (If Required)
 - Certification by Manufactures Representative (If Required)

QUALIFICATIONS:

Qualifications will be evaluated on the basis of similar project experience for:

- a. Completion of at least 3 similar projects within the past five years.
- b. Size and dollar value of similar completed projects.
- c. Contractor's performance with similar projects. (references will be checked)
- d.. Relevant experience of individuals assigned to the project.

Questions regarding this bid package shall be submitted via e-mail to **Patti Jordan** at pjordan@providenceri.gov and **Phirom Khun, Supervisor of Project Planning** at pkhun@providenceri.gov, no later than five (5) working days before the bid opening date.

Phirom Khun is the project contact and can be reached at 401-996-4219.



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TECHNICAL SPECIFICATIONS

This project qualifies for prevailing wages per the Prevailing Wages Statute or the Davis Bacon Act (HUD). Certified payrolls will need to be submitted to the owner for all hours worked on site for this project. The Wage Decision for this project shall be as recorded on the Bid Date and is available on the RI Department of Labor website.

**Federal Labor Standards
U.S. Department of Housing & Urban Development**

Applicability

The Project of Program to which the Construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

A.1. (i) Minimum Wages. All laborers and mechanics employed or working up on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction of development of the project) will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification or work actually performed, without regard to skill, excepts as provided in 29 CFR Part 5.5 (a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFT part 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers.

(ii) (a) Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contact shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and
- (3) The proposed wage rate, including any bona fide fringe benefits, bears a relationship to the wage rates contained in the wage determination.

(b) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB control number 1215-0140.)



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(c) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

(d) The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(b) or (c) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

2. Withholding. HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much that the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all or part of the wages required by the contract. HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the contractor, disburse such amounts withheld for and on account of the contractor or subcontractor to the respective employees to whom they are due. The comptroller General shall make such disbursements in the case of direct Davis-Bacon Act contracts.

3. (i) Payrolls and basic records. Payrolls and basic record relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937, or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonable anticipated in providing benefits under a plan or program described in Section 1(b)(2)(B) or the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (Approved by the Office of Management and Budget under OMB Control Numbers 1215-0140 and 1215-0017.)

(ii) (a) The contractor shall submit weekly for each in which any contract work is performed a copy of all payrolls to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant, sponsor or owner, as the case may be, for transmission to HUD or its designee. The



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payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR Part 5.5(a)(3)(i). This information may be submitted in any form desired. Optional Form WH-34 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-00014-1), Government Printing Office, Washington, Dc 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. (Approved by the Office of Management and Budget under OMB Control Number 1215-0149.)

(b) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be maintained under 20 CFR Part 5.5

(a)(3)(i) and that such information is correct and complete;

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(c) The weekly submission of a property executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph AA.3. (ii)(b) of this section.

(d) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code. (iii) The contractor or subcontractor shall make the records required under paragraph A.3. (i) of this section available for inspection, copying, or transcription by authorized representatives of HUD or its designee or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR Part 5.12.

4. (i) Apprentices and Trainees. Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprentice program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the even the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by



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the Bureau, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirement of Executive Order 11246, as amended, and 29 CFR Part 30.

5. Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR Part 3, which are incorporated by reference in this contract.

6. Subcontracts. The contractor or subcontractor will insert in any subcontract the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as HUD or its designee may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all contract clauses in 29 CFR Part 5.5

7. Contracts termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor as provided in 29 CFR 5.12

8. Compliance with Davis-Bacon and Related Act Requirements. All ruling and interpretations of the Davis-Bacon and Related Act contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

9. Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and HUD or its designee, the U.S. Department of Labor, or the employees or their representatives.

10. (i) Certification of Eligibility. By entering in to this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR part 24.

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act of 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.

(iii) The penalty to making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001. Additionally, U.S. Criminal Code, Section 1010, Title 18, U.S.C., "Federal Housing Administration transaction", provides in part: "Whoever, for the purpose of ...influencing in any way the action of such Administration...makes, utter or publishes any statement, knowing the same to be false...shall be fined not more than \$5,000 or imprisoned not more than two years, or both."



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11. Complaints, Proceedings, or Testimony by Employees. No laborer or mechanic to whom the wage, salary, or other labor standards provisions of this Contract are applicable shall be discharged or in any other manner discriminated against by the Contractor or any subcontractor because such employee has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable under this Contract to his employer.

B. Contract Work Hours and Safety Standards Act. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

(1) Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in subparagraph (1) or this paragraph, the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$25 for each calendar day on which such individual was required or permitted to work in excess of forty hours without payment of the overtime wages required by the clause set forth in subparagraph (1) of this paragraph.

(3) Withholding for unpaid wages for liquidated damages. HUD or its designees shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold of cause to be withheld from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.

(4) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

C. Health and Safety

(1) No laborer or mechanic shall be required to work in surrounding or under working conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.

(2) The Contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1926 (formerly Part 1518) and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act (Public Law 91-54, 83 Stat. 96).

(3) The Contractor shall include the provisions of this Article in every subcontract so that such provisions will be binding on each subcontractor. The Contractor shall take such action with respect to any subcontract as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.

Questions regarding this bid shall be sent via e-mail to Phirom Khun at pkhun@providenceri.gov. Questions and responses will be sent to all bidders.

"General Decision Number: RI20220001 01/21/2022

Superseded General Decision Number: RI20210001

State: Rhode Island

Construction Types: Building, Heavy (Heavy and Marine) and Highway

Counties: Rhode Island Statewide.

BUILDING CONSTRUCTION PROJECTS (does not include residential construction consisting of single family homes and apartments up to and including 4 stories) HEAVY, HIGHWAY AND MARINE CONSTRUCTION PROJECTS

Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60).

If the contract is entered into on or after January 30, 2022, or the contract is renewed or extended (e.g., an option is exercised) on or after January 30, 2022, Executive Order 14026 generally applies to the contract. The contractor must pay all covered workers at least \$15.00 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

If the contract was awarded on or between January 1, 2015 and January 29, 2022, and the contract is not renewed or extended on or after January 30, 2022, Executive Order 13658 generally applies to the contract. The contractor must pay all covered workers at least \$11.25 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on that contract in 2022.

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/07/2022
1	01/21/2022

ASBE0006-006 12/01/2019

Rates Fringes

HAZARDOUS MATERIAL HANDLER
(Includes preparation,

wetting, stripping, removal
 scrapping, vacuuming, bagging
 & disposing of all insulation
 materials, whether they
 contain asbestos or not, from
 mechanical systems).....\$ 36.60 22.40

 ASBE0006-008 09/01/2021

Rates Fringes

Asbestos Worker/Insulator
 Includes application of
 all insulating materials,
 protective coverings,
 coatings & finishes to all
 types of mechanical systems.\$ 45.00 32.89

 BOIL0029-001 01/01/2021

Rates Fringes

BOILERMAKER.....\$ 45.87 29.02

 BRRIO003-001 06/01/2020

Rates Fringes

Bricklayer, Stonemason,
 Pointer, Caulker & Cleaner.....\$ 42.55 28.02

 BRRIO003-002 03/01/2020

Rates Fringes

Marble Setter, Terrazzo
 Worker & Tile Setter.....\$ 40.78 28.92

 BRRIO003-003 03/01/2020

Rates Fringes

Marble, Tile & Terrazzo
 Finisher.....\$ 34.10 27.88

 CARP0330-001 01/01/2021

Rates Fringes

CARPENTER (Includes Soft
 Floor Layer).....\$ 39.72 28.66
 Diver Tender.....\$ 40.72 28.66
 DIVER.....\$ 51.47 28.66
 Piledriver.....\$ 39.72 28.66
 WELDER.....\$ 40.72 28.66

FOOTNOTES:

When not diving or tending the diver, the diver and diver
 tender shall receive the piledriver rate. Diver tenders
 shall receive \$1.00 per hour above the pile driver rate
 when tending the diver.

Work on free-standing stacks, concrete silos & public utility
 electrical power houses, which are over 35 ft. in height

when constructed: \$.50 per hour additional.

Work on exterior concrete shear wall gang forms, 45 ft. or more above ground elevation or on setback: \$.50 per hour additional.

The designated piledriver, known as the ""monkey"": \$1.00 per hour additional.

CARP1121-002 01/06/2020

	Rates	Fringes
MILLWRIGHT.....	\$ 39.07	29.15

ELEC0099-002 06/02/2021

	Rates	Fringes
ELECTRICIAN.....	\$ 43.61	54.71%
Teledata System Installer.....	\$ 32.71	12.57%+14.93

FOOTNOTES:

Work of a hazardous nature, or where the work height is 30 ft. or more from the floor, except when working OSHA-approved lifts: 20% per hour additional.

Work in tunnels below ground level in combined sewer outfall: 20% per hour additional.

ELEV0039-001 01/01/2021

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 55.03	35.825+A+B

FOOTNOTES:

A. PAID HOLIDAYS: New Years Day; Memorial Day; Independence Day; Labor Day; Veterans' Day; Thanksgiving Day; the Friday after Thanksgiving Day; and Christmas Day.

B. Employer contributes 8% basic hourly rate for 5 years or more of service of 6% basic hourly rate for 6 months to 5 years of service as vacation pay credit.

ENGI0057-001 12/01/2021

	Rates	Fringes
Operating Engineer: (power plants, sewer treatment plants, pumping stations, tunnels, caissons, piers, docks, bridges, wind turbines, subterranean & other marine and heavy construction work)		
GROUP 1.....	\$ 43.55	28.25+a
GROUP 2.....	\$ 41.55	28.25+a
GROUP 3.....	\$ 37.17	28.25+a

GROUP 4.....	\$ 34.32	28.25+a
GROUP 5.....	\$ 40.60	28.25+a
GROUP 6.....	\$ 31.40	28.25+a
GROUP 7.....	\$ 25.40	28.25+a
GROUP 8.....	\$ 37.25	28.25+a
GROUP 9.....	\$ 41.17	28.25+a

a. BOOM LENGTHS, INCLUDING JIBS:

- 150 feet and over + \$ 2.00
- 180 feet and over + \$ 3.00
- 210 feet and over + \$ 4.00
- 240 feet and over + \$ 5.00
- 270 feet and over + \$ 7.00
- 300 feet and over + \$ 8.00
- 350 feet and over + \$ 9.00
- 400 feet and over + \$10.00

a. PAID HOLIDAYS:

New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day, Christmas Day. a: Any employee who works 3 days in the week in which a holiday falls shall be paid for the holiday.

a. FOOTNOTES:

Hazmat work: \$2.00 per hour additional.
Tunnel/Shaft work: \$5.00 per hour additional.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, lighters, boom trucks and derricks

GROUP 2: Digging machine, Ross Carrier, locomotive, hoist, elevator, bidwell-type machine, shot & water blasting machine, paver, spreader, graders, front end loader (3 yds. and over), vibratory hammer & vacuum truck, roadheaders, forklifts, economobile type equipment, tunnel boring machines, concrete pump and on site concrete plants.

GROUP 3: Oilers on cranes.

GROUP 4: Oiler on crawler backhoe.

GROUP 5: Bulldozer, bobcats, skid steer loader, tractor, scraper, combination loader backhoe, roller, front end loader (less than 3 yds.), street and mobile-powered sweeper (3-yd. capacity), 8-ft. sweeper minimum 65 HP).

GROUP 6: Well-point installation crew.

GROUP 7: Utility Engineers and Signal Persons

GROUP 8: Heater, concrete mixer, stone crusher, welding machine, generator and light plant, gas and electric driven pump and air compressor.

GROUP 9: Boat & tug operator.

ENGI0057-002 11/01/2021

Rates Fringes

Power Equipment Operator
 (highway construction
 projects; water and sewerline
 projects which are incidental
 to highway construction
 projects; and bridge projects
 that do not span water)

GROUP 1.....	\$ 36.70	28.25+a
GROUP 2.....	\$ 31.40	28.25+a
GROUP 3.....	\$ 25.40	28.25+a
GROUP 4.....	\$ 31.98	28.25+a
GROUP 5.....	\$ 35.68	28.25+a
GROUP 6.....	\$ 35.30	28.25+a
GROUP 7.....	\$ 30.95	28.25+a
GROUP 8.....	\$ 32.33	28.25+a
GROUP 9.....	\$ 34.28	28.25+a

a. FOOTNOTE: a. Any employee who works three days in the week in which a holiday falls shall be paid for the holiday.

a. PAID HOLIDAYS: New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day & Christmas Day.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Digging machine, crane, piledriver, lighter, locomotive, derrick, hoist, boom truck, John Henry's, directional drilling machine, cold planer, reclaimer, paver, spreader, grader, front end loader (3 yds. and over), vacuum truck, test boring machine operator, veemere saw, water blaster, hydro-demolition robot, forklift, economobile, Ross Carrier, concrete pump operator and boats

GROUP 2: Well point installation crew

GROUP 3: Utility engineers and signal persons

GROUP 4: Oiler on cranes

GROUP 5: Combination loader backhoe, front end loader (less than 3 yds.), forklift, bulldozers & scrapers and boats

GROUP 6: Roller, skid steer loaders, street sweeper

GROUP 7: Gas and electric drive heater, concrete mixer, light plant, welding machine, pump & compressor

GROUP 8: Stone crusher

GROUP 9: Mechanic & welder

 ENGI0057-003 12/01/2021

BUILDING CONSTRUCTION

	Rates	Fringes
Power Equipment Operator		
GROUP 1.....	\$ 42.82	28.25+a
GROUP 2.....	\$ 40.82	28.25+a
GROUP 3.....	\$ 40.60	28.25+a
GROUP 4.....	\$ 36.60	28.25+a
GROUP 5.....	\$ 33.75	28.25+a

GROUP 6.....	\$ 39.90	28.25+a
GROUP 7.....	\$ 39.47	28.25+a
GROUP 8.....	\$ 36.79	28.25+a

a. BOOM LENGTHS, INCLUDING JIBS:

- 150 ft. and over: + \$ 2.00
- 180 ft. and over: + \$ 3.00
- 210 ft. and over: + \$ 4.00
- 240 ft. and over: + \$ 5.00
- 270 ft. and over: + \$ 7.00
- 300 ft. and over: + \$ 8.00
- 350 ft. and over: + \$ 9.00
- 400 ft. and over: + \$10.00

a. PAID HOLIDAYS: New Year's Day, President's Day, Memorial Day, July Fourth, Victory Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day & Christmas Day. a: Any employee who works 3 days in the week in which a holiday falls shall be paid for the holiday.

- a. FOOTNOTE: Hazmat work: \$2.00 per hour additional.
Tunnel/Shaft work: \$5.00 per hour additional.

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Cranes, lighters, boom trucks and derricks.

GROUP 2: Digging machine, Ross carrier, locomotive, hoist, elevator, bidwell-type machine, shot & water blasting machine, paver, spreader, front end loader (3 yds. and over), vibratory hammer and vacuum truck

GROUP 3: Telehandler equipment, forklift, concrete pump & on-site concrete plant

GROUP 4: Fireman & oiler on cranes

GROUP 5: Oiler on crawler backhoe

GROUP 6: Bulldozer, skid steer loaders, bobcats, tractor, grader, scraper, combination loader backhoe, roller, front end loader (less than 3 yds.), street and mobile powered sweeper (3 yds. capacity), 8-ft. sweeper (minimum 65 hp)

GROUP 7: Well point installation crew

GROUP 8: Heater, concrete mixer, stone crusher, welding machine, generator for light plant, gas and electric driven pump & air compressor

IRON0037-001 09/16/2021

	Rates	Fringes
IRONWORKER.....	\$ 38.21	30.58

LABO0271-001 05/30/2021

BUILDING CONSTRUCTION

	Rates	Fringes
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LABORER

GROUP 1.....	\$ 33.55	26.15
GROUP 2.....	\$ 33.80	26.15
GROUP 3.....	\$ 34.30	26.15
GROUP 4.....	\$ 34.55	26.15
GROUP 5.....	\$ 35.55	26.15

LABORERS CLASSIFICATIONS

GROUP 1: Laborer, Carpenter Tender, Mason Tender, Cement Finisher Tender, Scaffold Erector, Wrecking Laborer, Asbestos Removal [Non-Mechanical Systems]

GROUP 2: Asphalt Raker, Adzemen, Pipe Trench Bracer, Demolition Burner, Chain Saw Operator, Fence & Guard Rail Erector, Setter of Metal Forms for Roadways, Mortar Mixer, Pipelayer, Riprap & Dry Stonewall Builder, Highway Stone Spreader, Pneumatic Tool Operator, Wagon Drill Operator, Tree Trimmer, Barco-Type Jumping Tamper, Mechanical Grinder Operator

GROUP 3: Pre-Cast Floor & Roof Plank Erectors

GROUP 4: Air Track Operator, Hydraulic & Similar Self-Powered Drill, Block Paver, Rammer, Curb Setter, Powderman & Blaster

GROUP 5: Toxic Waste Remover

LAB00271-002 05/30/2021

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
LABORER		
COMPRESSED AIR		
Group 1.....	\$ 53.45	24.15
Group 2.....	\$ 50.98	24.15
Group 3.....	\$ 40.50	24.15
FREE AIR		
Group 1.....	\$ 44.05	24.15
Group 2.....	\$ 43.05	24.15
Group 3.....	\$ 40.50	24.15
LABORER		
Group 1.....	\$ 33.55	24.15
Group 2.....	\$ 33.80	24.15
Group 3.....	\$ 34.55	24.15
Group 4.....	\$ 27.05	24.15
Group 5.....	\$ 35.55	24.15
OPEN AIR CAISSON, UNDERPINNING WORK AND BORING CREW		
Bottom Man.....	\$ 39.55	24.15
Top Man & Laborer.....	\$ 38.60	24.15
TEST BORING		
Driller.....	\$ 40.00	24.15
Laborer.....	\$ 38.60	24.15

LABORER CLASSIFICATIONS

GROUP 1: Laborer; Carpenter tender; Cement finisher tender; Wrecking laborer; Asbestos removers [non-mechanical systems]; Plant laborer; Driller in quarries

GROUP 2: Adzeperson; Asphalt raker; Barcotype jumping tamper; Chain saw operators; Concrete and power buggy operator; Concrete saw operator; Demolition burner; Fence and guard rail erector; Highway stone spreader; Laser beam operator; Mechanical grinder operator; Mason tender; Mortar mixer; Pneumatic tool operator; Riprap and dry stonewall builder; Scaffold erector; Setter of metal forms for roadways; Wagon drill operator; Wood chipper operator; Pipelayer; Pipe trench bracer

GROUP 3: Air track drill operator; Hydraulic and similar powered drills; Brick paver; Block paver; Rammer and curb setter; Powderperson and blaster

GROUP 4: Flagger & signaler

GROUP 5: Toxic waste remover

LABORER - COMPRESSED AIR CLASSIFICATIONS

GROUP 1: Mucking machine operator, tunnel laborer, brake person, track person, miner, grout person, lock tender, gauge tender, miner: motor person & all others in compressed air

GROUP 2: Change house attendant, powder watchperson, top person on iron

GROUP 3: Hazardous waste work within the ""HOT"" zone

LABORER - FREE AIR CLASSIFICATIONS

GROUP 1: Grout person - pumps, brake person, track person, form mover & stripper (wood & steel), shaft laborer, laborer topside, outside motorperson, miner, conveyor operator, miner welder, heading motorperson, erecting operator, mucking machine operator, nozzle person, rodperson, safety miner, shaft & tunnel, steel & rodperson, mole nipper, concrete worker, form erector (wood, steel and all accessories), cement finisher (this type of work only), top signal person, bottom person (when heading is 50' from shaft), burner, shield operator and TBM operator

GROUP 2: Change house attendant, powder watchperson

GROUP 3: Hazardous waste work within the ""HOT"" zone

PAIN0011-005 06/01/2021

	Rates	Fringes
PAINTER		
Brush and Roller.....	\$ 36.42	22.90
Epoxy, Tanks, Towers, Swing Stage & Structural Steel.....	\$ 38.42	22.90
Spray, Sand & Water Blasting.....	\$ 39.42	22.90
Taper.....	\$ 37.17	22.90
Wall Coverer.....	\$ 36.92	22.90

PAIN0011-006 06/01/2021

	Rates	Fringes
GLAZIER.....	\$ 39.98	22.90

FOOTNOTES:

SWING STAGE: \$1.00 per hour additional.

PAID HOLIDAYS: Labor Day & Christmas Day.

 PAIN0011-011 06/01/2021

	Rates	Fringes
Painter (Bridge Work).....	\$ 54.00	22.90

 PAIN0035-008 06/01/2011

	Rates	Fringes
Sign Painter.....	\$ 24.79	13.72

 PLAS0040-001 06/03/2019

BUILDING CONSTRUCTION

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 36.00	27.15

FOOTNOTE: Cement Mason: Work on free swinging scaffolds under 3 planks width and which is 20 or more feet above ground and any offset structure: \$.30 per hour additional.

 PLAS0040-002 07/01/2019

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 32.85	22.20

 PLAS0040-003 07/01/2019

	Rates	Fringes
PLASTERER.....	\$ 37.55	27.50

 PLUM0051-002 08/30/2021

	Rates	Fringes
Plumbers and Pipefitters.....	\$ 46.49	31.40

 ROOF0033-004 12/01/2021

	Rates	Fringes
ROOFER.....	\$ 40.40	29.06

 * SFRI0669-001 01/01/2022

	Rates	Fringes
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SPRINKLER FITTER.....	\$ 47.55	27.14
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SHEE0017-002 12/01/2020

	Rates	Fringes
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Sheet Metal Worker.....	\$ 38.58	36.73
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TEAM0251-001 05/01/2019

HEAVY AND HIGHWAY CONSTRUCTION

	Rates	Fringes
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TRUCK DRIVER

GROUP 1.....	\$ 27.96	26.8525+A+B+C
GROUP 2.....	\$ 27.61	26.8525+A+B+C
GROUP 3.....	\$ 27.66	26.8525+A+B+C
GROUP 4.....	\$ 27.71	26.8525+A+B+C
GROUP 5.....	\$ 27.81	26.8525+A+B+C
GROUP 6.....	\$ 28.21	26.8525+A+B+C
GROUP 7.....	\$ 28.41	26.8525+A+B+C
GROUP 8.....	\$ 27.91	26.8525+A+B+C
GROUP 9.....	\$ 28.16	26.8525+A+B+C
GROUP 10.....	\$ 27.96	26.8525+A+B+C

FOOTNOTES:

A. Paid Holidays: New Year's Day, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and Christmas Day, plus Presidents' Day, Columbus Day, Veteran's Day & V-J Day, providing the employee has worked at least one day in the calendar week in which the holiday falls.

B. Employee who has been on the payroll for 1 year or more but less than 5 years and has worked 150 Days during the last year of employment shall receive 1 week's paid vacation; 5 to 10 years - 2 weeks' paid vacation; 10 or more years - 3 week's paid vacation.

C. Employees on the seniority list shall be paid a one hundred dollar (\$100.00) bonus for every four hundred (400) hours worked, up to a maximum of five hundred dollars (\$500.00)

All drivers working on a defined hazard material job site shall be paid a premium of \$2.00 per hour over applicable rate.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Pick-up trucks, station wagons, & panel trucks

GROUP 2: Two-axle on low beds

GROUP 3: Two-axle dump truck

GROUP 4: Three-axle dump truck

GROUP 5: Four- and five-axle equipment

GROUP 6: Low-bed or boom trailer.

GROUP 7: Trailers when used on a double hook up (pulling 2

trailers)

GROUP 8: Special earth-moving equipment, under 35 tons

GROUP 9: Special earth-moving equipment, 35 tons or over

GROUP 10: Tractor trailer

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union, which prevailed in the survey for this classification, which in this example would be Plumbers 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1,

2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Division National Office Branch of Wage Surveys. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal

process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"

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Division	Section Title	Pages
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SPECIFICATIONS GROUP
General Requirements Subgroup

DIVISION 01 - GENERAL REQUIREMENTS

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END OF TABLE OF CONTENTS

SECTION 010000 - GENERAL REQUIREMENTS

PART 1 - GENERAL

1.1 All work done under this Contract shall also be in conformance with the Drawings and these Supplemental Technical Specifications.

A. SCOPE OF WORK

1. The general summary of work to be done under this contract consists of, but shall not be limited, to the following as shown in the Contract Documents:

B. WORK COVERED BY CONTRACT DOCUMENTS

C. The Contractor shall execute the scope of work indicated on Plans and Specifications to enhance the use and operations of the site as shown within the project limits.

D. Work shall be as specifically indicated, shown or described in the Drawings, Technical Specifications, and other Contract Documents.

E. PROJECT INFORMATION

1. OWNER

- a. City of Providence Parks Department Roger Williams Park Dalrymple Boathouse, 1000 Elmwood Avenue, Providence, RI 02907, Telephone: 401.680.7200
- b. Superintendent of Parks: Wendy Nilsson

2. OWNER'S REPRESENTATIVE

- a. Phirom Khun - Supervisor of Project Planning - 401.996.4219

1.2 PROJECT LOCATION

A. Roger Williams Park Botanical Center - Floral Ave - Providence, RI 02905

PART 2 - PRODUCTS

2.1 CONTRACTOR USE OF PREMISES

A. The Contractor's use of premises shall be within the limits shown on the Drawings and as defined in the Standard Form of Agreement, for the performance of the Work.

1. The Contractor shall maintain vehicular access and utility service to the abutting properties at all times throughout the course of the construction.
2. The Contractor shall assume full responsibility for security of all materials and equipment on the site, including those of the subcontractors.
3. If directed by the Owner's Representative, the Contractor shall relocate or move any stored items that interfere with operations of the Owner.

4. The Contractor may elect to obtain (at no cost to the Owner) additional storage or work areas off-site if needed to perform the work.

2.2 OWNER OCCUPANCY REQUIREMENTS

- A. The Owner (City) anticipates that site inclusive of all on-site amenities beyond the Limit of Work will remain open throughout the course of construction.
- B. Contractor shall provide the Owner's Representative with a written plan describing the sequences and durations anticipated for the execution of the Work.

2.3 MOBILIZATION, SITE PREPARATION, & DEMOLITION

A. THE WORK SPECIFIED IN THIS SECTION INCLUDES:

1. Mobilization of all personnel and equipment;
2. Preparing the construction site for construction operations;
3. Materials to be removed and legally disposed of off site.
4. When applicable, verifying and utilizing survey control points as shown on the Drawings
5. Protecting existing site features to remain, such as fences, trees, shrubs and grassed areas outside the limit of work.
6. Protecting underground and overhead utilities and other existing facilities from damage.
7. Where applicable, provisions for site access and of traffic control.
8. At cessation of site improvement operations: Site clean-up
9. De-mobilization of all personnel and equipment.

2.4 CONSTRUCTION STAGING/STOCKPILE AREAS

- A. Staging areas within the Park is permitted as shown on the Plans with the prior consent of and coordination with the Owner.
- B. Restoration of the site to pre-existing condition shall be the sole responsibility of the Contractor.

2.5 MATERIALS AND EQUIPMENT:

A. Materials to be Removed and Stockpiled.

1. Materials directed to be removed and stockpiled shall be removed, transported to and stacked in a location directed by the Owner's Representative. All materials shall be neatly stacked as directed.
2. If the Owner's Representative determines that any part of the materials identified to be stockpiled are unsuitable for re use on the site or by the Owner elsewhere, such materials shall be evaluated for legal disposal by Owner's Representative and Contractor.

- B. Signs: Conform to requirements of Temporary Facilities and Controls.

- C. Temporary Site Protection: Temporary chain-link fence, if so desired shall be furnished, installed and maintained at no additional cost to the Owner. At the completion of all work at the site, the Contractor shall remove all temporary fencing and restore the site to its original condition at no additional cost to the Owner.

2.6 TEMPORARY CONSTRUCTION FACILITIES AND UTILITIES

- A. Make arrangements with the Owner's Representative for storage of materials and equipment in designated locations at the construction site. If staged on site, materials shall be secured from vandalism and or theft.
- B. Plastic construction fence or snow fencing if installed shall be maintained in good condition. Provide barricades, barrels, fencing and/or other barriers around excavations and trenches as required for safety. Upon completion, temporary fencing shall be removed and the affected area restored existing condition.

2.7 SITE MAINTENANCE

- A. Control dust from Contractor operations in accordance with specified dust control measures.
- B. Maintain the Site during construction in a manner that will not obstruct use on neighborhood streets. Proceed with the work in an orderly manner, maintaining the construction site free of debris and unnecessary equipment or materials.
- C. Legally dispose of all debris, rubbish, hazardous materials, oil, and grease in accordance with local ordinances.
- D. Maintain safety and security of the construction site and any stockpiled or staged materials or equipment if left on site.

2.8 TRAFFIC CONTROL

- A. For all of his operations, the Contractor shall provide appropriate traffic control in accordance with, TEMPORARY FACILITIES AND CONTROLS. The purposes of the traffic control are 1) to ensure that operations in the project area are performed in a safe and orderly manner, and 2) to minimize the impact of truck and equipment traffic and noise on adjacent homes near the project area. The Contractor shall be responsible for obtaining any and all required permits and approvals.
- B. Police Details, if required by the City, shall be paid directly to and coordinated with Providence Public Safety by the Owner.

2.9 DEMOBILIZATION

- A. Contractor shall be responsible for site security and safety at all times. Upon substantial completion of the work, Contractor shall remove all excess materials, equipment, construction debris, temporary facilities and construction measures (fencing, signs, barriers, etc.) from the

project area, and shall leave the site in suitable condition for full occupancy and use by the Owner. The sedimentation and erosion controls installed as part of the Work may not necessarily be removed at this time (see below).

- B. The Owner's Representative shall be the sole judge of whether the site has been suitably cleaned.

PART 3 - EXECUTION

3.1 GENERAL REQUIREMENTS

- A. The construction site entrance shall be as indicated on the plans. The Owner will provide access to any locked gate. Any tracked debris from the site present on adjacent roadways shall be removed and the roads swept daily to remove any excess mud, dirt, or rock originating from the site. Trucks hauling material shall be covered and equipped with gates that prevent material from falling out. If present, catch basins within 100 feet of site entry and exit locations shall be protected with inlet sediment control devices and maintained for the duration of the work.
- B. Identify, clearly mark and protect all survey monuments, temporary bench marks as well as any adjacent contractors' work and facilities (if applicable). Repair or replacement shall be at Contractor's sole expense if damaged by Contractor.
- C. Protect existing culverts, sewers, and all other utilities including gas, telecommunications, electricity, and water. Repair or replace at Contractor's sole expense if damaged by Contractor.
- D. Utilize or install drum or sawhorse barricades or backfill all open excavations, holes, trenches, and depressions occurring at construction sites or occurring as part of this work.

3.2 CHANGE ORDER PROCEDURE

A. DESCRIPTION

- 1. The Contractor shall comply with this procedure in the process of giving notification of change and preparing and submitting a proposal for adjustment due to a desired, perceived, or actual change in the work. Changes in the work, or period of performance of the work, may be directed in writing by the Owner's Representative or may be requested by the Contractor. In either case, payment for work accomplished under a modification may not be made until a formal contract modification, incorporating the change into the contract, has been issued and executed. Therefore, it is incumbent upon the Contractor to comply fully with this procedure and to expedite the resolution of changes.

3.3 CHANGE SUBMITTALS

- A. When requested, the Contractor shall submit the following to the Owner's Representative in accordance with the Submittals procedures described in these specifications:

1. Proposal cover letter on Contractor's letterhead;
2. Detailed price proposal;
3. Drawings or other explanatory data; and
4. Time extension statement with justification if any time extension is requested.

3.4 COMPLIANCE

- A. The Contractor shall take such measures as needed to assure familiarity and compliance by its staff with these procedures. If change proposals are incomplete, unclear, or ambiguous or are not supported by adequate documentation, the data will be returned and the Contractor shall resubmit or supplement the proposal as requested by the Owner's Representative. Delay resulting from the Contractor's noncompliance with this procedure shall not in itself constitute the basis for an extension in the time of performance under the contract.

3.5 PROCESSING CHANGES INITIATED BY THE OWNER'S REPRESENTATIVE

- A. The Owner's Representative will initiate changes only in writing. The Owner will sign any Request for Proposal (RFP). This will establish an Extra Work Order (EWO) number, by which the change will be identified until such time as it may be incorporated into the contract by formal Change Order (CO).
- B. The Contractor may or may not be authorized to proceed with the changed work pending resolution of changes in the contract price or time of performance. If the work described in the RFP becomes critical to the timely performance of the Contractor's work, a written request for a Notice to Proceed must be forwarded to the Owner immediately. The Owner will issue any Notice to Proceed. This unilateral modification to the contract may be subject to further negotiation regarding price and time for completion.
- C. Payment for changed work, covered by an authorized modification, will not be made until a notice to proceed covering the changed work has been executed.
- D. The Contractor shall prepare and submit its proposal for change to include at a minimum:
1. A cover letter referencing the EWO number and citing the attachments, if any, which constitute the Contractor's total proposal.
 2. A detailed price proposal showing labor, construction equipment, and material quantities and prices at the lowest practical level of each element of the work.
 3. Any drawings, sketches, catalog cuts, samples, certifications, or other data required to be submitted by the Owner's Representative that is required to fully document
 4. A statement of the proposed change in the time of completion of the contract, together with all required justification for such a change.
 5. A statement to the effect that there is "no change in price and/or time of completion of the work under this contract as a result of this proposed change", if that is the case.
- E. The Owner may accept the Contractor's proposal without negotiation. Alternatively, upon receipt of a proposal which is satisfactory in form, the Owner's Representative may require negotiation with the Contractor to arrive at a fair and equitable change in the contract price and time of completion. Upon agreement, a contract modification will be issued by the Owner for Contractor's execution.

3.6 PROCESSING CHANGES INITIATED BY THE CONTRACTOR

- A. Should the Contractor feel that a change to the work under the contract, or to the contract itself, is necessary or desirable, it shall propose such a change to the Owner's Representative. This proposed change shall include a clear and concise description of the proposed change, along with that information cited in above.
- B. Within a reasonable time, the Owner's Representative will review the Contractor's proposal and determine if the proposed change is in the Owner's best interest. If so, Contractor will be advised of this and a an EWO number will be assigned to Contractor's proposal.

3.7 EXECUTING CHANGED WORK

- A. The Contractor is cautioned not to proceed with the work described in a proposed change until it is authorized to do so in writing by the Owner's Representative.

3.8 TERMINATIONS AND DELAYS

- A. Termination of Contract: If the Contractor or any of his/her subcontractors refuses or fails to prosecute the work with such diligence as will insure its completion within the time specified in these Contract Documents, or as modified, as provided for in these Contract Drawings, or violates any other Provisions of this Contract, the Local Public Agency, Local Public Agency, City, by written notice to the Contractor, may terminate the Contractor's right to proceed with the Work. Upon such termination, the City of Providence may take over the work and prosecute the same to completion, by contract or otherwise, and the Contractor and his/her sureties shall be liable to the City of Providence for any additional cost incurred by the City of Providence in its completion of the work and they shall also be liable to the City of Providence for liquidated damages for any delay in the completion of the work as provided below. work and they shall also be liable to the City of Providence for liquidated damages for any delay work. in the completion of the work as provided below. work. If the Contractor's right to proceed is so terminated, the Local Public Agency Local Public Agency City may take possession of and utilize in completing the work such materials, tools, equipment, and plants as may be on the site of the work and necessary thereof. Project work must commence 30 days after award of Contract or as mutually agreed upon by the Contractor and the Owner. The Contractor is required to submit a Work Schedule including all items included in the scope of work. The Work Schedule shall mirror the Schedule of Values which should be in chronological order. Both items are identified in the standard Pre-Bid and Pre-Construction Meeting Minutes as required. The work shall be continuous and the Contractor shall staff the project appropriately to meet the agreed upon work schedule. De- Mobilization from the project, prior to completion, must be agreed upon in writing by the Owner.

3.9 INSPECTION OF WORK

A. DESCRIPTION

- 1. Work included in this Section consists of periodic observation of construction of the project. The Contractor's work shall be monitored periodically by the Owner's Representative

2. The Owner's Representative presence on site or construction observation work is inspectional in nature and will not include supervision or direction of the actual work of the contractor.
3. In no event will the Owner's Representative be responsible or liable for the contractor's use or administration of personnel, machinery, staging, or other temporary or precautionary construction, safety precautions or procedures, or for compliance by the contractor with the provisions, terms, or specifications of the contract. Observation services provided by the Owner's Representative are solely for the benefit of the Owner.
4. The Contractor shall keep the Owner's Representative informed concerning the work status and projected work schedule through regular communications.
5. The Contractor shall not cover any work related to the required field visits until one of the following occurs:
 - a. The Contractor is authorized by the Owner's Representative to proceed after the field visit.
 - b. The field visit is re-scheduled by the Owner's Representative to a later construction event
 - c. The field visit is waived in writing by the Owner's Representative
6. The Contractor shall request a Final Inspection seven calendar days in advance of the planned completion date. After review of the Notice of Completion, the Owner's Representative may reject the Notice for cause or schedule the Final Inspection. The Owner's Representative will perform its Final Inspection on all phases of the work and develop a comprehensive punch list, which will be provided to the Contractor.
7. The Final Inspection will be scheduled when the punch list items discovered during the Final Inspection have been corrected. If discovered, the Owner's Representative may add new items to the punch list at this inspection.
8. The Contractor is advised that the Owner's Representative will not accept the work until the Owner's Representative determines Substantial Completion has been achieved. Therefore, to minimize its risk, the Contractor should schedule its work to be substantially complete in time to allow the Final Inspection and punch list work to occur in advance of the Project Close Out Date. Due to the construction time period and the anticipated weather conditions, substantially complete will be defined as the completion of construction for all item and the temporary stabilization of all disturbed areas, excluding planting and final seeding. Planting and final seeding is to occur during the time periods specified..
9. Nothing in this Section shall be construed to limit the Owner's Representative right to inspect the work at any time.

3.10 CONSTRUCTION SCHEDULES

A. DESCRIPTION

1. Work included in this Section consists of preparation, submittal, and updating of the project.

3.11 CONSTRUCTION SCHEDULE

- #### A. Submit the following to the Owner's Representative in accordance with the Submittals Section. Submittals are for the record or approval as indicated.

1. The proposed construction schedule shall be submitted for approval within five (5) calendar days after receipt of Notice to Proceed.
 2. Submit contract Weekly Summary Reports to the Owner's Representative for the record at weekly site meeting at request by the Owner.
 3. Submit construction progress schedule including a two week look ahead as back up to progress invoices.
- B. The construction schedule shall show all work activities for completion of the work to be performed under this contract and will reflect Contractor's general sequential approach to the work. The construction schedule will be in a bar chart format. The minimum level of detail (number of activities) shall include the activities described in the Schedule of Values and the Scope of the Work. The construction schedule shall demonstrate completion of all work within the period of performance of the contract in a reasonable and achievable manner.

3.12 PERIODIC SCHEDULE UPDATES

- A. The Contractor shall support monthly payment requests with an approved construction schedule marked to indicate progress. Submit updated schedule as necessary.
- B. When in the opinion of the Owner's Representative changes in the work occur that significantly affect the schedule, the Contractor shall submit a revised construction schedule for approval. The revised construction schedule shall be submitted within 10 calendar days after it is requested by the Owner's Representative. The current approved construction schedule shall be used as a baseline for progress reporting.
- C. Acts of God: Claims for additional compensation for 'Acts of God' will be reviewed by the Owner. It is the Contractor's responsibility to secure the work site daily and failure to provide adequate provisions to do so may result in repairs to the site at the Contractor's expense. Documented 'Acts of God' such as the state issuing a 'State of Emergency' may result in the Owner's authorization to proceed repair funded by the Owner. No work shall proceed without written authorization by the Owner.

3.13 SUBMITTAL PROCEDURES

A. DESCRIPTION

1. This Specification Section covers the preparation and submission of all work plans, drawings, samples, manufacturer's literature and brochures, installation instructions, and operation and maintenance manuals as specified herein and in the various sections of these Specifications.
2. A Submittal Schedule shall be submitted for approval within five (5) calendar days after receipt of Notice to Proceed.

3.14 DRAWINGS

- A. The term "drawings" as used herein includes 'Shop Drawings' as required for fabrication, erection and installation, layout, and setting of proposed improvements; lists or schedules of materials and catalogues and brochures; performance and test data; and all other drawings and

descriptive data pertaining to materials and methods of construction as may be required to show that the materials, equipment, or systems and the positions thereof conform to the requirements of the Contract Documents.

- B. Where specified and if so directed by the Owner's Representative provide shop drawings that are accompanied by design computations.
- C. Sheet sizes of drawings shall not exceed 24 in. by 36 in. The title block on all drawings shall bear the name of the Owner, the name of the project, and the project location.
- D. The Contractor's drawings shall be submitted electronically in PDF format to the Owner's Representative for review and approval.
- E. The Contractor shall maintain a complete set of construction drawings at the jobsite, clearly marked to reflect as-built conditions. Upon completion of the work, the Contractor shall submit these Record Drawings to the Owner's Representative.
- F. The Owner's Representative will review drawings and schedules only for conformance with the design of the Project and for compliance with the Contract Documents and Contract Drawings. The Contractor shall make any and all updates and corrections required by the Owner's Representative
- G. Drawings shall be reviewed and returned within ten (10) working days of receipt of drawings at jobsite. Drawings and all supporting data, catalogs, or similar information shall be prepared by the Contractor or his suppliers and subcontractors but shall be submitted as instruments of the Contractor.
- H. The Owner's Representative review of drawings will be of a general nature and shall not relieve the Contractor from responsibility for errors and omissions of any sort, for deviations from Drawings or Specifications, or for conflict with the work of others that may result from such deviations. The Owner's Representative review of drawings will not relieve the Contractor of responsibility to complete the work in accordance with the requirements of the Contract Documents.
- I. After Notice of Award, the Contractor shall submit a Submittal Schedule to the Owner's Representative. The Contractor's schedule shall be brought up to date from time to time to show the latest changes, omissions, and additions. The Schedule will be based on the Contractor's Construction Schedule and will show when the Contractor will submit the drawings and when he/she expects them to be returned so that construction activities shown on the Construction Schedule are not interrupted. There will be a minimum of three weeks between these two activities. Specific methods and routines for handling drawing reviews shall be established in advance within the general framework of the Contract Documents.
- J. Work for which the Contractor's submittals are required shall not be started until the submittals have been reviewed and accepted in writing by the Owner's Representative. Any revision by the Contractor of a previously accepted submittal must be accepted in writing by the Owner's Representative before implementation.

3.15 SAMPLES

- A. The Contractor shall, at his or her expense, furnish the Owner's Representative with samples of the various materials as specified in these Specification and Drawings. Samples shall be delivered to the office of the Owner's Representative at the Contractor's expense.

3.16 PRODUCT DATA

- A. The Contractor shall submit to the Owner's Representative all required Material Safety Data Sheets (MSDS) and all Product Data Sheets and any other relevant product information for all items identified in the Technical Specifications and Drawings. All data shall be furnished by the Contractor in accordance with the approved schedule.

B. SUBMITTAL LOG

- 1. Contractor to provided the following information:
 - a. An I.D. number for each item
 - b. Specification Section, Paragraph Number and Line Item Number (ie. 321313 / 1.3 / A)
 - c. Item Name
 - d. Description of the Item
 - e. Date Submitted
 - f. Status: Approved / Approved As Noted / Rejected
 - g. Sub-Contractor (If any) providing the material
 - h. Comments

3.17 QUALITY CONTROL DESCRIPTION

- A. This Section provides the requirements for Contract quality control (QC) pertaining to the Work, including:
 - 1. QC of products and workmanship;
 - 2. Manufacturer's instructions; and
 - 3. Manufacturer's certificates and field services.

3.18 WORKMANSHIP

- A. The Contractor shall comply with industry standards of the region, except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.
- B. The Contractor shall provide suitably-qualified personnel to produce work of specified quality.
- C. The Contractor shall secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, and racking.
- D. The Contractor shall provide materials to match approved samples.

3.19 MANUFACTURER'S INSTRUCTIONS

- A. The Contractor shall require compliance with instructions in full detail, including each step in sequence. Should instructions conflict with the Contract Documents, the Contractor shall request clarification from the Owner's Representative before proceeding.

3.20 MANUFACTURER'S CERTIFICATES

- A. When required in individual Specifications sections, the Contractor shall submit manufacturer's certificates, in duplicate, certifying that products meet or exceed specified requirements.

3.21 TESTING LABORATORY SERVICES (NIC)

- A. Not Utilized in this Contract
- B. (Modify as Required)

3.22 MANUFACTURER'S FIELD SERVICES

- A. When required by the manufacturer or Owner's Representative, the Contractor shall have the manufacturer provide a qualified representative to observe field conditions, conditions of surfaces and installation, and quality of workmanship as applicable and to make written report of observations and recommendations to the Owner's Representative

3.23 AUTHORITY OF OWNER'S REPRESENTATIVE

- A. The Owner's Representative will decide all questions that may arise as to the quality and acceptability of materials furnished. All questions that may arise as to the interpretation of the Contract Drawing and Specifications shall be determined by the Owner's Representative.
- B. The Owner and Owner's Representative shall not be responsible for the Contractor's means, methods, techniques, sequences, or procedures of construction or the safety precautions and programs incident thereto, and the Owner's Representative will not be responsible for the Contractor's failure to perform the work in accordance with the Contract Documents.
- C. The Owner's Representative will not be responsible for the acts or omissions of the Contractor or any subcontractors, of the agents or employees of any Contractor or subcontractor, or of any other persons at the site or otherwise performing any of the work.

3.24 COORDINATION OF DRAWINGS AND SPECIFICATIONS

- A. The Contractor shall take no advantage of any apparent error or omission in the Contract Drawings or Specifications. In the event the Contractor discovers such a discrepancy, error or omission, he shall immediately notify the Owner's Representative. After review and consultation with the Owner's Representative the Owner's Representative will issue clarifications, provide interpretations and make such corrections as may be deemed necessary

for the Contractor to proceed with fulfilling the intent of the Contract Drawings and Specifications.

- B. When general reference is made on the Contract Drawings or within the Specifications to any cited Standard Specifications, it shall refer to the current edition of such Specifications or the latest revision thereof or interim Specifications adopted and in effect on the date of Effective Date of Agreement. In the event of a conflict between the Contract Drawings and the specifications, the Owner's Representative shall be notified to provide a clarification to the Contractor.

3.25 COOPERATION WITH UTILITIES

- A. The Contractor will notify all utility companies, all pipeline owners, or other parties affected and endeavor to have all necessary adjustments of the public or private utility fixtures, pipelines, and other appurtenances within or adjacent to the limits of construction made as soon as practical.
- B. Water lines, gas lines, wire lines, service connections, water and gas meter boxes, water and gas valve boxes, light standards, cableways, signals, and all other utility appurtenances within the limits of the proposed construction which are to be crossed, relocated or adjusted are to be moved by the Contractor or its designated agents, except as otherwise noted on the Contract Drawings. In the case of utility lines, the Contractor shall coordinate with the respective utilities for their removal and relocation.
- C. Attention is directed to the possible existence of underground facilities not known to the Owner's Representative or in a location different from that which is shown on the Contract Drawings. The Contractor shall take steps to ascertain the exact location of all underground facilities prior to doing work that may damage such facilities or interfere with their service.

3.26 INDEPENDENT TESTING AND INSPECTION (NIC)

- A. Not Applicable under this Contract

3.27 REQUIREMENTS

- A. The requirements for sampling and testing or inspection are specified in the Specifications and Drawings. The Contractor shall maintain a complete and up-to-date file of all quality control documentation at the jobsite.

3.28 MATERIAL AND EQUIPMENT

A. DESCRIPTION

1. This Specification Section includes the requirements for the transportation, handling, storage, and protection of materials and equipment as specified herein and in the various Sections of these Specifications. This Section also addresses the procedure for Contractor-proposed product substitutions.

3.29 MANUFACTURER REQUIREMENTS

- A. In general, the Contractor shall receive, handle, and store materials and equipment in accordance with manufacturer's recommendations and in a manner which will protect such items from damage or deterioration.
- B. GENERAL
- C. Products include the material, equipment, and systems used on this Project. Comply with the Specifications, Drawings and referenced standards as minimum requirements.

3.30 TRANSPORTATION AND HANDLING

- A. The Contractor shall receive, handle, and store materials and equipment supplied by him/her in a manner that will protect such items from damage or deterioration in accordance with procedures provided by product manufacturers and the Owner.
- B. Promptly inspect the shipments to assure that the products comply with requirements, the quantities are correct, and the products are undamaged.

3.31 STORAGE AND PROTECTION

- A. Materials and equipment shall be stored off the ground on blocking or pallets and shall be covered for protection from vandalism and weather damage.
- B. Materials and equipment shall be stored, tested, and cleaned prior to use, in accordance with the Specification and all specific manufacturers' requirements. Damaged or nonconforming items shall be removed immediately to a separated storage area for expeditious removal from site.
- C. The Contractor shall provide a secure outside storage area in the vicinity of the site.

3.32 SUBSTITUTIONS

- A. Substitutions will be considered only when a product becomes unavailable due to no fault of the Contractor or when deemed appropriate by the Owner's Representative
- B. Document each request with complete data substantiating the compliance of the proposed substitution with the Contract Documents.
- C. The requested substitution proposed constitutes a representation that the Contractor:
 - 1. Has investigated the proposed product and determined that it meets or exceeds, in all respects, the specified product.
 - 2. Will provide the same warranty for substitution as for the specified product.
 - 3. Will coordinate installation and make other changes which may be required for the Work to be complete in all respects.
 - 4. Waives claims for additional costs which may subsequently become apparent.

- D. Substitutions will be considered when they are indicated or implied on shop drawings or product data submittals without separate written request, or when acceptance will require substantial revision of the Contract Documents.
- E. The Owner's Representative will determine acceptability of the proposed substitution, and will notify the Contractor of acceptance or rejection in writing within a reasonable time. Only one request for the substitution will be considered for each product. When substitution is not accepted, the Contractor shall provide the specified product.

3.33 REJECTED MATERIALS AND DEFECTIVE WORK

- A. Materials furnished by the Contractor and rejected by the Owner's Representative as unsuitable or not in conformity with the specifications shall forthwith be removed from the job-site and work area by the Contractor, and shall not be made use of elsewhere in the work.
- B. Any errors, defects, or omissions in the execution of work or in the materials furnished by the Contractor, even though they may have been passed or overlooked or have appeared after the completion of the work, discovered at any time before the final payment is made hereunder, shall be forthwith rectified and made good by and at the expense of the Contractor and in a manner satisfactory to the Owner or Owner's Representative.
- C. The Contractor shall reimburse the Owner for any expense, losses or damages incurred in consequence of any defect error, omission or act of the Contractor or his employees, as determined by the Owner's Representative, occurring previous to the final payment.

3.34 PROJECT CLOSEOUT

A. DESCRIPTION

1. This Section specifies administrative and procedural requirements for the project closeout including, but not limited to:
 - a. Project record document (As-Built drawings) submittal. Maintain a clean, undamaged set of blue or black line white-prints of Contract Drawings and Shop Drawings. Mark the set to show the actual installation where the installation varies substantially from the Work as originally shown. Mark whichever drawing is most capable of showing conditions fully and accurately; where Shop Drawings are used, record a cross-reference at the corresponding location on the Contract Drawings. Give particular attention to concealed elements that would be difficult to measure and record at a later date.
 - b. Organize record drawing sheets into manageable sets, bind with durable paper cover sheets, and print suitable titles, dates and other identification on the cover of each set. Upon completion of work, submit record drawings to the Owner's Representative.
2. Record Specifications
 - a. Maintain one complete copy of the Project Manual, including addenda. Mark these documents to show substantial variations in actual Work performed in comparison with the Specifications and modifications. Give particular attention to substitutions, selection of options and similar information on elements that are concealed or cannot otherwise be readily discerned later by direct observation.

Note related record drawing information and Product Data. Upon completion of the Work, submit record Specifications.

3. Test Results
 - a. Not Applicable this project
4. REMOVAL OF PROTECTION
 - a. Remove temporary protection and facilities installed for protection of the Work during construction. Fencing and erosion and sediment control measures and best management practices can be removed after permanent measures have been established.

3.35 WARRANTIES

A. DESCRIPTION

1. This Section specifies general administration and procedural requirements for warranties and bonds required by the Contract Documents, including manufacturers' standard warranties on products and special warranties.
 - a. Refer to the General Conditions for terms of the Contractor's special warranty of workmanship and materials;
 - b. General closeout requirements are included in Section "Project Closeout"; and
 - c. Specific requirements for warranties for the Work and products and installations that are specified to be warranted are included in the specifications and Drawings.
2. Disclaimers and Limitations
 - a. Manufacturer's disclaimers and limitations on product warranties do not relieve the Contractor of the warranty on the Work that incorporates the products, nor does it relieve suppliers, manufacturers, and subcontractors required to countersign special warranties with the Contractor.

B. DEFINITIONS

1. Standard Warranties
 - a. Standard product warranties are pre-printed written warranties published by individual manufacturers for particular products and are specifically endorsed by the manufacturer to the Owner.
2. Special Warranties
 - a. Special warranties are written required by or incorporated in the Contract Documents, either to extend time limits provided by standard warranties or to provide greater rights for the Owner.

C. WARRANTY REQUIREMENTS

1. Related Damages and Losses
 - a. When correcting warranted Work that has failed, remove and replace other Work that has been damaged as a result of such failure or that must be removed and replaced to provide access for corrections of warranted Work.
2. Reinstatement of Warranty
 - a. When Work covered by a warranty has failed and been corrected by replacement or rebuilding, reinstate the warranty by written endorsement. The reinstated warranty shall be equal to the original warranty with an equitable adjustment for depreciation.

3. Replacement Cost
 - a. Upon determination that Work covered by a warranty has failed, replace or rebuild the Work to an acceptable condition complying with requirements of Contract Documents. The Contractor is responsible for the cost of replacing or rebuilding defective Work regardless of whether the Owner's Representative has benefited from use of the Work through a portion of its anticipated useful service life.
4. Owner's Recourse
 - a. Written warranties made to the Owner are in addition to implied warranties, and shall not limit the duties, obligations, rights and remedies otherwise available under the law, nor shall warranty periods be interpreted as limitations on time in which the Owner can enforce such other duties, obligations, rights and remedies.
5. Rejection of Warranties
 - a. The Owner's Representative reserves the right to reject warranties and to limit selections to products with warranties not in conflict with requirements of the Contract Documents. The Owner's Representative reserves the right to refuse to accept Work for the Project where a special warranty, certification, or similar commitment is required on such Work or part of the Work, until evidence is presented that entities required to counter sign such commitments are willing to do so.
 - b. All warranties shall be submitted to the Owner in accordance with conditions of the Contract and the Submittals.

D. WARRANTY PERIOD

1. All warranties required by the Contract documents shall commence on the date of Final Acceptance.
2. Warranty periods are varied from date of Final Acceptance. Please see Manufacturing Specifications for specified warranties.

END OF SECTION 010000

SONANCE

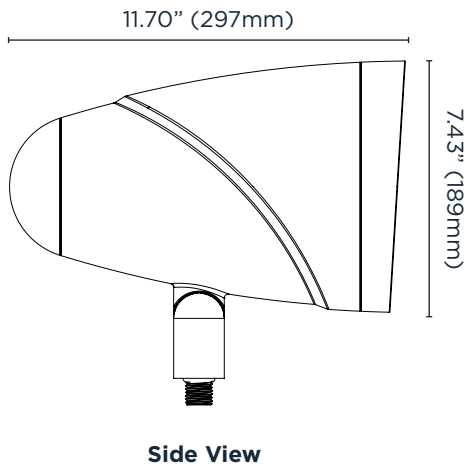
OUTDOOR SLS DATA SHEET

LS6T SAT

TECHNICAL SPECIFICATIONS

SKU	LS6T SAT 93370
UOM	Each
Tweeter	1" (25mm) Polyurethane dome
Woofers	6 1/2" (165mm) Injection molded polypropylene cone with a Santoprene™ rubber surround
Frequency Response	55Hz-20kHz +/-3dB
Transformer Taps	60W, 30W, 15W, (7.5W 70V), 8 Ohms
Enclosure Material	High Heat ABS, non-corrosive sealed enclosure
Stake/Mount Connection	1/2" NPS mounting thread
Finish	Dark brown textured canopy
Overall Dimensions (LxDia)	11.70" x 7.43" (297mm x 189mm)
Shipping Weight	10.75 lbs (4.88 kg) each

DIMENSIONAL DRAWINGS



ASSOCIATED PRODUCTS

Sonamp DSP 2-750 MKII Amplifier / Each	93379
LS12T SUB / Each	93371
LS15T SUB / Each	93372
HS12T SUB / Each	93373
19" Ground Stake for LS6T SAT / Each	92925
Tree Mount for LS4T SAT / Each	92927
Surface Mount for LS4T SAT / Each	92926

LIMITED FIVE (5) YEAR WARRANTY Sonance warrants to the first end-user purchaser that this Sonance-brand product ("Product"), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for the period stated above. Sonance will at its option and expense during the warranty period, either repair the defect or replace the Product with a new or remanufactured Product or a reasonable equivalent. For more details please refer to the product manual.

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SONANCE • 991 Calle Amanecer • San Clemente, CA 92673 USA • Phone: (949) 492-7777 • Fax: (949) 361-5151 • Technical Support: (949) 492-7777 • www.sonance.com 08.03.2021

OUTDOOR

SONANCE LANDSCAPE SERIES

LS12T SUB

Overview

The LS12T SUB is the first generation of Sonance Landscape Series to include a wide bandwidth Sonance Laminated Core Transformer with an adjustable tap, making it flexible and powerful for any outdoor landscape application. The SLS Sat and Sub system provides a superior landscape aesthetic with its discreet design and finish. The system blends into the terrain along walkways, tucked into planter beds, mounted up in the trees, and anywhere you want your audio to reach.

The all new Sonance SLS speakers and subwoofers are redesigned and engineered from the ground up for ultimate performance in any outdoor space, paving the way for premium audio in shared outdoor environments. Designed using performance features borrowed from both Sonance Professional Series and Visual Performance Extreme, Sonance Landscape Series boasts a completely immersive and performance-driven outdoor experience.

Key Features

Aesthetics

- Designed to blend in with landscape surroundings
- Color-molded composite construction won't chip, peel or fade over time

Performance

- Part of a scalable system that delivers perfectly even coverage and unequalled sonic performance throughout any space
- Polypropylene cone woofer with a Santoprene rubber surround for high excursion Sonance Laminated Core Transformer with an adjustable Tap for 300W, 150W, 75W, (38W 70V), and 8 ohm installations
- Laminar Flow Port reduces distortion and improves frequency response

Installation

- Vertically buried for easy installation

Environmental

- UV-resistant, low density polyethylene enclosure
- Robust construction to handle extreme conditions
- IP66 and MIL STD 810 rated

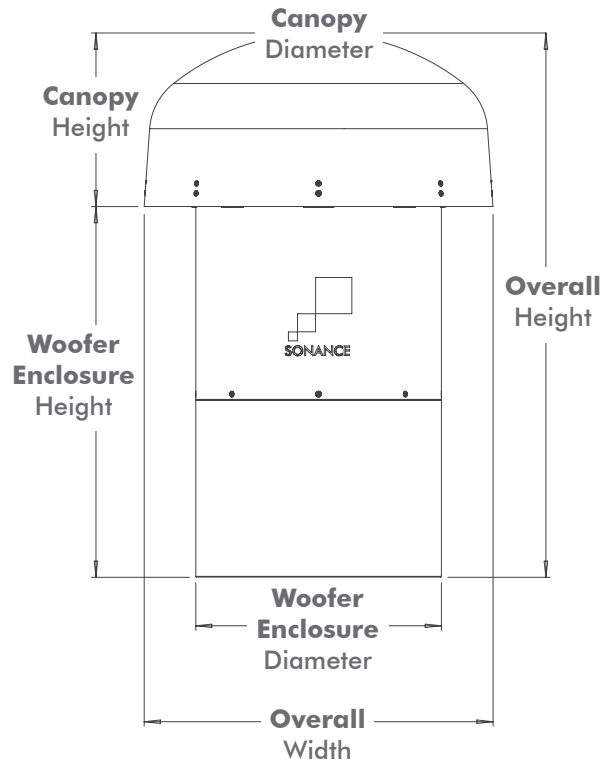


LS12T SUB






Specifications

SKU:	93371
Woofers:	12" (305mm) polypropylene cone with a Santoprene™ rubber surround
Frequency Response:	22Hz - 100Hz ±3dB
Transformer Taps:	300W, 150W, 75W, (70V) 300W, 150W (100V) 8 Ohms
Crossover Frequency:	100Hz
Enclosure Material:	Low density polyethylene
Finish:	Dark brown textured canopy
Dimensions:	<p>Overall</p> <p>Width: 16.97" (431mm)</p> <p>Height: 29.13" (740mm)</p> <p>Woofers Enclosure</p> <p>Height: 20.70" (526mm)</p> <p>Diameter: 13.78" (350mm)</p> <p>Canopy</p> <p>Height: 8.43" (214mm)</p> <p>Diameter: 16.97" (431mm)</p>
Shipping Weight:	70.55 lbs (32.0kg)



Recommended Products

Sonamp DSP 2-750 MKII Amplifier (Each)	93379	
LS4T SAT (Each)	93369	
LS6T SAT (Each)	93370	

LIMITED FIVE (5) YEAR WARRANTY

Sonance warrants to the first end-user purchaser that this Sonance-brand product ("Product"), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for the period stated below. Sonance will at its option and expense during the warranty period, either repair the defect or replace the Product with a new or remanufactured Product or a reasonable equivalent. Warranty Period for this Product: Five (5) years from the date on the original sales receipt or invoice or other satisfactory proof of purchase.



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Due to continuous product improvement, all features and specifications are subject to change without notice.

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www.sonance.com

INSTALLATION INSTRUCTIONS

SONANCE LANDSCAPE SERIES 9" GROUND STAKE FOR LS47SAT AND LS48SAT



READ THESE INSTRUCTIONS CAREFULLY BEFORE INSTALLING THIS STAKE

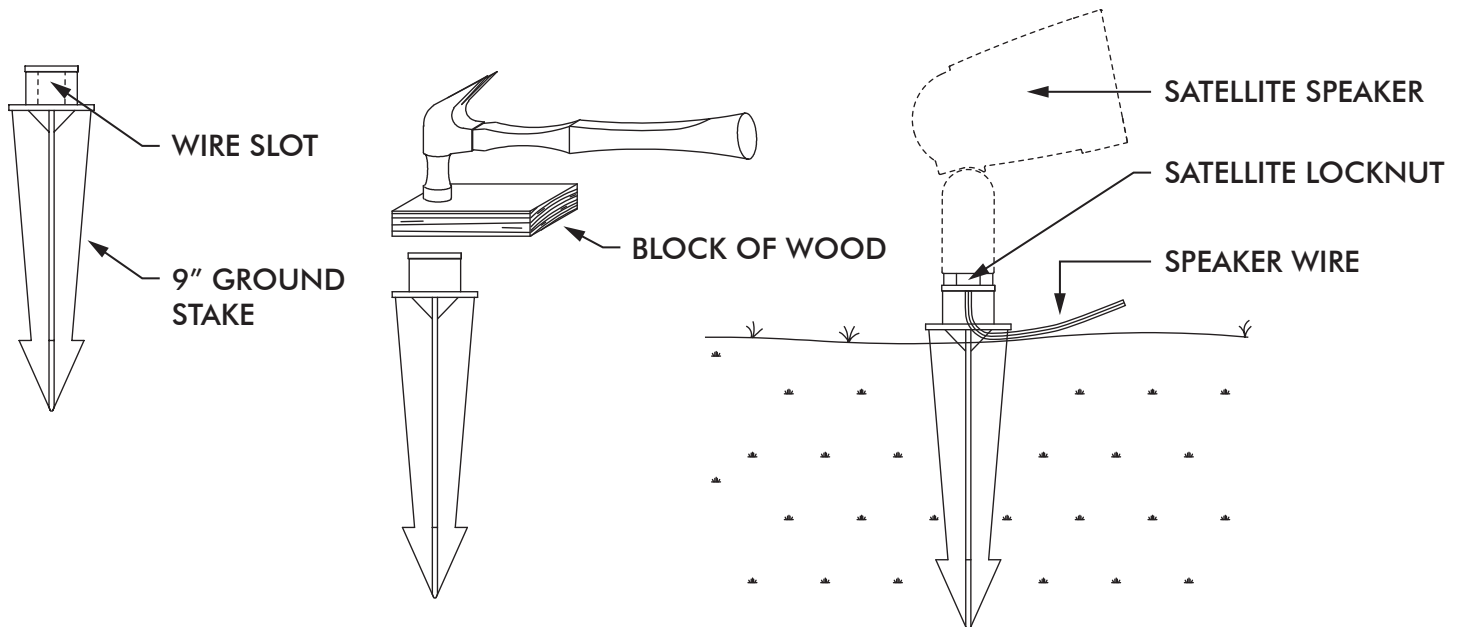
This stake is intended for installation in accordance with the National Electrical Code and local code specifications. Failure to adhere to these codes and instructions may result in serious injury and/or damage to the stake and will void the warranty. These instructions cover most installation applications. For any special applications not covered, please contact Sonance for assistance.

INSTALLATION INSTRUCTIONS

1. Drive stake into ground.

- **For installation in soft soil:** The stake can be installed without excavating the soil. Place a block of wood on top of the stake and drive it into the ground by striking the wood with a hammer.
- **For installation in hard soil:** Dig a hole for the stake. Place stake in hole with top cylinder of the stake above ground level. Hold the stake straight while backfilling and compacting the soil.

2. Pull satellite speaker wires through top of stake and out either side on the bottom opening.
3. Thread satellite into top of stake. Rotate satellite until it is aimed in the desired position. Satellites are equipped with a locknut, tighten locknut against stake.
4. Connect satellite to cable per the installation instructions for the satellite.



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ZC - Series

DriveRack® and ZonePRO™ Series Wall-Mounted Zone Controllers



ZC-1



ZC-6



ZC-2



ZC-7



ZC-3



ZC-8



ZC-4



ZC-9



ZC-BOB



ZC-Fire

VISIONARY DESIGN

The Zone Controllers offer extended utility to the DriveRack® and ZonePRO families. The ten Zone Controllers use analog DC voltage to provide logic control ranging from zone source selection, volume and muting, to program or scene selection and fire safety muting. Wired with readily available and affordable CAT5 cable with universally accepted RJ-45 connectors at distances up to 1000 ft, the ZC Zone Controllers offer simple yet elegant solutions to the contractor.

REVOLUTIONARY ENGINEERING

The ZC-1 provides programmable remote volume control for the DriveRack 260, 220i and the ZonePRO products. The ZC-2 offers programmable volume and mute control for the DriveRack 220i, 260 and the ZonePRO products. The ZC-3 can function as a program selector for the DriveRack 260 and 220i; in addition it can be used for as a source selector, page steering control, or a scene selector for the ZonePRO products. The ZC-4 provides program change capability from contact closures for the DriveRack 220i and 260; it can also provide source selection, page steering, or scene selection for the ZonePro products. The ZC-6 is a programmable volume control for the ZonePRO products. The ZC-7 is a programmable push-to-talk page assignment controller for the ZonePRO devices. The ZC-8 provides both programmable source selection and volume control to the ZonePro products. The ZC-9 provides source selection for the ZonePRO 1260 and 1261. The ZC-BOB allows “home run” or parallel wiring to the DriveRack and ZonePro products. The ZC-FIRE is a dedicated fire safety interface for the ZonePRO products that allows selection of either system mute or scene selection upon being triggered by either a relay or control voltage from the fire safety system. For more information please visit www.driverack.com or www.dbxpro.com.

FEATURES

- **Programmable Volume Control**
- **Program or Scene Selection**
- **Programmable Contact Closure Interface**
- **Up to 1000 ft. on CAT 5 Cable**
- **Programmable Push-To-Talk Paging**
- **Programmable Source Selection**

8760 S. Sandy Pkwy.
Sandy, Utah 84070
Phone (801) 568-7660
Fax (801) 568-7662
Int'l Fax (801) 568-7583
customer@dbxpro.com
<http://www.dbxpro.com>

H A Harman International Company

18-0180-D 10/04

ZC-Series

DriveRack® and ZonePRO™ Series Wall-Mounted Zone Controllers

SPECIFICATIONS

Connections:

ZC-1, ZC-2, ZC-3, ZC6, ZC-7, ZC-8 and ZC-9

Connectors: (2) RJ-45

ZC-4 Connectors: (1) RJ-45, (1) 6-pin Phoenix

ZC-BOB Connectors: (7) RJ-45

ZC-FIRE: (2) RJ-45, (2) 2-pin Phoenix

Series Wiring:

Maximum Cable Length varies with number of Zone Controllers.

For Example, Three Zone Controllers: 600 ft.

Six Zone Controllers: 300 ft.

Parallel Wiring:

Using a ZC-BOB:

Up to Six Zone Controllers: 1000 ft.

Cable:

CAT5 or CAT5E with 28.6 Ohm/M (Ohm/1000 ft.) nominal DCR and rated VW-1 or higher.

Safety Agency Certifications:

UL 60065, IEC 60065, EN 55013, E60065

Architects' and Engineers' Specifications:

ZC-1

The remote device shall provide computer programmable rotary potentiometer volume control for the dbx DriveRack 260, 220i and ZonePro devices. The remote device shall have DIP switches allowing identification with connection to the processing device via CAT 5 cable on RJ-45 connectors. The device shall be a dbx ZC-1 remote controller.

ZC-2

The remote device shall provide computer programmable rotary potentiometer and push-button volume control and muting for the dbx DriveRack 260, 220i and ZonePro devices. The remote device shall have DIP switches allowing identification with connection to the processing device via CAT 5 cable on RJ-45 connectors. The device shall be a dbx ZC-2 remote controller.

ZC-3

The remote device shall provide programmable rotary switch program selection for the dbx DriveRack 220i and 260 devices. The remote device shall also provide rotary switch programmable source selection, page assignment, or scene selection for the dbx ZonePro devices. The remote device shall have DIP switches allowing identification with connection to the processing device via CAT 5 cable on RJ-45 connectors. The device shall be a dbx ZC-3 remote controller.

ZC-4

The remote device shall provide programmable program selection via contact closures for the dbx DriveRack 220i and 260 devices. The remote device shall also provide contact closure programmable source selection, page assignment, or scene selection for the dbx ZonePro devices. The remote device shall have DIP switches allowing identification with connection to the processing device via CAT 5 cable on RJ-45 connectors. The device shall be a dbx ZC-4 remote controller.

ZC-6

The remote device shall provide computer programmable push-button up/down volume control for the dbx ZonePro devices. The remote device shall have DIP switches allowing identification with connection to the processing device via CAT 5 cable on RJ-45 connectors. The device shall be a dbx ZC-6 remote controller.

ZC-7

The remote device shall provide programmable push-to-talk page assignment for the dbx ZonePro devices. The remote device shall have DIP switches allowing identification with connection to the processing device via CAT 5 cable on RJ-45 connectors. The device shall be a dbx ZC-7 remote controller.

ZC-8

The remote device shall provide both programmable push-button up/down volume control, and programmable rotary switch source selection for the dbx ZonePro devices. The remote device shall have DIP switches allowing identification with connection to the processing device via CAT 5 cable on RJ-45 connectors. The device shall be a dbx ZC-8 remote controller.

ZC-9

The remote device shall provide programmable source selection for the ZonePro 1260 and 1261 devices. The remote shall have DIP switches allowing identification with connection to the processing device via CAT 5 cable on RJ-45 connectors. The device shall be a dbx ZC-9 remote controller.

ZC-BOB

The remote device shall provide up to 6 RJ-45 input jacks for "Home Run" or parallel wiring configurations of the dbx ZC wall panel controllers, and one output RJ-45 jack for connection to the dbx DriveRack or ZonePro device. The device shall be a dbx ZC-BOB remote controller.

ZC-FIRE

The remote device shall provide either output muting or programmable scene selection for the dbx ZonePro devices. Connection to the fire safety system shall be either through a relay or directly to the control voltage output. The remote device shall have DIP switches allowing identification with connection to the processing device via CAT 5 cable on RJ-45 connectors. The device shall be a dbx ZC-FIRE remote controller.

dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.

FOR MORE INFORMATION CONTACT:

dbx Professional Products
8760 S. Sandy Pkwy.
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<http://www.dbxpro.com>

dbx PROFESSIONAL PRODUCTS

The Professional's Choice In Signal Processing™

A Harman International Company

PROFESSIONAL SERIES

IN-CEILING SPEAKER PS-C83RT



Introducing the Sonance Professional Series

From Sonance, the company that created the architectural audio category comes a range of professional loudspeakers that set a new benchmark in sound quality and aesthetics for commercial environments.

Sonance Professional Series includes a range of In-Ceiling, Pendant and Surface Mount Speakers that deliver unequalled fidelity, extremely low distortion, wide dispersion and a smooth power response. The range also shares consistent voicing, ensuring seamless sonic integration when used together throughout a space.

The Sonance Professional Series PS-C83RT In-Ceiling Speaker features a one-piece bezel-less grille that is magnetically secured and allows for a one-step painting process to simplify installation and minimize visual distraction.

The optional Square Grille Adapter allows speakers to match the aesthetic of square downlights and HVAC grilles to achieve continual sight lines.

A high-excursion 8" polypropylene woofer delivers effortless low bass extension, even at high volumes, while the pivoting chambered 1" soft dome tweeter can be directed to ensure accurate coverage, when speaker positioning is compromised.

The PS-C83RT features a sealed metal enclosure, integrated cable and conduit clamping, removable Euroblock connector with loop-through, swing-open connector cover and seismic attachment. Additionally, the Sonance PS-C83RT is certified for UL 1480 and UL 2043.

Features & Benefits

Performance

- Class-leading sensitivity & sonic performance
- Exceptional off-axis response
- Heavy duty voice coil for longevity and reliability
- Full-fidelity transformer for uncompromised tonality
- Consistent voicing across product range

Aesthetics

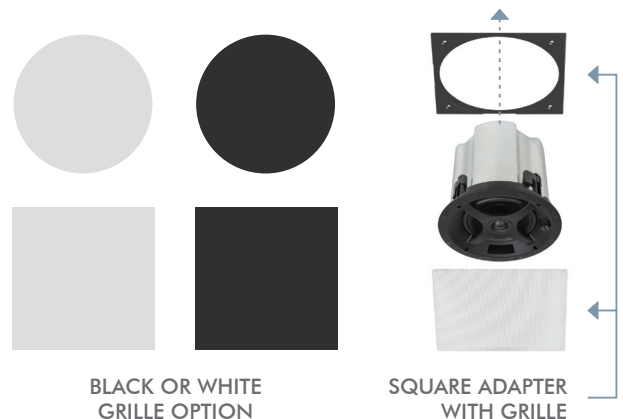
- Bezel-less design for clean and minimalistic aesthetic
- Optional Square Adapters to match light fixtures
- Optional black grilles in round or square

Installation

- Magnetic grille retention for fast installation and removal
- Finger-adjustable selector tap
- One-step simplified painting process
- Smallest in class form factor

Applications

- Boardrooms & Corporate Offices
- Shopping Malls, Retail Spaces & Showrooms
- Restaurants, Bars & Lounges
- Galleries & Museums
- Casinos, Convention Centers & Hotels
- Houses of Worship
- Educational Facilities



BLACK OR WHITE
GRILLE OPTION

SQUARE ADAPTER
WITH GRILLE

Specifications



PS-C83RT SKU# 40132

LOUDSPEAKER

Frequency Range (-10dB):	41Hz – 25kHz
Frequency Range (-3dB):	55Hz – 20kHz
Power Capacity:	160 Watts Continuous Program Power 80 Watts Continuous Pink Noise
Nominal Sensitivity:	91dB
Nominal Coverage Angle:	120 degrees conical coverage
Directivity Factor (Q):	7.6
Directivity (DI):	8.1dB
Rated Maximum SPL:	110dB @ 1 meter (3.3 feet) average, 116dB peak
Rated Impedance:	8 Ohms nominal, 6 Ohms minimum
Transformer Taps:	70V: 60W, 30W, 15W and 7.5W 100V: 60W, 30W and 15W
Crossover Point:	2750Hz
Overall Dimension:	11.06" Diameter x 9.84" Depth (281mm x 250mm)
Cut Out Dimension:	10.125" (257mm)
Net Weight:	13.41 lbs (6.08kg) each
Shipping Weight:	43.08 lbs (19.54kg) pair
Unit of Measure:	Pair
Grille:	Supplied with bezel-less white grille, black grille optional

TRANSDUCERS

LF Driver:	8" (203mm) Polypropylene Cone, Butyl Rubber Surround
HF Driver:	1" (25mm) Cloth Dome, Pivoting, Ferrofluid cooled

ENCLOSURE

Input Connectors:	Four pin Euroblock with loop output connections
Knockouts:	One, side mounted .75"
Safety Agency:	UL 1480, UL 2043, NFPA 90A, NFPA 70
Maximum Ceiling Thickness:	1.732" (44mm)
Suspension Points:	One, on top surface

Included Accessories

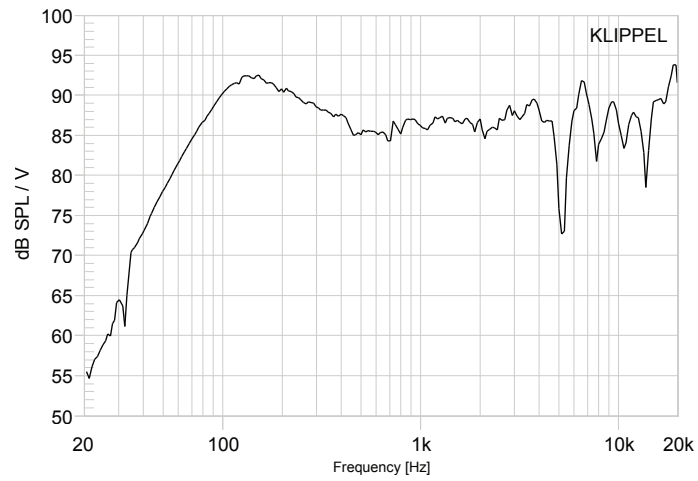
- C-Ring x 2
- Tile Support Rails x 4
- Cutout Template x 2
- Euroblock Connector x 2
- White Grille x 2

Optional Accessories

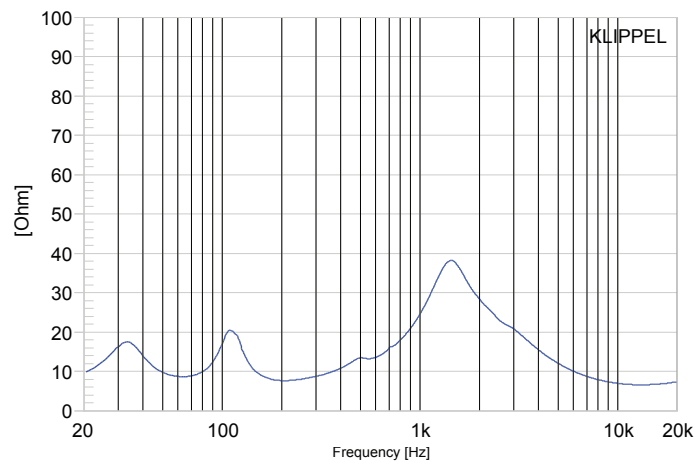
- Replacement Round Grille White (1 pair) | 40154
- Round Grille Black (1 pair) | 40157
- Square Adaptor w/ Grille White (5 pair) | 40160
- Square Adaptor w/ Grille White (1 pair) | 45160
- Square Adaptor w/ Grille Black (5 pair) | 40163
- Square Adaptor w/ Grille Black (1 pair) | 45163
- Flex Bracket (5 pair) | 92247
- Metal Pre-construction Bracket (5 pair) | 40125
- Tile Support Rails w/ C-Ring (1 pair) | 40174
- Replacement RotoLock Feet (Bag) | 40175

Performance Measurements

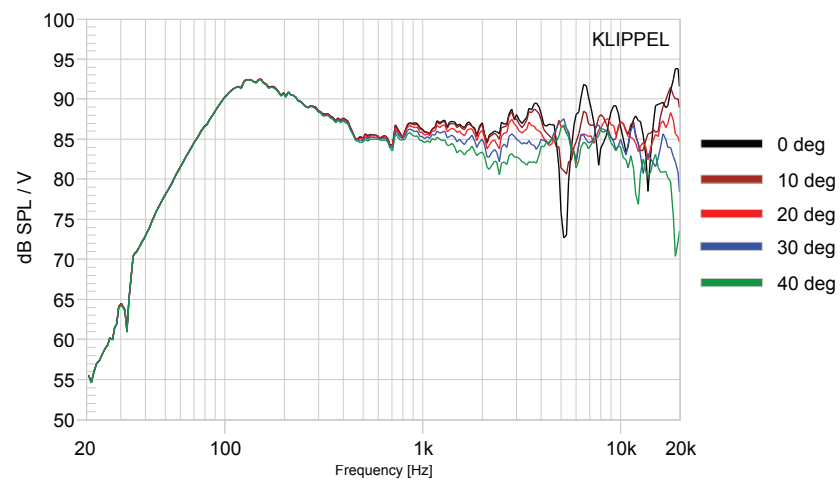
1 METER ON AXIS FREQUENCY RESPONSE



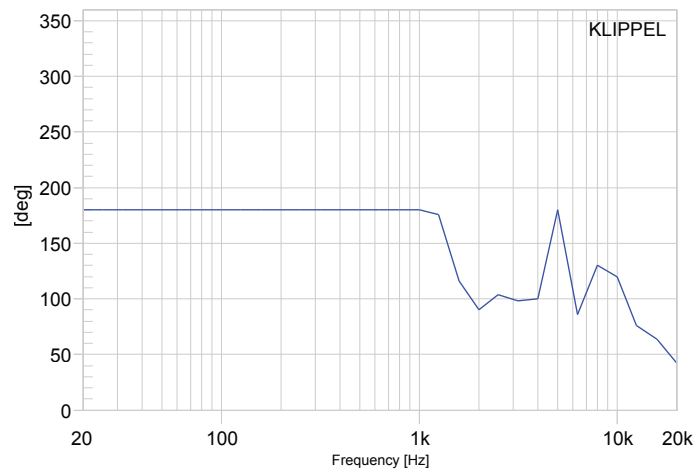
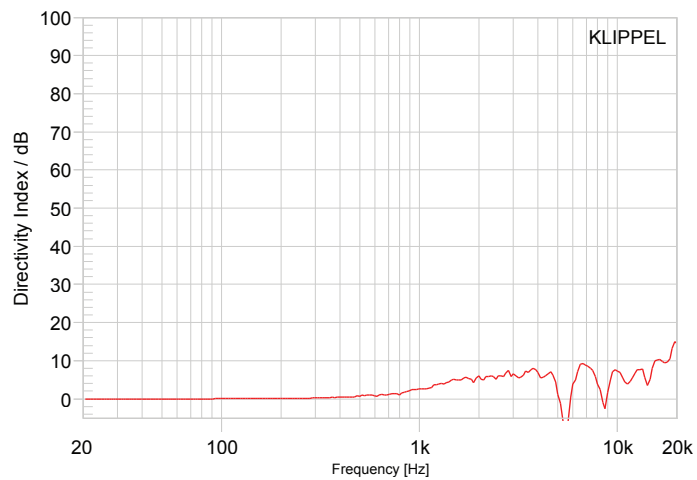
IMPEDANCE vs FREQUENCY



1 METER HORIZONTAL FREQUENCY RESPONSE

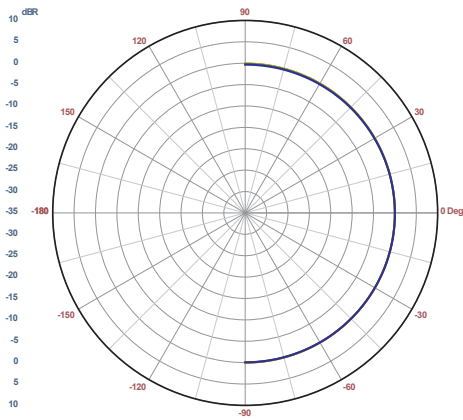


Performance Measurements

BEAMWIDTH vs FREQUENCY**DIRECTIVITY INDEX vs FREQUENCY**

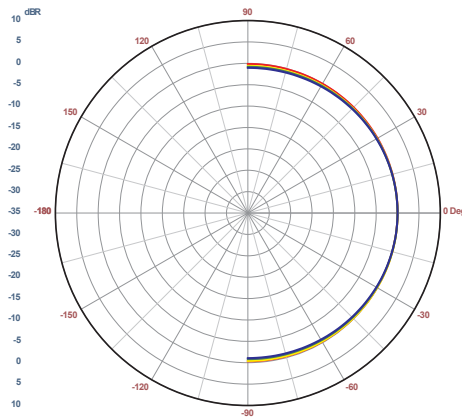
Polar Plots (1/3 Octave)

RATIO vs ANGLE



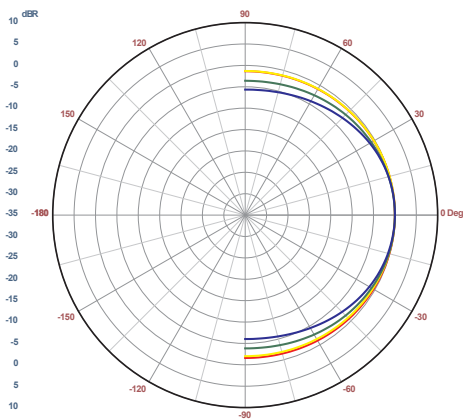
Curve	Freq	BW	Q	DI
Red	100.00	180	2.0	3.0
Yellow	125.00	180	2.0	3.0
Green	160.00	180	2.0	3.0
Blue	200.00	180	2.0	3.0

RATIO vs ANGLE



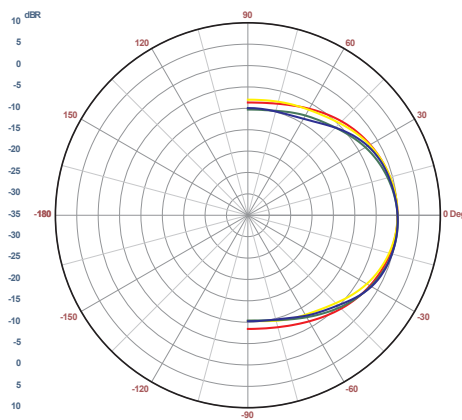
Curve	Freq	BW	Q	DI
Red	250.00	180	2.0	3.0
Yellow	315.00	180	2.0	3.0
Green	400.00	180	2.0	3.0
Blue	500.00	180	2.0	3.0

RATIO vs ANGLE



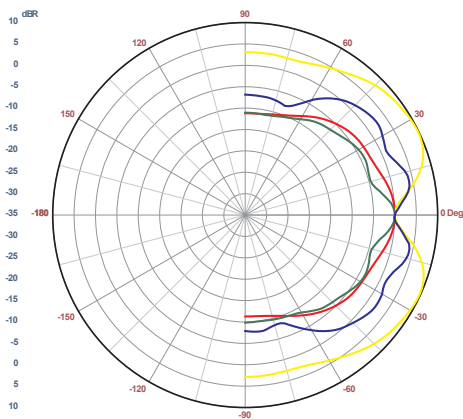
Curve	Freq	BW	Q	DI
Red	630.00	180	2.0	3.0
Yellow	800.00	180	2.0	3.0
Green	1,000K	180	2.0	3.0
Blue	1,250K	180	2.0	3.0

RATIO vs ANGLE



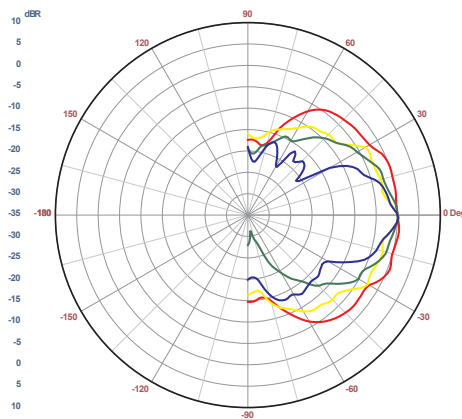
Curve	Freq	BW	Q	DI
Red	1,600K	115	3.1	5.0
Yellow	2,000K	98	3.7	5.6
Green	2,500K	96	3.7	5.7
Blue	3,150K	93	3.9	5.9

RATIO vs ANGLE



Curve	Freq	BW	Q	DI
Red	4,000K	100	3.6	5.6
Yellow	5,000K	180	2.0	3.0
Green	6,300K	82	4.4	6.4
Blue	8,000K	127	2.8	4.5

RATIO vs ANGLE



Curve	Freq	BW	Q	DI
Red	10,000K	116	3.1	4.9
Yellow	12,500K	69	5.2	7.2
Green	16,000K	64	5.7	7.5
Blue	20,000K	38	9.4	9.7

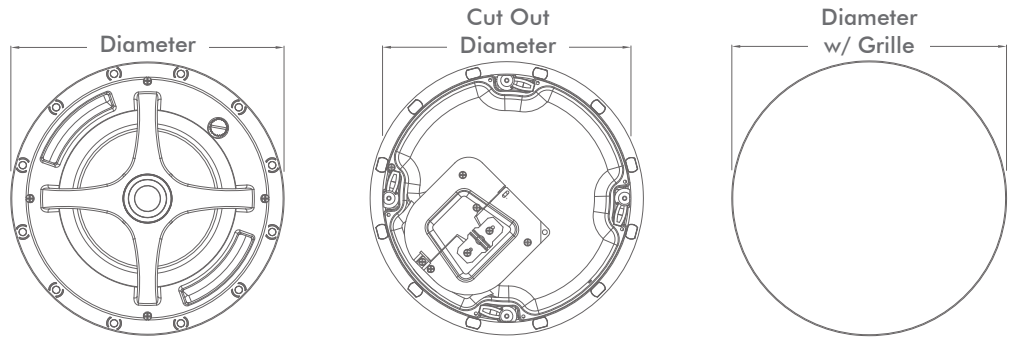
Dimensional Sketches Specifications

PS-C83RT Loudspeaker

Diameter: 11.06" (281mm)

Depth: 9.84" (250mm)

Cut Out Diameter: 10.125" (257mm)



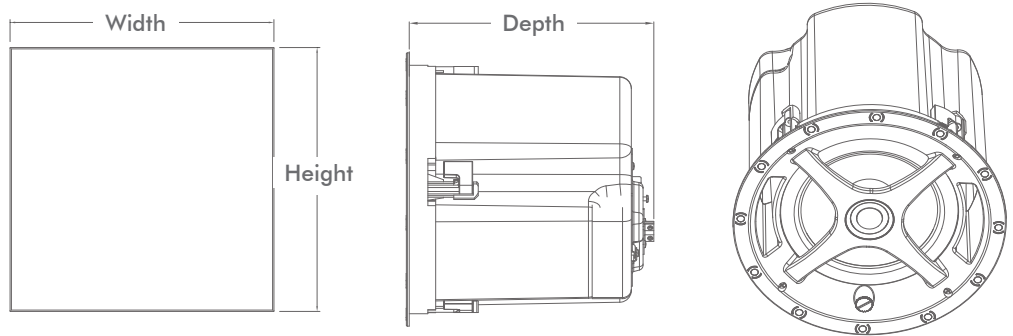
With Grille

Diameter: 11.06" (281mm)

With Square Adapter and Grille

Width: 11.14" (283mm)

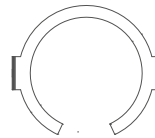
Height: 11.14" (283mm)



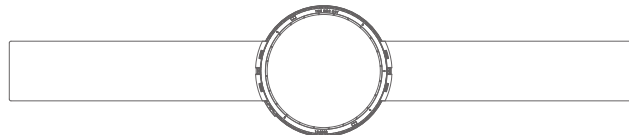
Tile Bridge



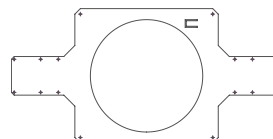
C-Ring



Flex Bracket



Metal Pre-construction Bracket



Architectural Specifications

The loudspeaker shall be of the two-way type comprising a single flush mount enclosure containing one 8" (203mm) polypropylene cone, butyl rubber surround low frequency transducer and one coaxially mounted 1" (25mm) cloth dome, pivoting, ferrofluid cooled high frequency transducer. It shall utilize a one-piece bezel-less grille design and an optional square grille adapter shall also be available if required. Frequency range shall be 55Hz – 20KHz (-3dB). Total power handling shall be 80 Watts continuous pink noise and 160 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 55Hz – 20KHz shall be 91dB. The unit shall be supplied with a line matching transformer suitable for 100 volt or 70 volt with a front mounted control allowing user selectable power taps of 60W, 30W, 15W, and 7.5W (70V) and an 8 Ohm bypass. The back shall be constructed from deep drawn steel. The baffle shall be ported and injection molded using fire rated ABS that meets UL 94V-0. The speaker shall be suitable

for use in air handling spaces per UL 2043, NFPA 90 and NFPA 70 S7232 as well as UL 1480, UL Rated signaling speaker. Wire shall be terminated in an enclosed area on the rear of the back can with a secondary knock-out. Strain relief shall be provided for wire. A seismic attachment shall be provided on the rear of the back can to allow additional support when necessary. The system shall include a support backing plate to reinforce the ceiling material and tile support rails which can all be installed from beneath the ceiling tile. External dimensions shall be 11.06" Diameter x 9.84" Depth (281mm x 250mm). The total enclosure shall weigh 10 lbs. (4.53 kg) per unit. It shall share consistent voicing with other form factors and sizes within its product family so as to provide continuity of sonic signature when combined within a project. The loudspeaker shall be the Sonance Professional Series PS-C83RT. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

Safety Agency Compliance

Sonance Professional Series In-Ceiling Speaker are compliant with:

UL 2043: Standard For Safety For Speakers for Fire Alarm, Emergency, and Commercial and Professional Use.

UL 1480: Standard For Safety For Speakers for Fire Alarm, Emergency, and Commercial and Professional Use.

NFPA 70: 2002 National Electrical Code

NFPA 90A: Installation of Air Conditioning and Ventilation Systems, Section 2-3.10.1(A)



Warranty, Remedy, Exclusions and Limitations (USA only)

Limited Warranty

Sonance warrants this product to the original purchaser to be free from defects in material and workmanship, under normal use and conditions, for a period of five (5) years from the date of original purchase as shown on the invoice.

The foregoing exclusive warranty gives you specific legal rights, and you may have other rights, which vary from state to state. This warranty applies exclusively to the original purchaser.

The exclusive warranty does not apply and is ineffective if:

1. The invoice fails to establish that the product was purchased from an authorized Sonance dealer or distributor;
2. The product was subjected to misuse, neglect, accident, or improper installation. (Damage to the product was caused by accident, abuse or misuse);
3. The product was modified, altered, or repaired by unauthorized personnel; or
4. The unit was not used as described in the installation and operating instructions.

Exclusive Remedy

Sonance agrees, at its option during the five (5) year warranty period, to repair any defect in material or workmanship or to furnish an equal product in exchange without charge to the purchaser, subject to the verification of the defect and proof of the date of purchase.

Warranty Exclusions and Damage Limitations

The exclusive warranty set forth above is in lieu of all other warranties, express or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose, which are expressly disclaimed. In no event, and under no circumstances or legal or equitable theory, shall Sonance be liable or responsible for any direct or indirect damages, consequential damages, loss, or injury, including without limitation, personal injury, bodily injury, property damage, emotional distress, death, real property or personal property damage, business interruption, costs of delay or lost profits arising from the product, whether based upon warranty, contract, negligence, strict product liability or other theory.

Associated Products

In-Ceiling Speakers

PS-C43RT In-Ceiling Speaker	40130
PS-C63RT In-Ceiling Speaker	40131
PS-C83RWT In-Ceiling Speaker	40133

Pendant Speakers

PS-P43T Pendant Speaker White	40134
PS-P63T Pendant Speaker White	40135
PS-P83T Pendant Speaker White	40136
PS-P83WT Pendant Speaker White	40137
PS-P43T Pendant Speaker Black	40138
PS-P63T Pendant Speaker Black	40139
PS-P83T Pendant Speaker Black	40140
PS-P83WT Pendant Speaker Black	40141

Surface Mount Speakers

PS-S43T Surface Mount Speaker White	40142
PS-S53T Surface Mount Speaker White	40143
PS-S63T Surface Mount Speaker White	40144
PS-S83T Surface Mount Speaker White	40145
PS-S83WT Surface Mount Speaker White	40146
PS-S43T Surface Mount Speaker Black	40147
PS-S53T Surface Mount Speaker Black	40148
PS-S63T Surface Mount Speaker Black	40149
PS-S83T Surface Mount Speaker Black	40150
PS-S83WT Surface Mount Speaker Black	40151

DSP Amplifier

Sonamp DSP 2-750 Amplifier	93095
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Due to continuous product improvement, all features and specifications are subject to change without notice.
For the latest Sonance product specification information visit our website: www.sonance.com

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(949) 492-7777 • FAX: (949) 361-5151 • Technical Support: (949) 492-7777
www.sonance.com/professionalseries

02.22.18

SONANCE

OMNI-6T

OUTDOOR OMNIDIRECTIONAL 70V/100V 8 OHM LOUDSPEAKER

The Sonance OMNI-6T omnidirectional outdoor speaker provides true 360-degree audio coverage in the exceptional Sonance performance the industry has come to expect for both commercial and residential outdoor systems.

With a 6.5" (165mm) woofer and the 60W Sonance Laminated Core 70V/100V Transformer, the Sonance OMNI-6T is a great complement to Sonance Landscape Series speakers and subwoofers or build a system comprised entirely of Sonance OMNI-6T speakers for the ideal solution for spaces requiring omnidirectional coverage like resort gardens, hotel pool areas, theme parks, outdoor shopping malls or open residential backyards.



FEATURES AND BENEFITS

- Four x 1.25" (32mm) Wide-Band Drivers: Best-in-class midrange and treble
- 6.5" (165mm) High Excursion Woofer: Exceptional bass response
- Textured brown enclosure: Designed to blend into ground cover, garden beds and foliage
- Sonance Laminated Core Technology transformer (SLCT): Full-fidelity performance in 70V/100V
- Buriabale design: Can be buried up to 8" (203mm) deep, leaving only 6" (152mm) visible above-ground
- Weatherproof construction: Design to handle extremes temperature, moisture and salt air

APPLICATIONS

- Outdoor Shopping Malls
- Resort Gardens
- Theme Parks
- Hotel Pool Areas
- Outdoor Dining Areas
- Open Residential Backyards
- Sporting Facilities
- Marinas

SONANCE

TECHNICAL SPECIFICATIONS

Frequency Range (-10dB)	38Hz - 25kHz
Frequency Range (-3dB)	60Hz - 20kHz
Power Capacity	120 Watts Continuous Program Power, 60 Watts Continuous Pink Noise
Nominal Sensitivity	88 dB
Nominal Coverage Angle	360 degrees horizontal, 160 degrees vertical
Directivity Factor (Q)	2.3
Directivity Index (DI)	3.6 dB
Rated Maximum SPL	107dB @ 1 meter (3.3 feet) average, 113dB peak
Rated Impedance	8 ohms nominal, 6 ohms minimum
Transformer Taps	80W, 40W, 20W and (10W @70V)
Crossover Point	500Hz
LF Driver	6.5" (165mm) Polypropylene Cone, Santoprene Rubber Surround
Wide Band Driver	Four 1.25" (32mm) EPDM dome, Ferrofluid cooled
Input Connectors	Flying Leads
Environmental	Conforms to Mil Spec 810 for humidity, IEC 529, IP-66
Included Accessories	Silicone filled wire nuts
Dimension HxDia	14.5"x 12" (368mm x 305mm)

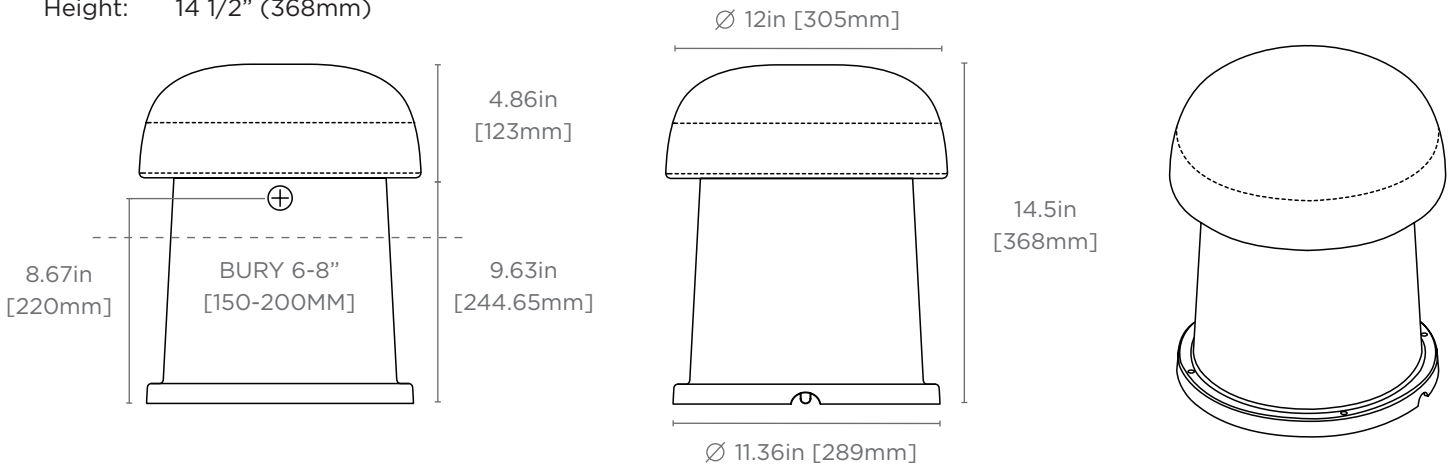


OMNI-6T
SKU# 40196

DIMENSIONAL SKETCHES SPECIFICATIONS

OMNI-6T

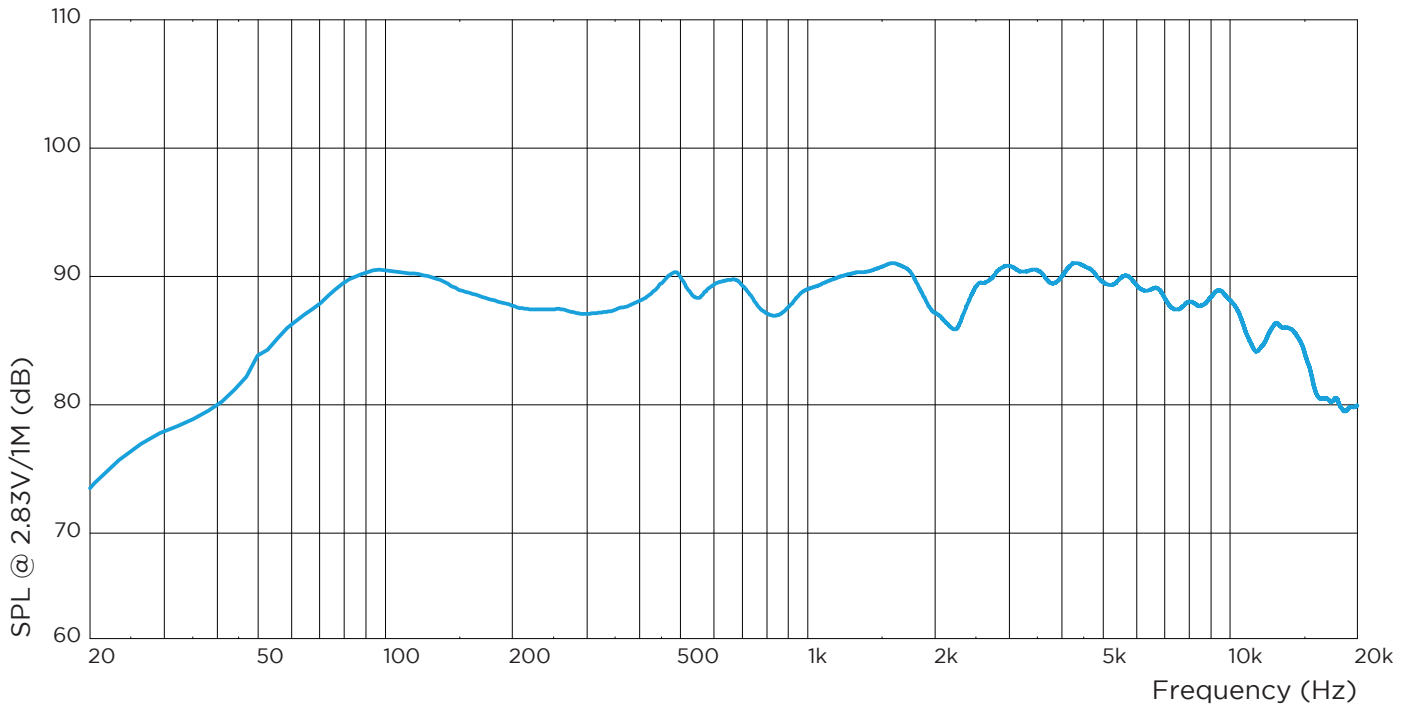
Diameter: 12" (305mm)
Height: 14 1/2" (368mm)



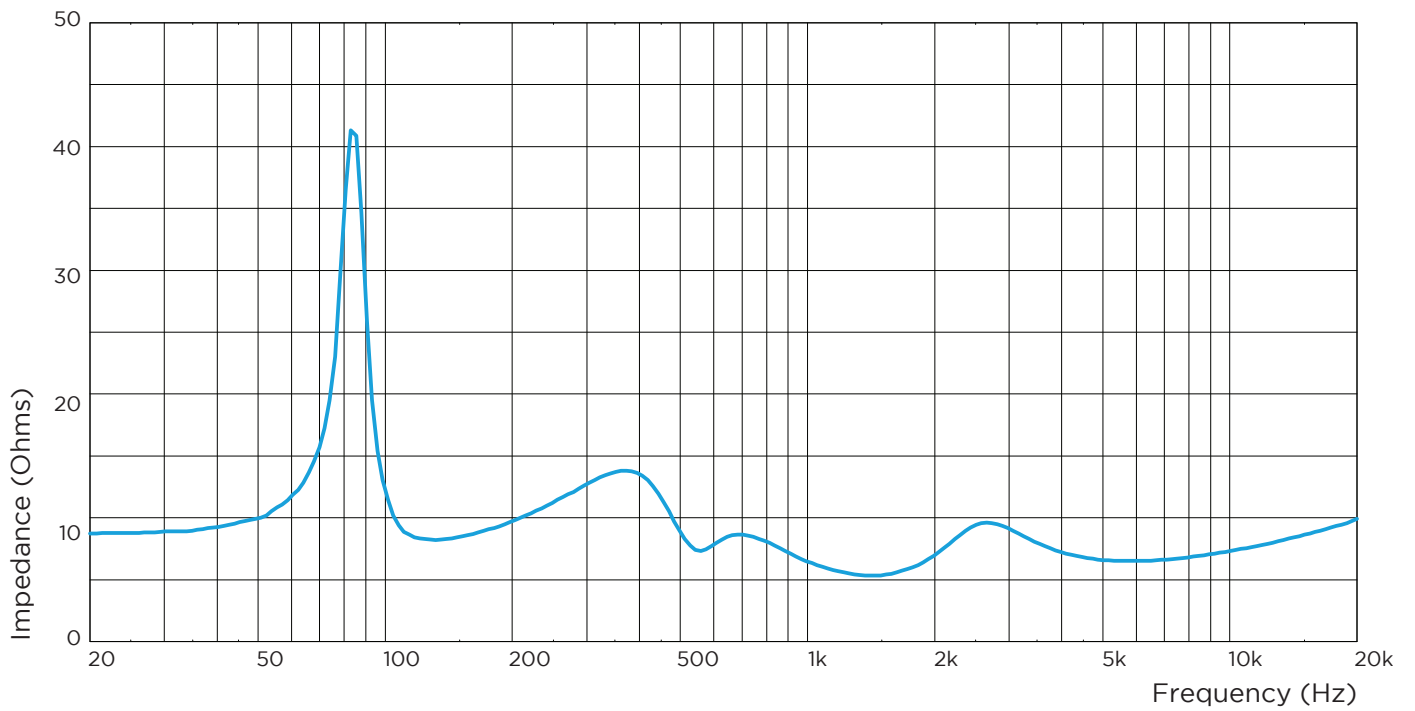
SONANCE

PERFORMANCE MEASUREMENTS

ON AXIS RESPONSE



IMPEDANCE



SONANCE

ASSOCIATED PRODUCTS

IN-CEILING SPEAKERS

PS-C43RT In-Ceiling Speaker	40130
PS-C63RT In-Ceiling Speaker	40131
PS-C83RT In-Ceiling Speaker	40132
PS-C83RWT In-Ceiling Speaker	40133

PENDANT SPEAKERS

PS-P43T Pendant Speaker White	40134
PS-P63T Pendant Speaker White	40135
PS-P83T Pendant Speaker White	40136
PS-P83WT Pendant Speaker White	40137
PS-P43T Pendant Speaker Black	40138
PS-P63T Pendant Speaker Black	40139
PS-P83T Pendant Speaker Black	40140
PS-P83WT Pendant Speaker Black	40141

SONANCE LANDSCAPE SERIES

LS4T SAT Satellite Speaker	93369
LS6T SAT Satellite Speaker	93370
LS12T SUB Subwoofer	93371
LS15T SUB Subwoofer	93372
HS12T SUB Subwoofer	93373

SURFACE MOUNT SPEAKERS

PS-S43T Surface Mount Speaker White	40142
PS-S53T Surface Mount Speaker White	40143
PS-S63T Surface Mount Speaker White	40144
PS-S83WT Surface Mount Speaker White	40146
PS-S43T Surface Mount Speaker Black	40147
PS-S53T Surface Mount Speaker Black	40148
PS-S63T Surface Mount Speaker Black	40149
PS-S83WT Surface Mount Speaker Black	40151

DSP AMPLIFIER

Sonamp DSP 2-750 MKII Amplifier	93095
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SUBWOOFER

PS-S210SUBT Subwoofer	40142
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TRANSFORMER

PS-S60XF Transformer	40195
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ARCHITECTURAL SPECIFICATIONS

The loudspeaker shall deliver 360 degrees horizontal, 160 degrees vertical coverage and consist of a 6.5" (165mm) Polypropylene cone, Santoprene rubber surround Woofer and 4 x 1.25" (32mm) EPDM dome, Ferrofluid cooled Wide Band Drivers, with a crossover point of 500Hz. Frequency range shall be 60Hz - 20kHz (-3dB). Total power handling shall be 120 Watts continuous program power, 60 Watts continuous pink noise. Nominal sensitivity should be rated at 88dB, and it should have a rated maximum SPL of 107dB @ 1 meter (3.3 feet) average, 113dB peak. The unit shall be supplied with a line-matching transformer suitable for 100 volt or 70 volt with a side-mounted control allowing user selectable power taps of 80W, 40W, 20W and (10W @70V) and an 8 Ohm bypass. The loudspeaker should be finished in a dark brown color and shall conform to Mil Spec 810 for humidity, salt spray, temperature and UV, have IEC 529 and an IP-66 waterproof rating. The loudspeaker shall be the Sonance Omni-6T. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

TECHNICAL ASSISTANCE AND SERVICE

The Technical Assistance Department at Sonance is available at (949) 492-7777 to answer any questions concerning the operation and installation of your speakers between the hours of 7:00 AM and 5:00 PM Pacific time, Monday through Friday, except holidays.

In the event your unit should need repair or service, you may return the unit to your authorized dealer or use the following guidelines:

PLEASE KEEP ORIGINAL PACKAGING WHEN POSSIBLE.

1. Be prepared to state the model number and / or serial number, date of purchase, and dealer's name and address when calling.
2. Contact Sonance directly at (949) 492-7777 or at www.sonance.com. **YOU MUST HAVE PRIOR AUTHORIZATION TO RETURN YOUR UNIT.**
3. If you are returning the product directly to Sonance, call us to obtain a return authorization number before shipping.
4. Ship the product via United Parcel Service, Federal Express, or other package delivery service. Please do not use the U.S. Postal Service.
5. Include the return authorization number on the shipping label.
6. Ship to:Attn: Quality Assurance Department,
RMA#(include RMA number here)
Sonance
11016 Mulberry Ave., Suite B
Fontana, CA 92337

SONANCE

LIMITED FIVE (5) YEAR WARRANTY

Sonance warrants to the first end-user purchaser that this Sonance-brand product (“Product”), when purchased from an authorized Sonance Dealer/Distributor, will be free from defective workmanship and materials for the period stated below. Sonance will at its option and expense during the warranty period, either repair the defect or replace the Product with a new or remanufactured Product or a reasonable equivalent.

EXCLUSIONS

TO THE EXTENT PERMITTED BY LAW, THE WARRANTY SET FORTH ABOVE IS IN LIEU OF, AND EXCLUSIVE OF, ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IS THE SOLE AND EXCLUSIVE WARRANTY PROVIDED BY SONANCE. ALL OTHER EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY, IMPLIED WARRANTY OF FITNESS FOR USE, AND IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE ARE SPECIFICALLY EXCLUDED.

No one is authorized to make or modify any warranties on behalf of Sonance. The warranty stated above is the sole and exclusive remedy and Sonance’s performance shall constitute full and final satisfaction of all obligations, liabilities and claims with respect to the Product.

IN ANY EVENT, SONANCE SHALL NOT BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL, ECONOMIC, PROPERTY, BODILY INJURY, OR PERSONAL INJURY DAMAGES ARISING FROM THE PRODUCT, ANY BREACH OF THIS WARRANTY OR OTHERWISE.

This warranty statement gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion of implied warranties or limitations of remedies, so the above exclusions and limitations may not apply. If your state does not allow disclaimer of implied warranties, the duration of such implied warranties is limited to period of Sonance’s express warranty. Your Product Model and Description: OMNI-6T. Warranty Period for this Product: Five (5) years from the date on the original sales receipt or invoice or other satisfactory proof of purchase. Additional Limitations and Exclusions from Warranty Coverage: The warranty described above is non-transferable, applies only to the initial installation of the Product, does not include installation of any repaired or replaced Product, does not include damage to allied or associated equipment which may result for any reason from use with this Product, and does not include labor or parts caused by accident, disaster, negligence, improper installation, misuse (e.g. overdriving the amplifier or speaker, excessive heat, cold or humidity), or from service or repair which has not been authorized by Sonance. Obtaining Authorized Service: To qualify for the warranty, you must contact your authorized Sonance Dealer/Installer or call Sonance Customer Service at (949) 492-7777 within the warranty period, must obtain a return merchandise number (RMA), and must deliver the Product to Sonance shipping prepaid during the warranty period, together with the original sales receipt, or invoice or other satisfactory proof of purchase.

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04.23.2020

PROFESSIONAL SERIES

SURFACE MOUNT SPEAKER PS-S83T



Introducing the Sonance Professional Series

From Sonance, the company that created the architectural audio category comes a range of professional loudspeakers that set a new benchmark in sound quality and aesthetics for commercial environments.

Sonance Professional Series includes a range of In-Ceiling, Pendant and Surface Mount Speakers that deliver unequalled fidelity, extremely low distortion, wide dispersion and a smooth power response. The range also shares consistent voicing, ensuring seamless sonic integration when used together throughout a space.

Sonance Professional Series PS-S83T Surface-Mount Speaker features the Patented FastMount® bracket and front cable connection to speed up the installation process and provide a clean appearance.

The IPX4 rated construction features a weatherproof high-impact, extreme temperature resistant cabinet and corrosion-proof powder coated aluminum grille, lending itself perfectly in both indoor and outdoor applications.

A high-excursion 8" polypropylene woofer delivers effortless low bass extension, even at high volumes, while the chambered 1" soft dome tweeter provides accurate high-end detail and exceptional coverage.

Additionally, the Sonance PS-S83T is certified for is certified for UL 1480 (UEAY) and 2239.

Available in either black or white (paintable).



Features & Benefits

Performance

- Class-leading sensitivity & sonic performance
- Exceptional off-axis response
- Heavy-duty voice coil for longevity and reliability
- Full-fidelity transformer for uncompromised 70V/100V tonality
- Consistent voicing across product range

Aesthetics

- Clean and minimalistic design
- Available in black or white (paintable)

Installation

- FastMount® bracket system for easy installation
- Front-located cable connector and tap selector
- Connector and tap selector cover
- Corrosion-resistant powder coated aluminum grille

Applications

- Shopping Malls, Retail Spaces & Showrooms
- Restaurants, Bars & Lounges
- Galleries, Museums & Amusement Parks
- Casinos, Convention Centers & Hotels
- Houses of Worship & Educational Facilities
- Sporting Facilities
- Marinas, Piers & Wharfs

Specifications



PS-S83T **PS-S83T**
WHITE **BLACK**

LOUDSPEAKER

Frequency Range (-10dB):	41Hz – 25kHz
Frequency Range (-3dB):	55Hz – 20kHz
Power Capacity:	160 Watts Continuous Program Power 80 Watts Continuous Pink Noise
Nominal Sensitivity:	90dB
Nominal Coverage Angle:	90 degrees x 90 degrees coverage
Directivity Factor (Q):	7.6
Directivity (DI):	8.1dB
Rated Maximum SPL:	110dB @ 1 meter (3.3 feet) average, 116dB peak
Rated Impedance:	8 Ohms nominal, 6 Ohms minimum
Transformer Taps:	70V: 60W, 30W, 15W and 7.5W 100V: 60W, 30W and 15W
Crossover Point:	2750Hz
Overall Dimension:	14.02" Height x 9.01" Width x 8.58" Depth (356mm x 229mm x 218mm)
Net Weight:	14.72 lbs (6.68kg) each
Shipping Weight:	42.23 lbs (19.16kg) pair
Unit of Measure:	Pair
Color:	Black or White
Grille:	Powder Coated Aluminum Friction Fit

TRANSDUCERS

LF Driver:	8" (203mm) Polypropylene Cone, Butyl Rubber Surround
HF Driver:	1" (25mm) Cloth Dome, Ferrofluid cooled

ENCLOSURE

Input Connectors:	Front-mounted four pin, Euroblock with loop output connections
Safety Agency:	UL 1480, UL 2239, NFPA 70
Mounting Bracket:	U-Bracket with Sonance FastMount
Environmental & UV:	Conforms to MIL-STD-810 for humidity, salt spray, temperature, IEC 529 IPX4 splash-proof rating

Included Accessories

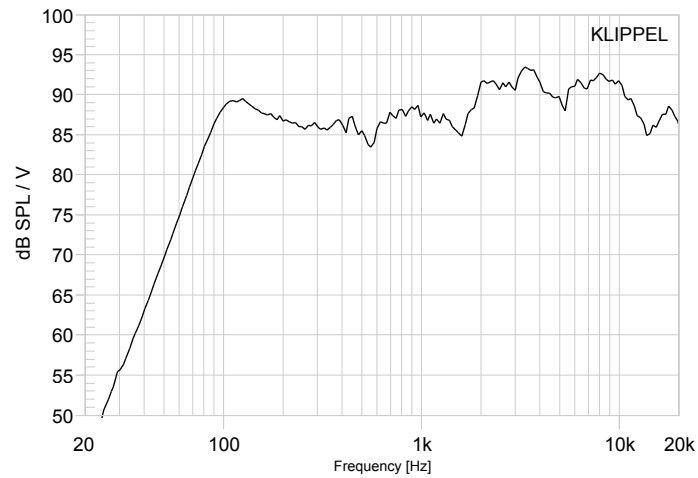
- Euroblock Connector x 2
- FastMount Bracket x 2
- Terminal Cover x 2
- Grille x 2

Optional Accessories

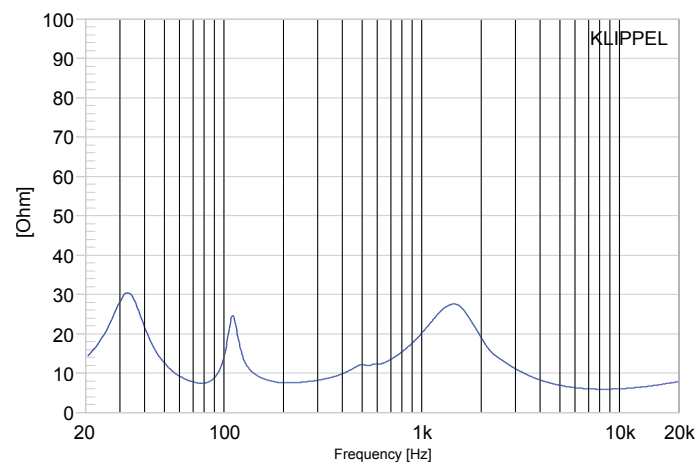
- Replacement Grille White (pair) | 93166
- Replacement Grille Black (pair) | 93167

Performance Measurements

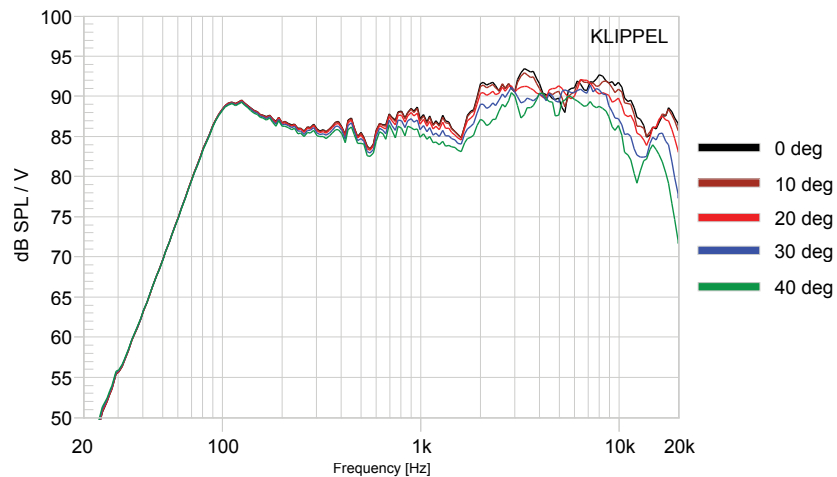
1 METER ON AXIS FREQUENCY RESPONSE



IMPEDANCE vs FREQUENCY

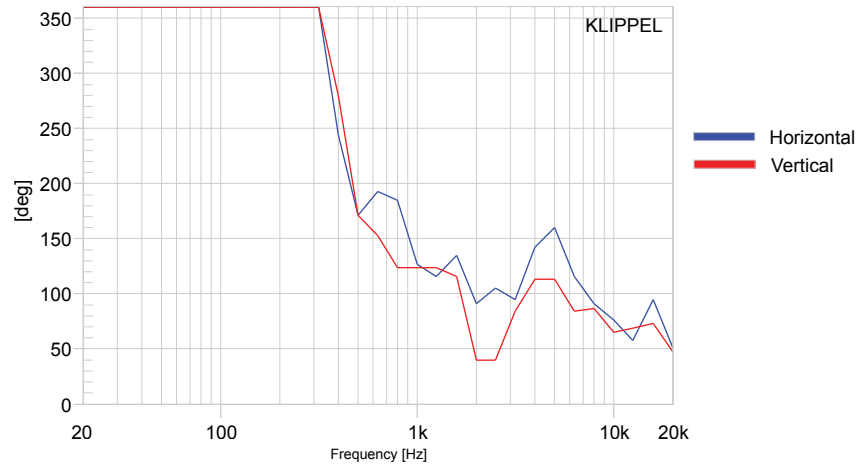


1 METER HORIZONTAL FREQUENCY RESPONSE

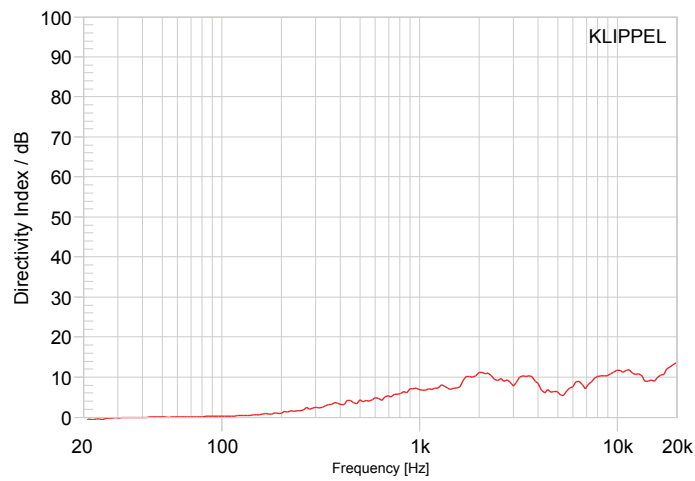


Performance Measurements

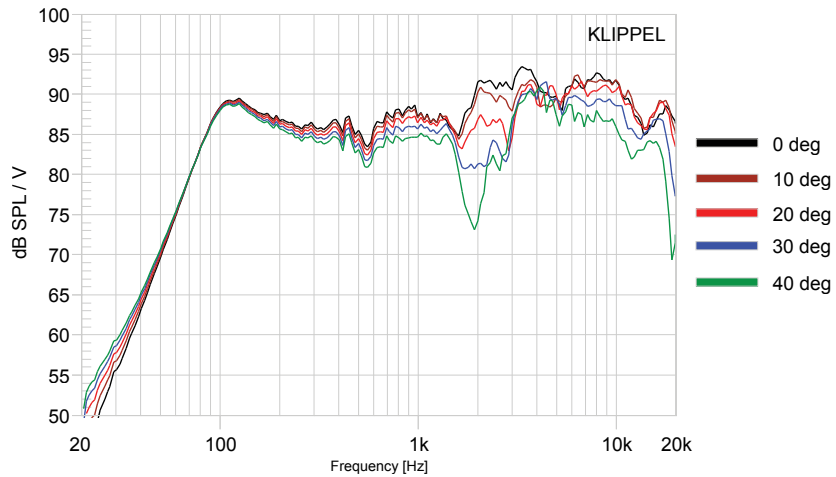
BEAMWIDTH vs FREQUENCY



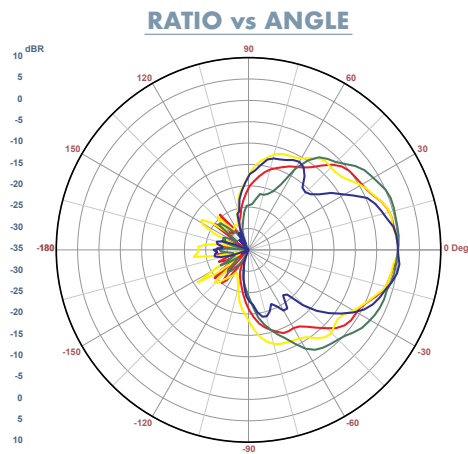
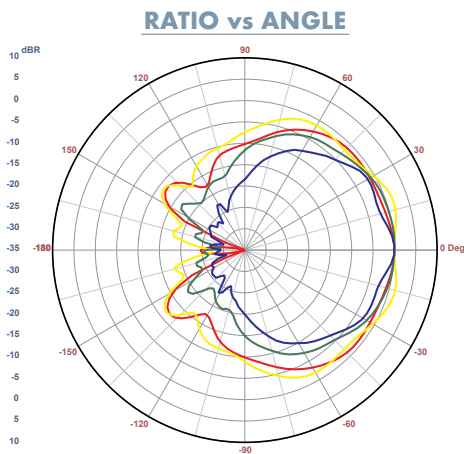
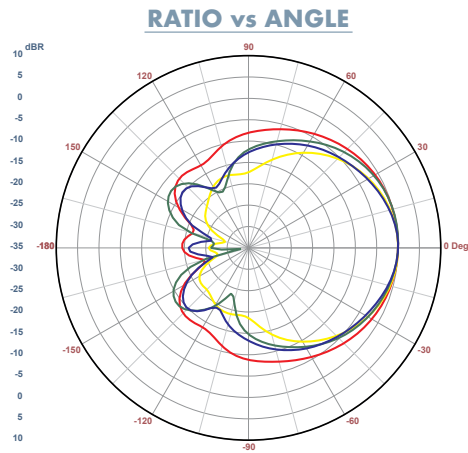
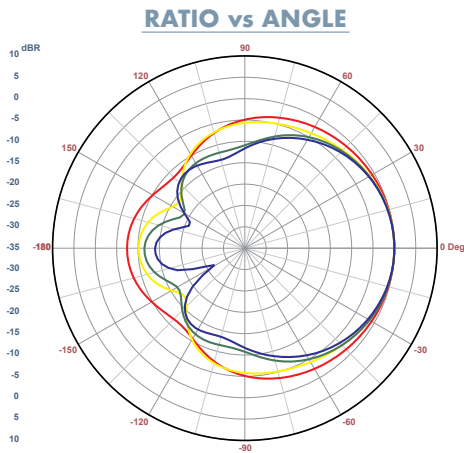
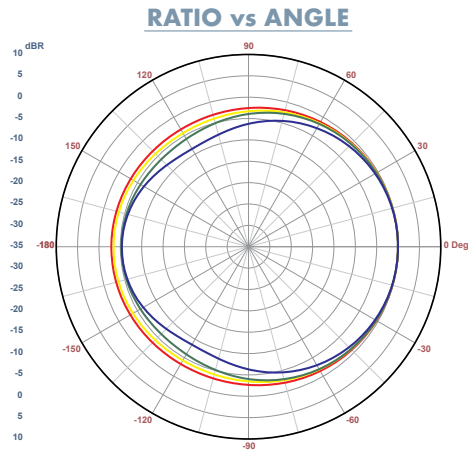
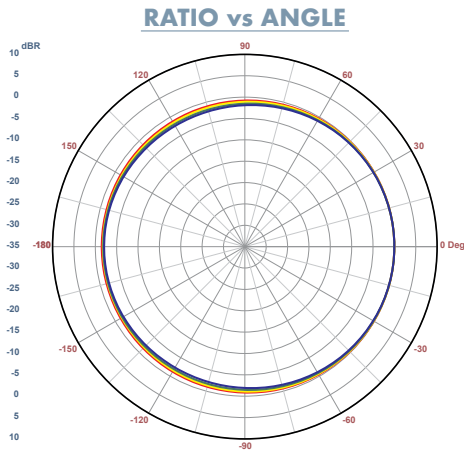
DIRECTIVITY INDEX vs FREQUENCY



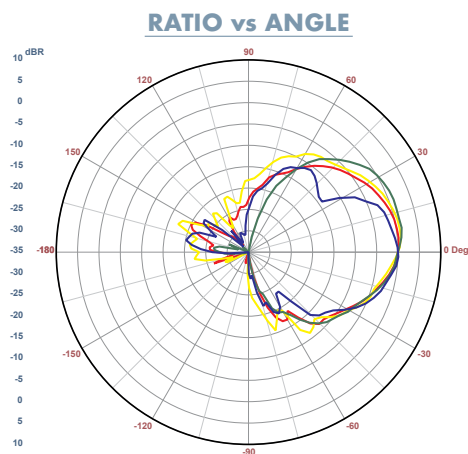
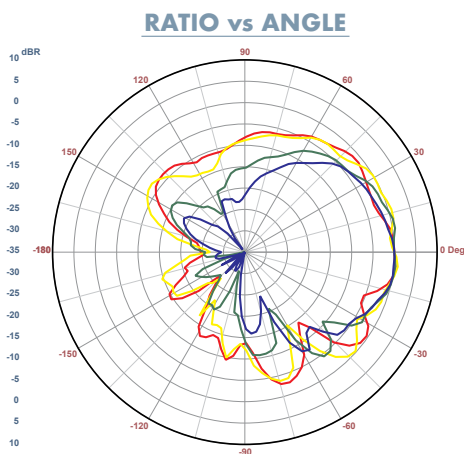
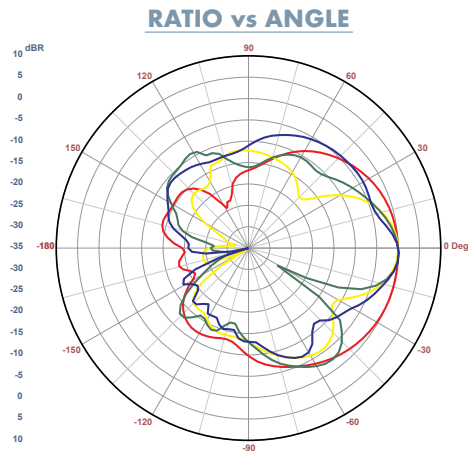
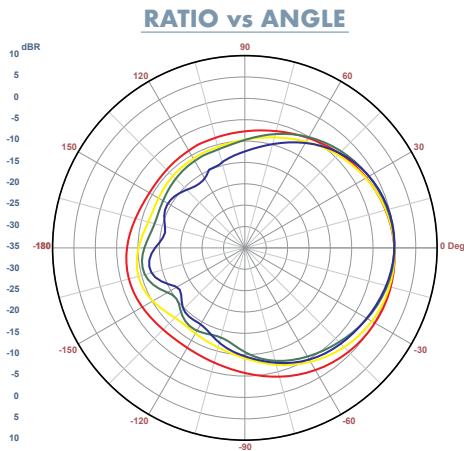
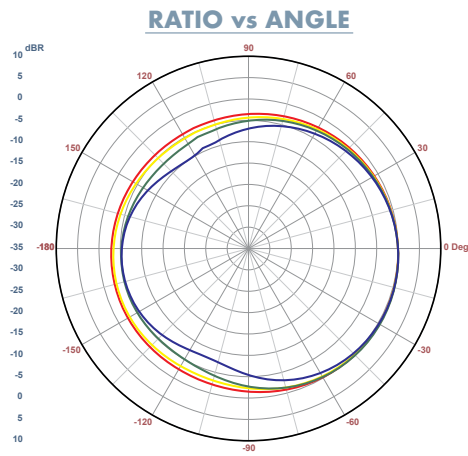
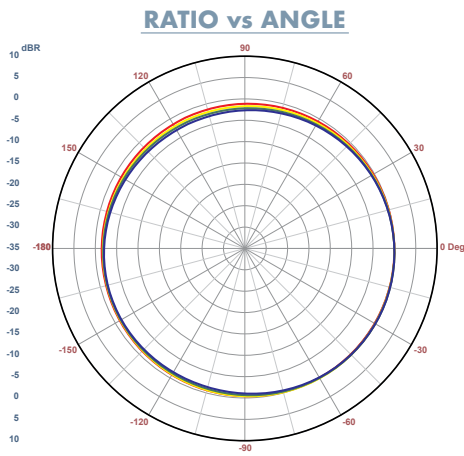
1 METER VERTICAL FREQUENCY RESPONSE



Polar Plots (1/3 Octave)



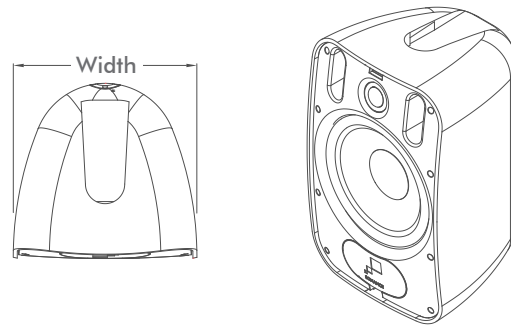
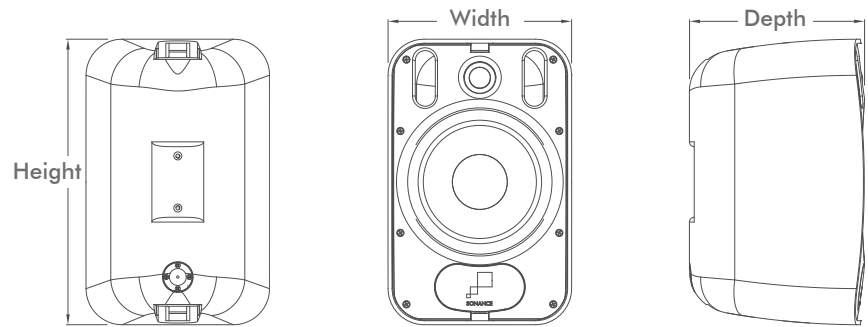
Polar Plots (1/3 Octave)



Dimensional Sketches Specifications

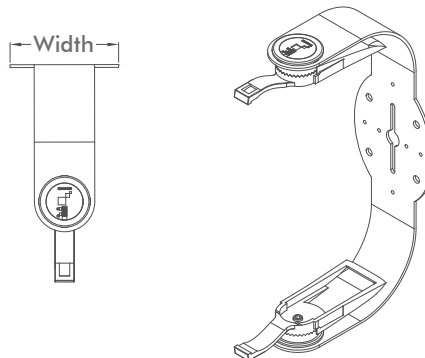
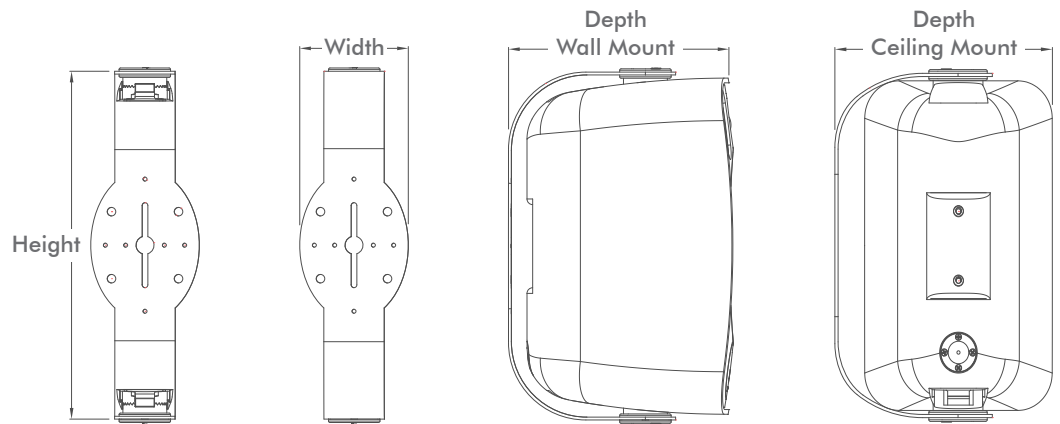
PS-S83T Loudspeaker

Height: 14.02" (356mm)
 Width: 9.01" (229mm)
 Depth: 8.58" (218mm)



S8 Mounting Bracket

Height: 14.528" (369mm)
 Width: 4.527" (115mm)
 Depth
 Wall Mount: 9.37" (238mm)
 Depth
 Ceiling Mount: 10.315" (262mm)



Architectural Specifications

The loudspeaker shall be of the two-way type comprising a single surface-mount injection-molded ABS enclosure containing one 8" (203mm) polypropylene cone, butyl rubber surround low frequency transducer and one coaxially mounted 1" (25mm) cloth dome, chambered ferrofluid cooled high frequency transducer. It shall utilize a powder coated corrosion-resistant aluminum grille with friction-fit. Frequency range shall be 55Hz – 20KHz (-3dB). Total power handling shall be 80 Watts continuous pink noise and 160 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 55Hz – 20KHz shall be 90dB. The unit shall be supplied with a line-matching transformer suitable for 100 volt or 70 volt with a front-mounted control allowing user selectable power taps of 60W, 30W, 15W, and 7.5W (70V) and an 8 Ohm bypass. The speaker shall include a FastMount bracket that allows for a full 180° of pivot while keeping

the speaker less than 1" from the mounting surface. Wire shall be terminated on the front of the enclosure via a four-pin Euroblock connector with loop-through and fed through a Protected Access Connection Terminal. The system shall be certified for UL 1480 (UEAY) and UL 2239 and conform to MIL-STD-810 for humidity, salt spray, temperature and UV IEC 529 and meet or exceed an IPX4 splash proof rating. External dimensions shall be 14.02" Height x 9.01" Width x 8.58" Depth (356mm x 229mm x 218mm). The total enclosure shall weigh 10 lbs. (4.53 kg) per unit. It shall share consistent voicing with other form factors and sizes within its product family so as to provide continuity of sonic signature when combined within a project. The loudspeaker shall be the Sonance Professional Series PS-S83T. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

Safety Agency Compliance

Sonance Professional Series In-Ceiling Speaker are compliant with:

UL 1480 (UEAY): Standard For Safety For Speakers for Fire Alarm, Emergency, and Commercial and Professional Use.

NFPA 70: 2002 National Electrical Code

ENVIRONMENTAL AND UV: Conforms to Mil Spec 810 for humidity, salt spray, temperature, IEC 529 IP-X4 splash-proof rating.



Warranty, Remedy, Exclusions and Limitations (USA only)

Limited Warranty

Sonance warrants this product to the original purchaser to be free from defects in material and workmanship, under normal use and conditions, for a period of five (5) years from the date of original purchase as shown on the invoice.

The foregoing exclusive warranty gives you specific legal rights, and you may have other rights, which vary from state to state. This warranty applies exclusively to the original purchaser.

The exclusive warranty does not apply and is ineffective if:

1. The invoice fails to establish that the product was purchased from an authorized Sonance dealer or distributor;
2. The product was subjected to misuse, neglect, accident, or improper installation. (Damage to the product was caused by accident, abuse or misuse);
3. The product was modified, altered, or repaired by unauthorized personnel; or
4. The unit was not used as described in the installation and operating instructions.

Exclusive Remedy

Sonance agrees, at its option during the five (5) year warranty period, to repair any defect in material or workmanship or to furnish an equal product in exchange without charge to the purchaser, subject to the verification of the defect and proof of the date of purchase.

Warranty Exclusions and Damage Limitations

The exclusive warranty set forth above is in lieu of all other warranties, express or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose, which are expressly disclaimed. In no event, and under no circumstances or legal or equitable theory, shall Sonance be liable or responsible for any direct or indirect damages, consequential damages, loss, or injury, including without limitation, personal injury, bodily injury, property damage, emotional distress, death, real property or personal property damage, business interruption, costs of delay or lost profits arising from the product, whether based upon warranty, contract, negligence, strict product liability or other theory.

Associated Products

In-Ceiling Speakers

PS-C43RT In-Ceiling Speaker	40130
PS-C63RT In-Ceiling Speaker	40131
PS-C83RT In-Ceiling Speaker	40132
PS-C83RWT In-Ceiling Speaker	40133

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PS-P83WT Pendant Speaker White	40137
PS-P43T Pendant Speaker Black	40138
PS-P63T Pendant Speaker Black	40139
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PS-S83WT Surface Mount Speaker White	40146
PS-S43T Surface Mount Speaker Black	40147
PS-S53T Surface Mount Speaker Black	40148
PS-S63T Surface Mount Speaker Black	40149
PS-S83WT Surface Mount Speaker Black	40151

DSP Amplifier

Sonamp DSP 2-750 Amplifier	93095
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Due to continuous product improvement, all features and specifications are subject to change without notice.
For the latest Sonance product specification information visit our website: www.sonance.com

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(949) 492-7777 • FAX: (949) 361-5151 • Technical Support: (949) 492-7777
www.sonance.com/professionalseries

10.04.17

PROFESSIONAL SERIES

SURFACE MOUNT SPEAKER PS-S63T



Introducing the Sonance Professional Series

From Sonance, the company that created the architectural audio category comes a range of professional loudspeakers that set a new benchmark in sound quality and aesthetics for commercial environments.

Sonance Professional Series includes a range of In-Ceiling, Pendant and Surface Mount Speakers that deliver unequalled fidelity, extremely low distortion, wide dispersion and a smooth power response. The range also shares consistent voicing, ensuring seamless sonic integration when used together throughout a space.

Sonance Professional Series PS-S63T Surface-Mount Speaker features the Patented FastMount® bracket and front cable connection to speed up the installation process and provide a clean appearance.

The IPX4 rated construction features a weatherproof high-impact, extreme temperature resistant cabinet and corrosion-proof powder coated aluminum grille, lending itself perfectly in both indoor and outdoor applications.

A high-excursion 6.5" polypropylene woofer delivers effortless low bass extension, even at high volumes, while the chambered 1" soft dome tweeter provides accurate high-end detail and exceptional coverage.

Additionally, the Sonance PS-S63T is certified for is certified for UL 1480 (UEAY) and 2239.

Available in either black or white (paintable).

Features & Benefits

Performance

- Class-leading sensitivity & sonic performance
- Exceptional off-axis response
- Heavy-duty voice coil for longevity and reliability
- Full-fidelity transformer for uncompromised 70V/100V tonality
- Consistent voicing across product range

Aesthetics

- Clean and minimalistic design
- Available in black or white (paintable)

Installation

- FastMount® bracket system for easy installation
- Front-located cable connector and tap selector
- Connector and tap selector cover
- Corrosion-resistant powder coated aluminum grille

Applications

- Shopping Malls, Retail Spaces & Showrooms
- Restaurants, Bars & Lounges
- Galleries, Museums & Amusement Parks
- Casinos, Convention Centers & Hotels
- Houses of Worship & Educational Facilities
- Sporting Facilities
- Marinas, Piers & Wharfs



Specifications



PS-S63T **PS-S63T**
WHITE **BLACK**

LOUDSPEAKER

Frequency Range (-10dB):	49Hz – 25kHz
Frequency Range (-3dB):	65Hz – 20kHz
Power Capacity:	120 Watts Continuous Program Power 60 Watts Continuous Pink Noise
Nominal Sensitivity:	88dB
Nominal Coverage Angle:	90 degrees x 90 degrees coverage
Directivity Factor (Q):	6.5
Directivity (DI):	7.9dB
Rated Maximum SPL:	108dB @ 1 meter (3.3 feet) average, 116dB peak
Rated Impedance:	8 Ohms nominal, 6 Ohms minimum
Transformer Taps:	70V: 60W, 30W, 15W and 7.5W 100V: 60W, 30W and 15W
Crossover Point:	2750Hz
Overall Dimension:	12.14" Height x 7.51" Width x 6.86" Depth (309mm x 191mm x 174mm)
Net Weight:	11.43 lbs (5.18kg) each
Shipping Weight:	31.26 lbs (14.18kg) pair
Unit of Measure:	Pair
Color:	Black or White
Grille:	Powder Coated Aluminum Friction Fit

TRANSDUCERS

LF Driver:	6.5" (165mm) Polypropylene Cone, Butyl Rubber Surround
HF Driver:	1" (25mm) Cloth Dome, Ferrofluid cooled

ENCLOSURE

Input Connectors:	Front-mounted four pin, Euroblock with loop output connections
Safety Agency:	UL 1480, UL 2239, NFPA 70
Mounting Bracket:	U-Bracket with Sonance FastMount
Environmental & UV:	Conforms to MIL-STD-810 for humidity, salt spray, temperature, IEC 529 IPX4 splash-proof rating

Included Accessories

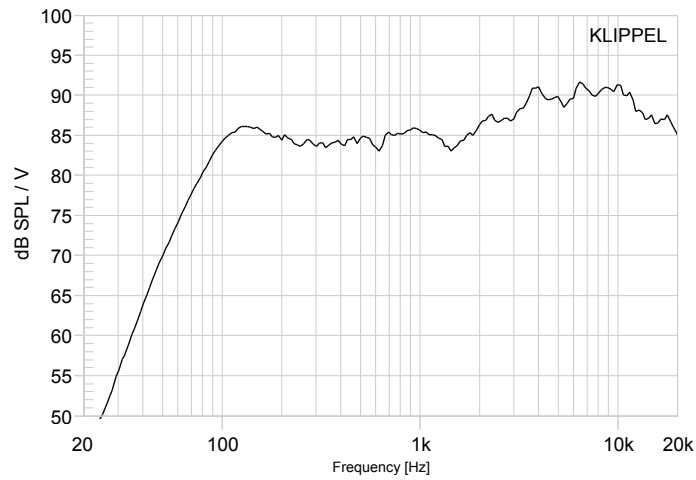
- Euroblock Connector x 2
- FastMount Bracket x 2
- Terminal Cover x 2
- Grille x 2

Optional Accessories

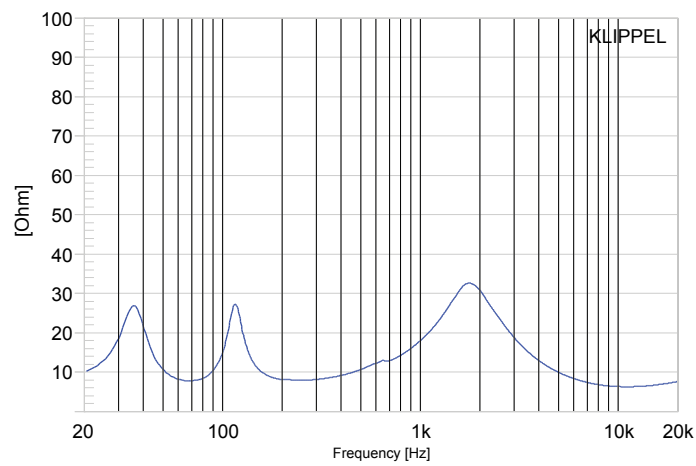
- Replacement Grille White (pair) | 93164
- Replacement Grille Black (pair) | 93165

Performance Measurements

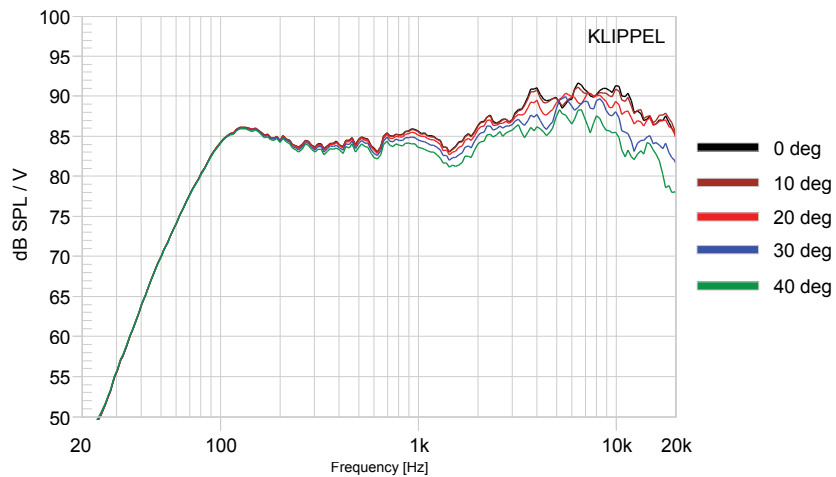
1 METER ON AXIS FREQUENCY RESPONSE



IMPEDANCE vs FREQUENCY

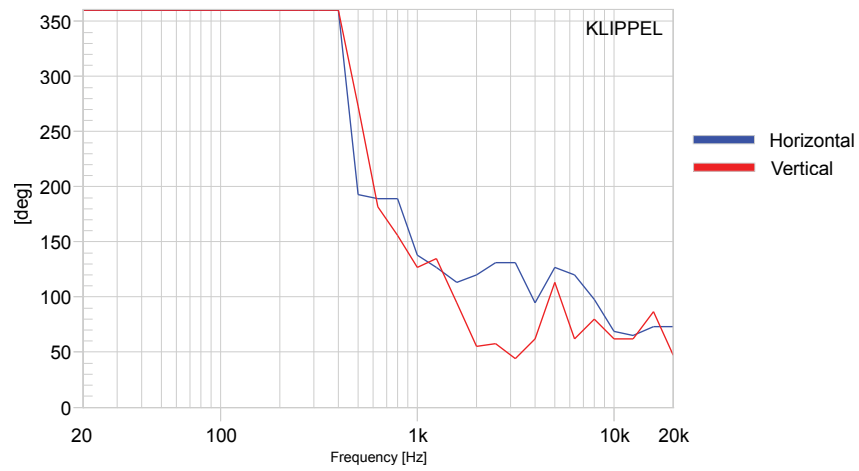


1 METER HORIZONTAL FREQUENCY RESPONSE

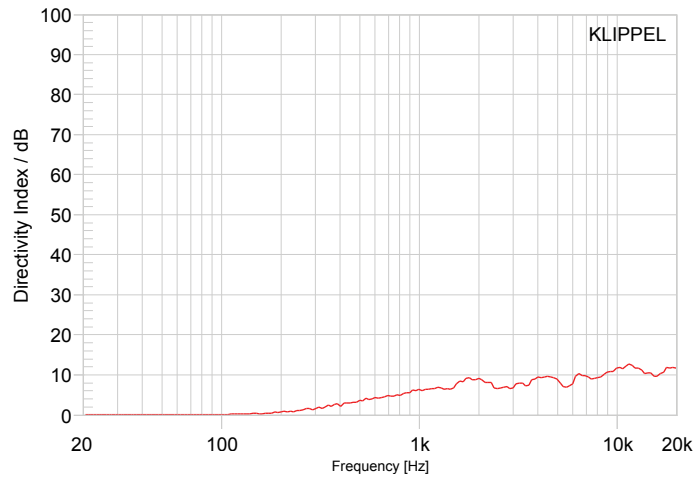


Performance Measurements

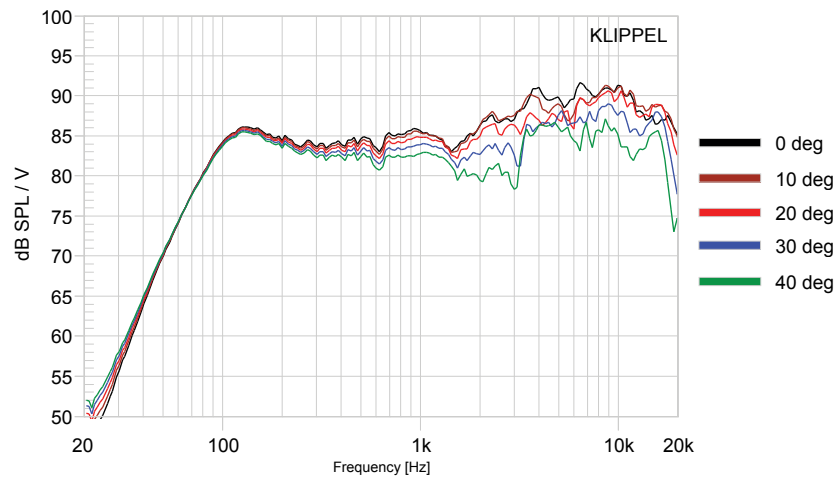
BEAMWIDTH vs FREQUENCY



DIRECTIVITY INDEX vs FREQUENCY

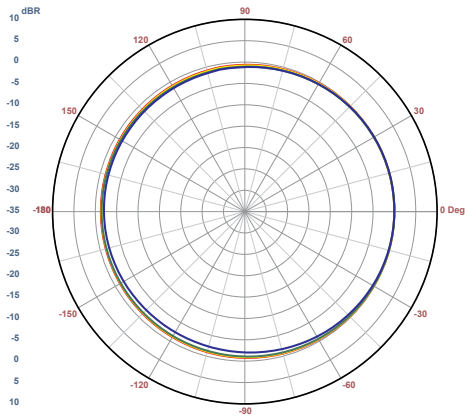


1 METER VERTICAL FREQUENCY RESPONSE



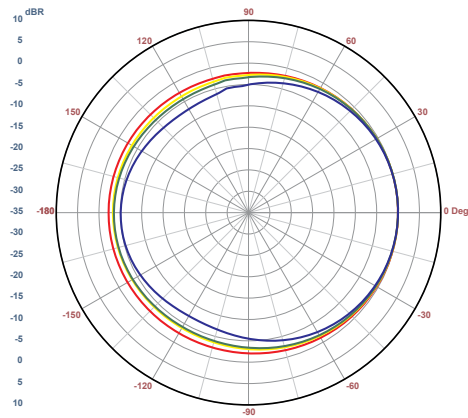
Polar Plots (1/3 Octave)

RATIO vs ANGLE



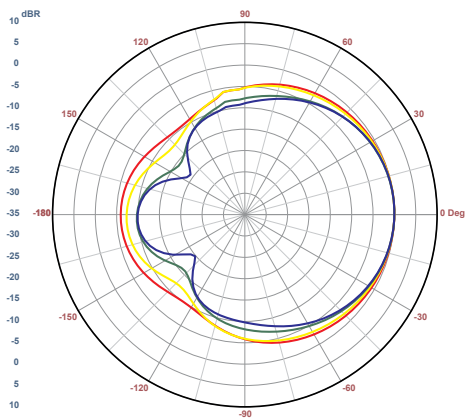
Curve	Freq	BW	Q	DI
Red	100.00	360	1.0	0.0
Yellow	125.00	360	1.0	0.0
Green	160.00	360	1.0	0.0
Blue	200.00	360	1.0	0.0

RATIO vs ANGLE



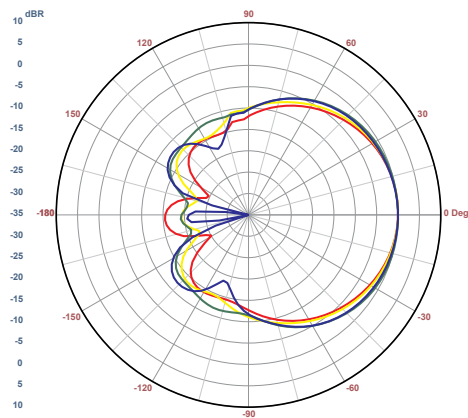
Curve	Freq	BW	Q	DI
Red	250.00	360	1.0	0.0
Yellow	315.00	360	1.0	0.0
Green	400.00	360	1.0	0.0
Blue	500.00	193	1.9	2.7

RATIO vs ANGLE



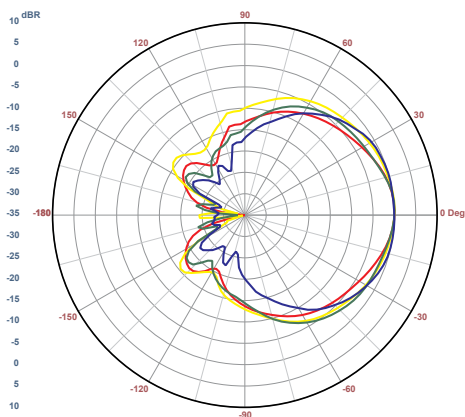
Curve	Freq	BW	Q	DI
Red	630.00	189	1.9	2.8
Yellow	800.00	189	1.9	2.8
Green	1.00K	138	2.6	4.2
Blue	1.25K	127	2.8	4.5

RATIO vs ANGLE



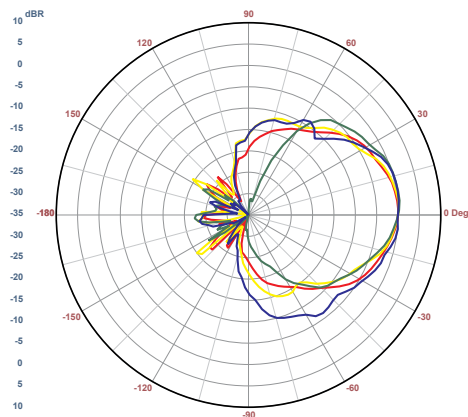
Curve	Freq	BW	Q	DI
Red	1.60K	113	3.2	5.0
Yellow	2.00K	120	3.0	4.8
Green	2.50K	131	2.7	4.4
Blue	3.15K	131	2.7	4.4

RATIO vs ANGLE



Curve	Freq	BW	Q	DI
Red	4.00K	95	3.8	5.8
Yellow	5.00K	127	2.8	4.5
Green	6.30K	120	3.0	4.8
Blue	8.00K	98	3.7	5.6

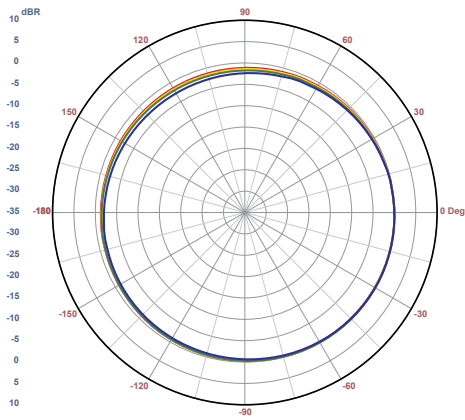
RATIO vs ANGLE



Curve	Freq	BW	Q	DI
Red	10.00K	69	5.2	7.2
Yellow	12.50K	65	5.5	7.4
Green	16.00K	73	4.9	6.9
Blue	20.00K	73	4.9	6.9

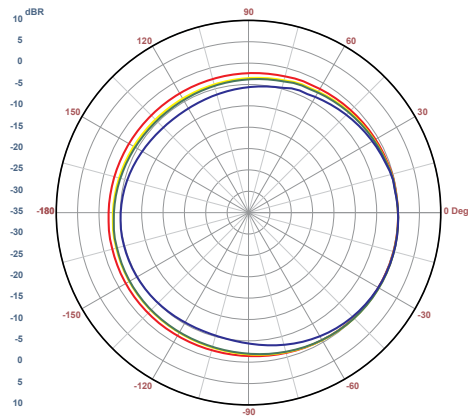
Polar Plots (1/3 Octave)

RATIO vs ANGLE



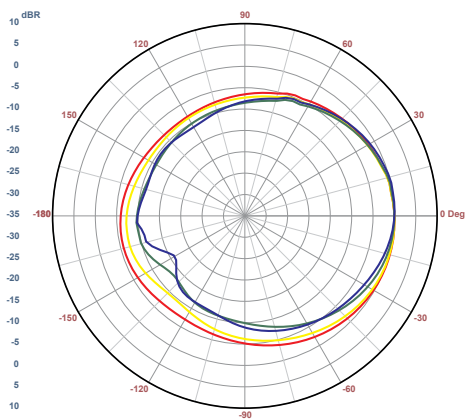
Curve	Freq	BW	Q	DI
Red	100.00	360	1.0	0.0
Yellow	125.00	360	1.0	0.0
Green	160.00	360	1.0	0.0
Blue	200.00	360	1.0	0.0

RATIO vs ANGLE



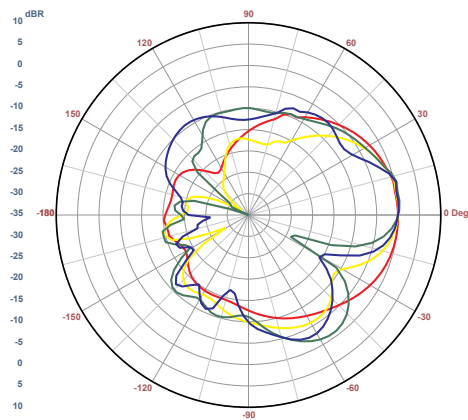
Curve	Freq	BW	Q	DI
Red	250.00	360	1.0	0.0
Yellow	315.00	360	1.0	0.0
Green	400.00	360	1.0	0.0
Blue	500.00	273	1.3	1.2

RATIO vs ANGLE



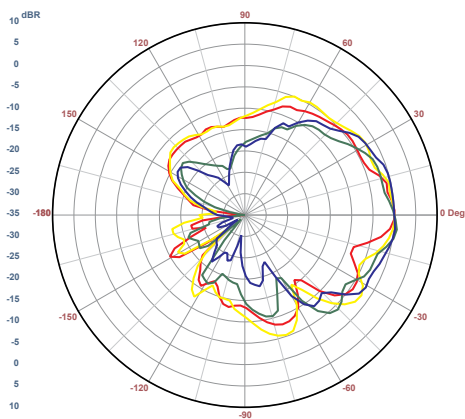
Curve	Freq	BW	Q	DI
Red	630.00	182	2.0	3.0
Yellow	800.00	156	2.3	3.6
Green	1.00K	127	2.8	4.5
Blue	1.25K	135	2.7	4.3

RATIO vs ANGLE



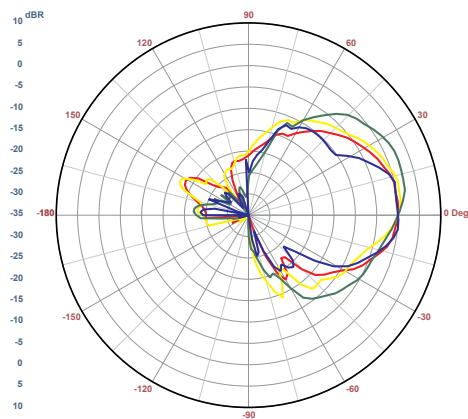
Curve	Freq	BW	Q	DI
Red	1.60K	95	3.8	5.8
Yellow	2.00K	55	6.6	8.2
Green	2.50K	58	6.2	7.9
Blue	3.15K	44	8.3	9.2

RATIO vs ANGLE



Curve	Freq	BW	Q	DI
Red	4.00K	62	5.8	7.7
Yellow	5.00K	113	3.2	5.0
Green	6.30K	62	5.8	7.7
Blue	8.00K	80	4.5	6.5

RATIO vs ANGLE

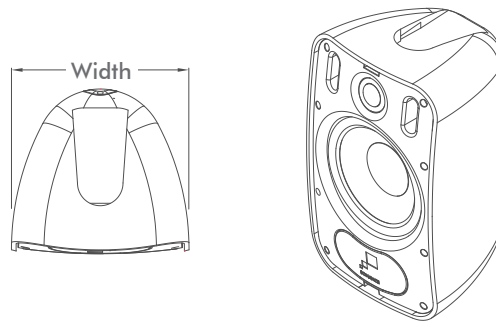
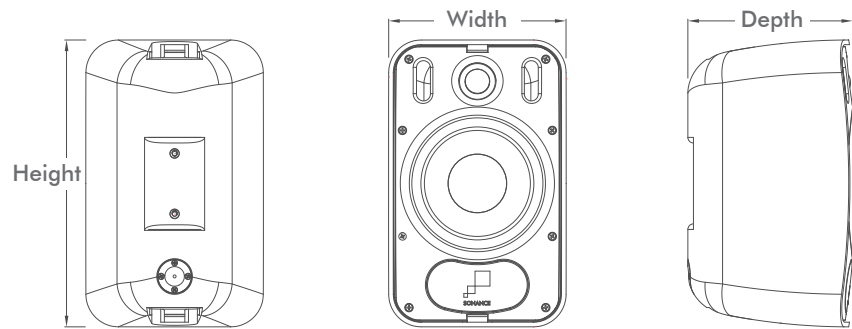


Curve	Freq	BW	Q	DI
Red	10.00K	62	5.8	7.7
Yellow	12.50K	62	5.8	7.7
Green	16.00K	87	4.1	6.2
Blue	20.00K	47	7.6	8.8

Dimensional Sketches Specifications

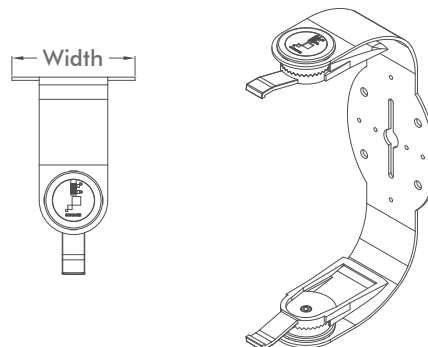
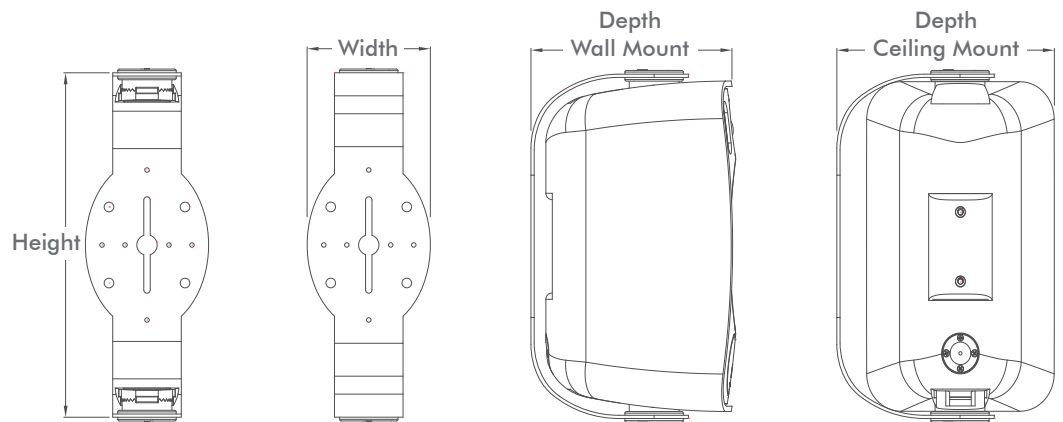
PS-S63T Loudspeaker

Height:	12.14" (308mm)
Width:	7.51" (191mm)
Depth:	6.86" (174mm)



S6 Mounting Bracket

Height:	12.657" (322mm)
Width:	4.527" (115mm)
Depth Wall Mount:	7.48" (190mm)
Depth Ceiling Mount:	8.268" (210mm)



Architectural Specifications

The loudspeaker shall be of the two-way type comprising a single surface-mount injection-molded ABS enclosure containing one 6.5" (165mm) polypropylene cone, butyl rubber surround low frequency transducer and one coaxially mounted 1" (25mm) cloth dome, chambered ferrofluid cooled high frequency transducer. It shall utilize a powder coated corrosion-resistant aluminum grille with friction-fit. Frequency range shall be 65Hz – 20KHz (-3dB). Total power handling shall be 60 Watts continuous pink noise and 120 Watts program. Sensitivity measured with 2.83 volts input at 1 meter on axis averaged between 65Hz – 20KHz shall be 88dB. The unit shall be supplied with a line-matching transformer suitable for 100 volt or 70 volt with a front-mounted control allowing user selectable power taps of 60W, 30W, 15W, and 7.5W (70V) and an 8 Ohm bypass. The speaker shall include a FastMount bracket that allows for a

full 180° of pivot while keeping the speaker less than 1" from the mounting surface. Wire shall be terminated on the front of the enclosure via a four-pin Euroblock connector with loop-through and fed through a Protected Access Connection Terminal. The system shall be certified for UL 1480 (UEAY) and UL 2239 and conform to MIL-STD-810 for humidity, salt spray, temperature and UV IEC 529 and meet or exceed an IPX4 splash proof rating. External dimensions shall be 12.14" Height x 7.51" Width x 6.86" Depth (308mm x 191mm x 174mm). The total enclosure shall weigh 5 lbs. (2.27 kg) per unit. It shall share consistent voicing with other form factors and sizes within its product family so as to provide continuity of sonic signature when combined within a project. The loudspeaker shall be the Sonance Professional Series PS-S63T. No other system shall be acceptable unless the above combined performance specifications are equaled or exceeded.

Safety Agency Compliance

Sonance Professional Series In-Ceiling Speaker are compliant with:

UL 1480 (UEAY): Standard For Safety For Speakers for Fire Alarm, Emergency, and Commercial and Professional Use.

NFPA 70: 2002 National Electrical Code

ENVIRONMENTAL AND UV: Conforms to Mil Spec 810 for humidity, salt spray, temperature, IEC 529 IP-X4 splash-proof rating.



Warranty, Remedy, Exclusions and Limitations (USA only)

Limited Warranty

Sonance warrants this product to the original purchaser to be free from defects in material and workmanship, under normal use and conditions, for a period of five (5) years from the date of original purchase as shown on the invoice.

The foregoing exclusive warranty gives you specific legal rights, and you may have other rights, which vary from state to state. This warranty applies exclusively to the original purchaser.

The exclusive warranty does not apply and is ineffective if:

1. The invoice fails to establish that the product was purchased from an authorized Sonance dealer or distributor;
2. The product was subjected to misuse, neglect, accident, or improper installation. (Damage to the product was caused by accident, abuse or misuse);
3. The product was modified, altered, or repaired by unauthorized personnel; or
4. The unit was not used as described in the installation and operating instructions.

Exclusive Remedy

Sonance agrees, at its option during the five (5) year warranty period, to repair any defect in material or workmanship or to furnish an equal product in exchange without charge to the purchaser, subject to the verification of the defect and proof of the date of purchase.

Warranty Exclusions and Damage Limitations

The exclusive warranty set forth above is in lieu of all other warranties, express or implied, including without limitation the implied warranties of merchantability and fitness for a particular purpose, which are expressly disclaimed. In no event, and under no circumstances or legal or equitable theory, shall Sonance be liable or responsible for any direct or indirect damages, consequential damages, loss, or injury, including without limitation, personal injury, bodily injury, property damage, emotional distress, death, real property or personal property damage, business interruption, costs of delay or lost profits arising from the product, whether based upon warranty, contract, negligence, strict product liability or other theory.

Associated Products

In-Ceiling Speakers

PS-C43RT In-Ceiling Speaker	40130
PS-C63RT In-Ceiling Speaker	40131
PS-C83RT In-Ceiling Speaker	40132
PS-C83RWT In-Ceiling Speaker	40133

Pendant Speakers

PS-P43T Pendant Speaker White	40134
PS-P63T Pendant Speaker White	40135
PS-P83T Pendant Speaker White	40136
PS-P83WT Pendant Speaker White	40137
PS-P43T Pendant Speaker Black	40138
PS-P63T Pendant Speaker Black	40139
PS-P83T Pendant Speaker Black	40140
PS-P83WT Pendant Speaker Black	40141

Surface Mount Speakers

PS-S43T Surface Mount Speaker White	40142
PS-S53T Surface Mount Speaker White	40143
PS-S83T Surface Mount Speaker White	40145
PS-S83WT Surface Mount Speaker White	40146
PS-S43T Surface Mount Speaker Black	40147
PS-S53T Surface Mount Speaker Black	40148
PS-S83T Surface Mount Speaker Black	40150
PS-S83WT Surface Mount Speaker Black	40151

DSP Amplifier

Sonamp DSP 2-750 Amplifier	93095
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Due to continuous product improvement, all features and specifications are subject to change without notice.
For the latest Sonance product specification information visit our website: www.sonance.com

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www.sonance.com/professionalseries

10.04.17

Mounting

1. Follow the mounting instructions included with the Episode® EA-MR-AW-RVC-100 enclosure.

Operational Check

1. After making all connections, check for proper operation. Switch the system to the ON position. Using either the television or music, slowly increase the volume on the amplifier/receiver to mid-position. Now, slowly rotate the volume control knob from its minimum position towards its maximum position. You should hear sound emanating from the speakers, increasing in volume as you rotate the volume control knob through its twelve steps. Select the level of sound that is desired. If no sound is heard from any or all speakers, switch the system OFF immediately and check for open or loose connections, wrong polarity, or shorts in the wires.



Lifetime Limited Warranty
Episode® Multi-room accessories have a Lifetime Limited Warranty. This warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products which have been abused, modified or disassembled. Products to be repaired under this warranty must be returned to SnapAV or a designated service center with prior notification and an assigned return authorization number (RA).

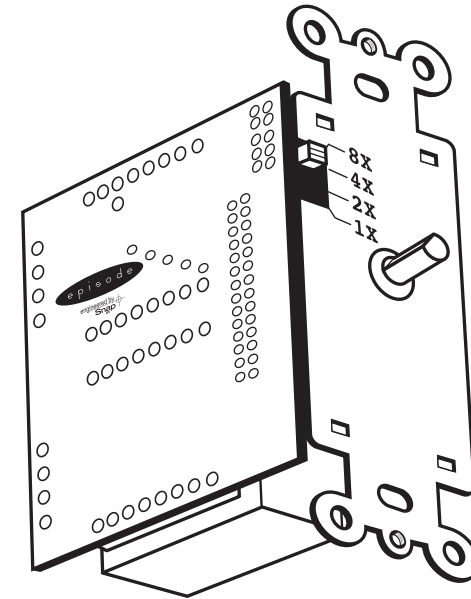


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Snap
av

OWNER'S MANUAL

>> Volume Control

EA-MR-AW-RVC-100



The Episode® EA-MR-AW-RVC-100 Volume Control has a unique adjustable design which allows it to be used as an impedance matching stereo volume control when 2x, 4x, or 8x switch positions are selected, or as a standard stereo non-impedance matching volume control when 1x switch position is selected (Note: 1x position is for use with impedance matching speaker selector or other impedance matching device). When the impedance matching switch positions are selected, this design enables you to connect up to 8 pairs of 8 ohm speakers or 4 pairs of 4-ohm speakers to an 8 ohm stable amplifier and operate them simultaneously without the fear of amplifier overload, eliminating the need for a speaker selector or other impedance matching device.

Wiring and Installation

1. Determine the minimum operating impedance of the amplifier to be used in the installation. This information should be in the amplifier owner's manual. Using the speaker chart below, choose the proper position for the impedance matching switch (see Fig. 1) and put the switch in the correct position.
2. The EA-MR-AW-RVC-100 has detachable connector blocks to which the amplifier and speaker wires should be connected. When connecting the speaker leads from the amplifier outputs to the volume control's green input connector block, strip approximately 1/8 inch of insulation from the wire and twist or solder it so that there are no loose strands. Insert the wires from the amplifiers outputs into the volume control connector block inputs.

8 ohm Speaker Chart

<i>Recommended Switch Position 8 ohm Stable Amplifier</i>	
Connecting 1 Pair of 8 ohm Speakers	1X Position
Connecting 2 Pairs of 8 ohm Speakers	2X Position
Connecting 3-4 Pairs of 8 ohm Speakers	4X Position
Connecting 5-8 Pairs of 8 ohm Speakers	8X Position

<i>Recommended Switch Position 4 ohm Stable Amplifier</i>	
Connecting 2 Pairs of 8 ohm Speakers	1X Position
Connecting 3-4 Pairs of 8 ohm Speakers	2X Position
Connecting 5-8 Pairs of 8 ohm Speakers	4X Position
Connecting 9-16 Pairs of 8 ohm Speakers	8X Position

4 ohm Speaker Chart

<i>Recommended Switch Position 4 ohm Stable Amplifier</i>	
Connecting 2 Pairs of 4 ohm Speakers	4X Position
Connecting 3-4 Pairs of 4 ohm Speakers	8X Position

<i>Recommended Switch Position 8 ohm Stable Amplifier</i>	
Connecting 1 Pair of 8 ohm Speakers	1X Position
Connecting 2 Pairs of 8 ohm Speakers	2X Position
Connecting 3-4 Pairs of 8 ohm Speakers	4X Position
Connecting 5-8 Pairs of 8 ohm Speakers	8X Position

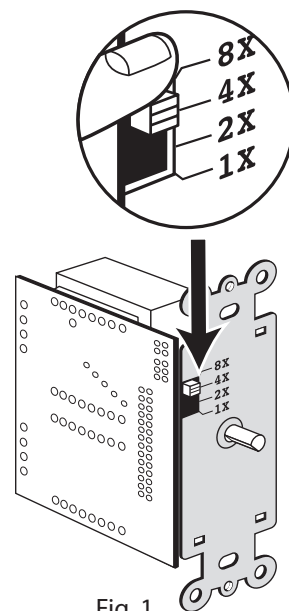


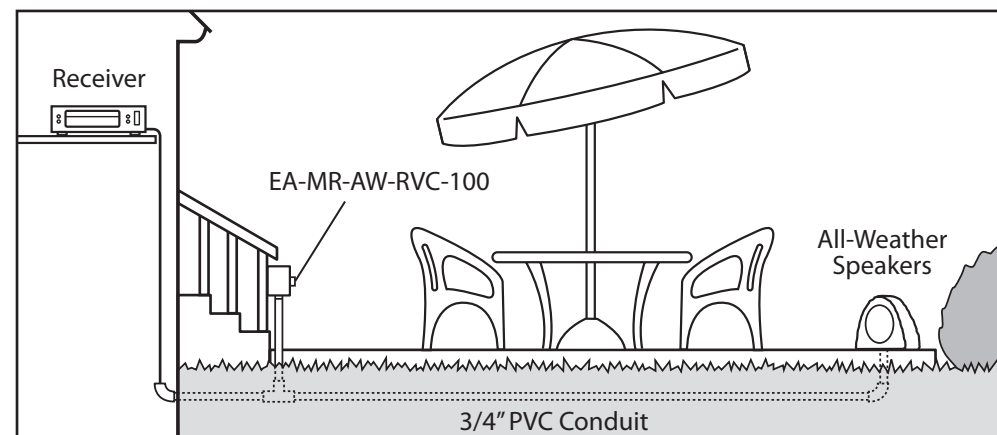
Fig. 1

Note: Wires should stay consistent: right + from the amplifier to right + on the input side of the connecting block. Most speaker wire has some form of identification such as raised ribs or color coding to help determine positive and negative connections. Connect the speakers to the black output connector block following the same format as above. When the wires are connected to the blocks, plug them back into the volume control input and output. Do not apply undue pressure while plugging it into the socket. Make sure the plug is engaged in the socket properly and is not loose.

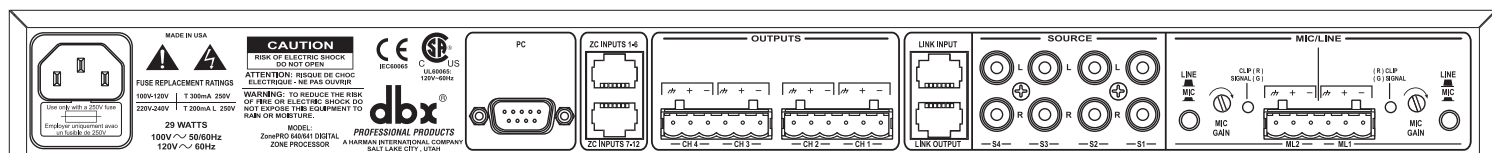
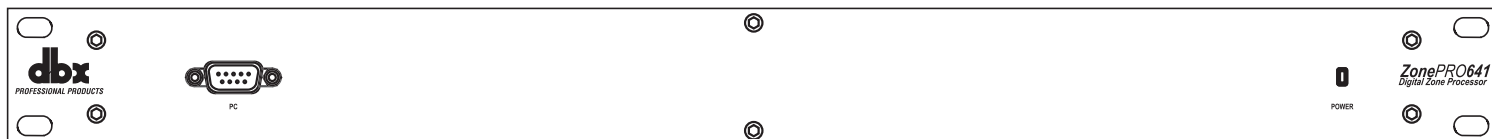
Note: Volume controls need to see a minimum 4 Ohm impedance on the output side of the transformer in order for settings to appropriately protect the amplifier.

Caution: Do not reverse the input and output connections, or serious damage may occur to the amplifier.

Typical System Setup



dbx ZonePRO™ 641



OVERVIEW:

The ZonePRO 641 offers fixed I/O, pre-configured architecture, configurable insert processing and optional duplication of audio channels to another ZonePRO device via a link bus.

The 641 features a total of six inputs and four outputs. Inputs include two balanced mic/line switchable terminal block inputs and four mono-summed pairs of unbalanced RCA inputs. Hardware-controlled microphone gain allows adjustment of microphone gain per channel.

The 641 device has a pre-configured architecture with input processing, a central matrix and output processing. Two input insert positions and one output insert position allow channel-specific insert processing to be configured. AutoWarmth®, a psychoacoustic function that maintains full frequency bandwidth even when the signal level has dropped, is permanently available on each output zone.

A link bus allows duplication of the first six audio channels to another ZonePRO device in applications where additional output zones are required.

The front panel of the 641 features a power status LED, a network traffic LED, and an RS-232 control port.

Additional system control is offered in the form of optional Zone Controllers. This collection of hardware wall-controllers represents a series of simple, elegant user interfaces for functions such as volume, source and preset control.

All ZonePRO devices can be controlled by third party control systems via RS-232 or Ethernet as applicable (see table for further information).

ZonePRO Designer—the configuration, control and monitoring software for the ZonePRO family of devices—offers control of the ZonePRO 641 via RS-232. The Configuration Wizard within ZonePRO Designer guides users through the step-by-step configuration process of the 641.

KEY FEATURES:

- 6 Inputs / 4 Outputs
 - 2 Balanced Mic/Line Inputs
 - 4 Unbalanced, Mono-Summed RCA Input Pairs
- Microphone Gain per Channel
- Pre-Configured Architecture
- Two Configurable Input Insert Positions
- One Configurable Output Insert Position
- AutoWarmth® per Output Zone
- Link Bus
- Optional ZC Controllers
- Serial Control
- Third Party Control
- Wizard-Driven Configuration



ZonePRO™ 641

TECHNICAL SPECIFICATIONS:

Front Panel LED Indicators:	Power
Analog Inputs:	6 Total (2) Switchable Mic or Line, (4) Unbalanced, Mono-Summed RCA Input Pairs
Type:	Euroblock (Mic/Line), RCA (Source)
Impedance (Euroblock):	>50kΩ Balanced, >25kΩ Unbalanced, RF Filtered
Impedance (RCA):	>25kΩ Unbalanced, RF Filtered
Max. Input Line Level:	+20dBu Mic/Line, +12dBu RCA
CMRR:	>40dB, typically >55dB @ 1kHz
Mic Pre Gain:	30 to 60dB
Mic Input Noise (E.I.N.):	<-118dBu, 22Hz-22kHz, 150Ω Source Impedance
Mic Phantom Power:	+15VDC
Analog Outputs:	4 Total
Type:	Electronically Balanced, RF Filtered Euroblock
Impedance:	120Ω Balanced, 60Ω Unbalanced
Max. Output Level:	+20dBu
A/D Performance:	
Type:	dbx Type IV™ Conversion System
Dynamic Range Line:	>113dB A-weighted, >110dB unweighted
Type IV Dynamic Range:	>119dB A-weighted, 22kHz BW: >117dB, unweighted, 22kHz BW
Sample Rate:	48kHz
D/A Performance:	
Dynamic Range:	112dB A-weighted, 109dB unweighted, 22kHz BW
System Performance:	
Dynamic Range:	>109dB A-weighted, >106dB unweighted, 22kHz BW
THD+N:	0.003% typical at +4dBu, 1kHz, 0dB gain
Frequency Response:	20Hz – 20kHz, +/- 0.5dB
Interchannel Crosstalk:	>80dB typical
Crosstalk input to output:	>80dB
Propagation Delay:	0.6 msec
Operating voltage:	100 VAC, 50/60Hz, 120 VAC, 60Hz, 230VAC 50/60Hz
Power Requirements:	29 Watts
BTU Rating:	<92.13 BTU
Physical Dimensions:	
Weight:	6.8 lbs / 3.1 kg Shipping Weight 8.8 lbs / 4 kg
Dimensions (H(U) x W x D):	1.75" (1U) x 19" x 7.75" (45mm x 483mm x 197mm)
Safety Agency Certifications:	UL 60065, IEC 60065, E 60065, EN 55013

	Inputs	Outputs	Front Panel Control	Mic Preamps	S/PDIF	Ethernet	Mix Functionality	ANC*
1260m	12	6	✓	6	✓	✓	✓	✓
1260	12	6	✓	2	✓	✓	✓	
1261m	12	6		6	✓	✓	✓	✓
1261	12	6		2	✓	✓	✓	
640m	6	4	✓	4		✓	✓	✓
640	6	4	✓	2				
641m	6	4		4		✓	✓	✓
641	6	4		2				

*Ambient Noise Compensation

CONNECT SERIES

- AMPLIFIER SPEC SHEET -



MODEL	CHANNEL COUNT	WATTS PER CHANNEL
CS 702	2 CHANNELS	700 WATTS

	MODEL	CHANNEL COUNT	WATTS PER CHANNEL
AUDIO SPEC	Output Power	2 x 700 WRMS Per Channel @ 4Ω, 8Ω, 70V, 100V (350W at 2Ω) 330 Watts @25V	
	Inputs	4 Analog: Balanced Inputs with user selectable 26 dB and 34 dB input sensitivity	
	THD+N	0.1% (20Hz to 20kHz)	
	Frequency Response	+/- 0.5 dB @ 4Ω, 8Ω, 70V, 100V, -2.5dB @ 20kHz at 2Ω	
	Signal to Noise Level	105dB (20Hz to 20kHz referenced to 8Ω)	
	Crosstalk	70dB (20Hz to 20kHz)	
	I/O Latency	1 ms DSP latency under any condition	
	Load Impedance	LowZ down to 2 ohms, 70V direct, and 100V Direct per channel	
	Output Classification	Class D with Proprietary Smart Power Bridge Technology allowing bridged output functionality without sacrificing an amplifier channel	
DSP	DC Offset	+/- 3mV	
	DSP Architecture	Analog Devices Sigma 96kHz DSP Processor with 32-bit Core with Sample Rate Converters	
	Input Matrix	Routable matrix; any input to any output with primary and secondary input priority	
	Crossovers	Up to 48 dB/Octave IIR Filters (Linkwitz Riley and Butterworth) and Bessel	
	Parametric EQ	8 Band Parametric EQ per channel	
	Output Delay	100ms per channel	
	Output Protection	DC, VHF, and AC Mains Protection, Over-temp and Current Limiter, fan fault detection	
	Limiting	Peak Voltage and RMS Voltage	
	Load Monitoring	Realtime Load Monitoring and Pilot Tone Detection from Internal or External Sources	
CONTROL, MONITORING, NETWORK	Network Connectivity	Wi-Fi or 100MB Ethernet with PoE or Built in Wi-Fi Access Point (IEEE 802.11 b/g/n WPA, WPA2, WEP)	
	User Interface	Web Browser User Interface or 3rd Party API control Q-Sys, Atona, Extron, Utelogy, Crestron, RTI, Barco	
	Operating Systems	MAC, iOS, PC, Android	
	Event Reporting	User Downloadable and Viewable Event and Fault log - POE allows for enhanced error monitoring	
	External I/O	External I/O In: Toggles Remote On/Off External I/O Out: Indicates Amplifier Health	
OPS DATA	Cloud IoT	AWS Cloud based IoT functionality	
	AC Mains	100VAC - 240VAC +/- 15% 50Hz or 60Hz	
	Temperature	Storage: -20°C to 90° C - Operating: 0°C to 60° C	
	Power Supply	Universal Switch Mode Power Supply	
PHYSICAL SPEC	Safety Approvals	UL, CSA, CE, ETL, FCC, CCC, KETI, NOM, ROHS, PSE	
	Dimensions (L x W x H)	Product: 14.25" x 19" x 1U (362mm x 482mm x 1U) x 1U (362mm x 482mm x 1U) Shipping: 20" x 22.75" x 3.75" (508mm x 578mm x 95.25mm)	
	Weight	10lbs / 3.4kg Shipping: 18.7lbs / 8.5kg	
	Cooling	Front to Rear Variable Fan Speed Cooling Fan Noise at idle is 50dB @ 1m Fan Noise at 50% is 57dB @1m Fan Noise at full speed is 63dB @1m	
	Connectors	Analog Input: 3 pin Amphenol Anytek, Output: 2 pin Amphenol Anytek, External IO: 3 pin Amphenol Anytek, Power in: IEC, Ethernet RJ45 In for Control	

LEA Professional reserves the right to make any necessary changes to the specification. The LEA Professional Warranty is 6 years from date of purchase and product registration in the United States.



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CONNECT SERIES

- AMPLIFIER SPEC SHEET -



MODEL	CHANNEL COUNT	WATTS PER CHANNEL
CS 352	2 CHANNELS	350 WATTS

	MODEL	CHANNEL COUNT	WATTS PER CHANNEL
AUDIO SPEC	Output Power	2 x 350 WRMS Per Channel @ 4Ω, 8Ω, 70V, 100V (175W at 2Ω) 230 Watts @ 25V	
	Inputs	4 Analog: Balanced Inputs with user selectable 26 dB and 34 dB input sensitivity	
	THD+N	0.1% (20Hz to 20kHz)	
	Frequency Response	+/- 0.5 dB @ 4Ω, 8Ω, 70V, 100V, -2.5dB @ 20kHz at 2Ω	
	Signal to Noise Level	105dB (20Hz to 20kHz referenced to 8Ω)	
	Crosstalk	70dB (20Hz to 20kHz)	
	I/O Latency	1 ms DSP latency under any condition	
	Load Impedance	LowZ down to 2 ohms, 70V direct, and 100V Direct per channel	
DSP	Output Classification	Class D with Proprietary Smart Power Bridge Technology allowing bridged output functionality without sacrificing an amplifier channel	
	DC Offset	+/- 3mV	
	DSP Architecture	Analog Devices Sigma 96kHz DSP Processor with 32-bit Core with Sample Rate Converters	
	Input Matrix	Routable matrix; any input to any output with primary and secondary input priority	
	Crossovers	Up to 48 dB/Octave IIR Filters (Linkwitz Riley and Butterworth) and Bessel	
	Parametric EQ	8 Band Parametric EQ per channel	
	Output Delay	100ms per channel	
	Output Protection	DC, VHF, and AC Mains Protection, Over-temp and Current Limiter, fan fault detection	
CONTROL, MONITORING, NETWORK	Limiting	Peak Voltage and RMS Voltage	
	Load Monitoring	Realtime Load Monitoring and Pilot Tone Detection from Internal or External Sources	
	Network Connectivity	Wi-Fi or 100MB Ethernet with PoE or Built in Wi-Fi Access Point (IEEE 802.11 b/g/n WPA, WPA2, WEP)	
	User Interface	Web Browser User Interface or 3rd Party API control Q-Sys, Atlona, Extron, Utelogy, Creston, RTI, Barco	
	Operating Systems	MAC, iOS, PC, Android	
	Event Reporting	User Downloadable and Viewable Event and Fault log - POE allows for enhanced error monitoring	
OPS DATA	External I/O	External I/O In: Toggles Remote On/Off External I/O Out: Indicates Amplifier Health	
	Cloud IoT	AWS Cloud based IoT functionality	
	AC Mains	100VAC - 240VAC +/- 15% 50Hz or 60Hz	
	Temperature	Storage: -20°C to 90° C - Operating: 0°C to 60° C	
PHYSICAL SPEC	Power Supply	Universal Switch Mode Power Supply	
	Safety Approvals	UL, CSA, CE, ETL, FCC, CCC, KETI, NOM, ROHS, PSE	
	Dimensions (L x W x H)	Product: 14.25" x 19" x 1U (362mm x 482mm x 1U) x 1U (362mm x 482mm x 1U) Shipping: 20" x 22.75" x 3.75" (508mm x 578mm x 95.25mm)	
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Connectors	Analog Input: 3 pin Amphenol Anytek, Output: 2 pin Amphenol Anytek, External IO: 3 pin Amphenol Anytek, Power in: IEC, Ethernet RJ45 In for Control		

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Finally, a network that actually works.

A smart network makes for a smart home. With Araknis, you'll enjoy all the advantages of a business-grade network, right in your home. Our products provide the speed and dependability your family needs to effortlessly browse the web, stream music, play videos, and more!



WIRELESS ACCESS POINTS (WAPs)

Sleek and powerful, Araknis WAPs provide a strong, reliable Wi-Fi signal to any space.



ROUTERS

This router is perfect for high-traffic networks both big and small.



SWITCHES

Our switches offer three distinct management capabilities for a truly custom install.

FEATURES

RELIABLE NETWORK, DAY & NIGHT

The best home network is one you never notice. Movies and music are best enjoyed uninterrupted, so we make sure our products deliver a fast and reliable connection with every use. And with Araknis, the days of resetting your device via paper clip are over, because your installer can implement regularly scheduled reboots to ensure your network is always up to speed.

SUPPORT WHEN YOU NEED IT

Our products can only be installed by skilled professionals, which ensures that your network fits your space and consistently operates at peak performance. And we provide your installer with award-winning technical support and a remote-management platform, so if your network ever needs troubleshooting, it can be done in minutes, not days.

SMART & STYLISH

Our products feature sleek, low-profile designs and user-friendly features like parental controls, so your network fits seamlessly into your home. Ask your integrator about OvrC Home.



Wireless Access Points

FEATURES	100-series	300-series	500-series	700-series
Recommended Setting	Rural Area/ No Neighbors	Townhouse/Single Family House/ Apartment/Condo	Townhouse/Single Family House/ Apartment/Condo	Commercial/SMB/ Larger Homes
Environment Interference Level	Low	Med-High	Med-High	Med-High
Client Devices	Legacy	Not too modern, majority mobile	Modern, majority mobile	Modern, majority PC
Client Speed Demand	Low - just connectivity	Average	High	High
Future Proof	Low - 2.4GHz is very congested	Med - 5GHz capability	High - 802.11ac	High - 802.11ac
Coverage	High	High	High	High
Max Aggregated Speed	300Mbps	600Mbps	1200Mbps	1750Mbps
Cloud Management Capability	Yes	Yes	Yes	Yes
Limited Product Warranty	2-Year	2-Year	2-Year	2-Year

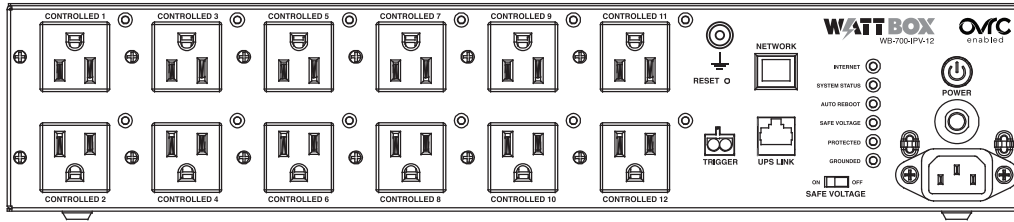
Routers

FEATURES	300-series
WAN-LAN Throughput	~500Mbps
LAN-LAN Throughput	1Gbps
Number of Gigabit LAN Interfaces	4
Number of Gigabit WAN Interfaces	2
WAN Load-balancing and Link Failover	Yes
VPN Support	PPTP, IPSec, OpenVPN
VLAN Support	Yes - 802.1Q
QoS Support	Yes - 802.1p
Access Control Lists	Yes
Cloud Management Capability	Yes
Limited Product Warranty	2-Year

Switches

FEATURES	110-series	210-series	310-series
Management	Unmanaged+	Websmart	L2 Managed
Interactive Local GUI	No	Yes	Yes
Fanless Design	Yes	Only 8-port model	No (only Non-PoE models are fanless)
Multi-Speed Variable Fans (Temperature controlled)	N/A	16 & 24 Port Models	Yes (only PoE models have fans)
POE	N/A	Partial PoE+	Full PoE+
PoE/PoE+ Support (802.3af/at)	N/A	Yes on all ports	Yes on all ports
1U Rack Mountable	Yes (except for 5-port)	Yes	Yes
SFP Uplink Ports	N/A	Yes	Yes
Cloud Management Capability	Yes	Yes	Yes





KEY FEATURES

Surge Protection with Fireproof MOVs – Advanced Ceramic MOV technology reduces risk of fire from surges.

Surge Disconnect – In the event of a catastrophic surge event, the WattBox™ component will sacrifice itself and permanently disconnect AC Power.

Sequential Power – Protects against harmful speaker pop and blown circuits by sequentially turning equipment on and off.

Noise Filtration – Eliminates AC noise to improve picture and sound quality.

High Current Outlets – Designed for equipment with high current demands such as amplifiers and subwoofers.

Flexible Power Cord – WattBox™ power cords are both flexible and durable, and designed for ease of installation.

Safe Voltage Monitoring – WattBox components equipped with Safe Voltage Monitoring will automatically disconnect system equipment from harmful over and under voltages. When the Input voltage returns to a safe level, the equipment will be reconnected.

Input Trigger – Allows 3rd party control systems to control events and outlets on the WattBox.

IP Control – Provides control of all outlets over an IP network. Turn outlets on and off through a web browser.

Modular Display – Mount a display separately anywhere in the rack using the WB-600-FP or WB-FACEPLATE (sold separately).

Auto Reboot – Monitors network activity and resets power to outlets when programmable conditions are met.

Outlet Control Scheduling – Configure outlets to turn off or on at a specific date or time.

System Notifications – Programmable email notifications keep you informed of System Status changes.

Remote Firmware Updates – Log into the device from anywhere on the Internet and update firmware remotely.

Flexible Mounting – WattBox flexible mounting options allows vertical, horizontal, or angled mounting. Mounts flush with back of the rack and allows the installer to easily reach outlets. Hardware is included to mount to the wall or back of a cabinet.

WELCOME TO WATTBOX™

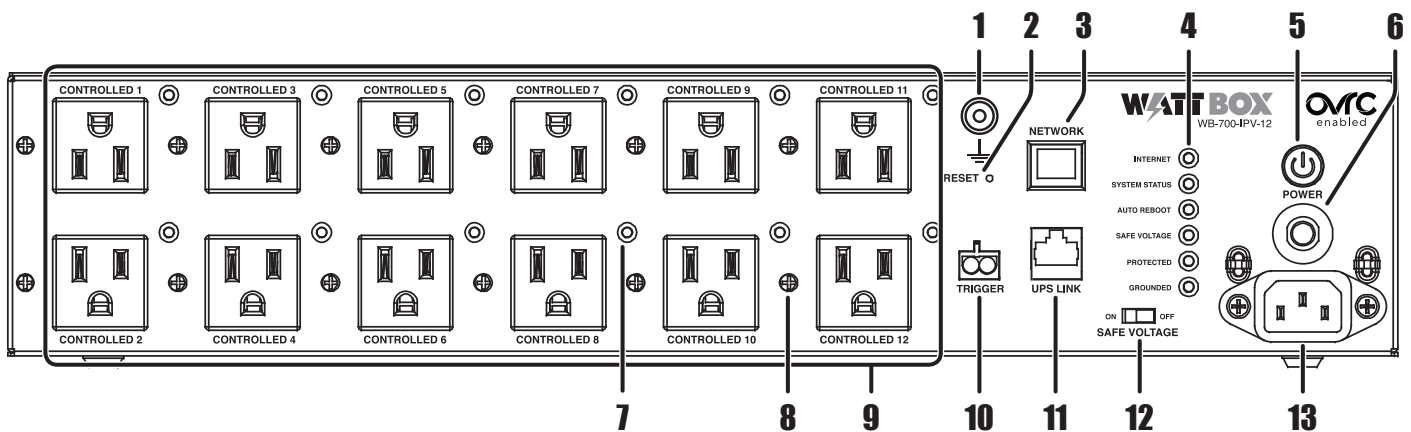
WattBox power products are designed specifically to provide customers with advanced protection for their valuable electronics and Custom Integrators with maximum flexibility for installation. With this IP-enabled power conditioner, both service calls and system downtime are reduced, and the self-healing Auto Reboot feature automatically resets components that become unresponsive on the network. Plus you get a host of remote access features to monitor and control individual outlets – even receive email notifications that keep you informed about the system's status.

Rest assured that WattBox products will deliver the protection and safety for your customers' needs. All WattBox products are UL certified and built with the highest quality components available such as Fireproof MOVs. Whether in a rack, a structured wiring enclosure or behind a flat screen, the versatile mounting options allows simple installation of WattBox™ for easily managing power cords, adapters and signal cables. WattBox is the ideal choice for Custom Integrators who demand reliability, safety, and flexibility when installing power products for their valued customers

PACKAGE CONTENTS

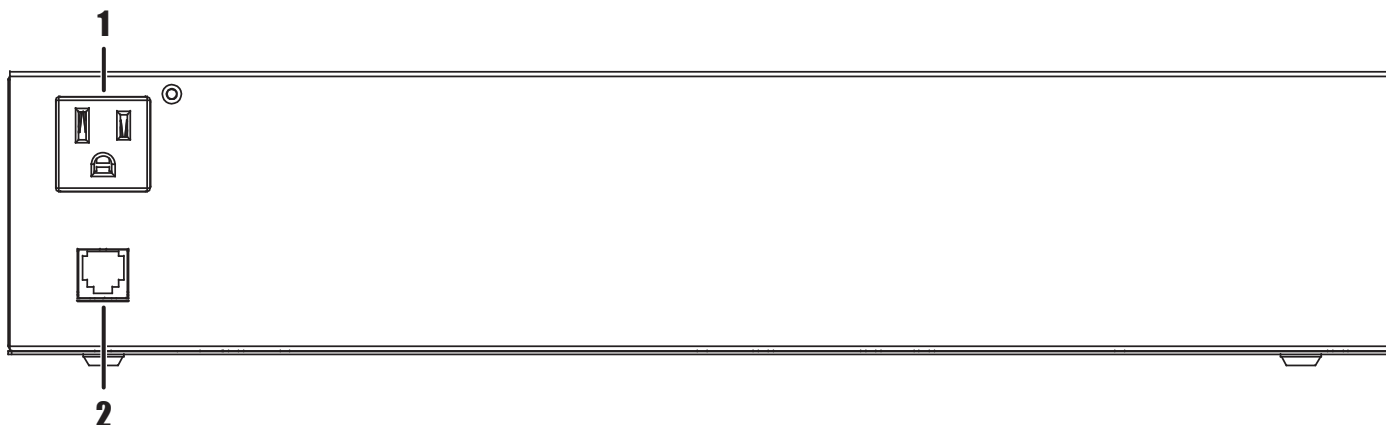
- | | |
|---|----------------------------------|
| (1) WB-700-IPV-12 | (4) Rubber Feet |
| (2) Sheets of Power Cord Labels (16 total labels) | (1) 6ft Power Cord |
| (1) Owner's Manual | (2) Small Rack Mounting Brackets |
| (1) WattBox™ Utility Software DVD Rom | (2) Large Rack Mounting Brackets |
| (4) Screws, Washers, and Anchors | (8) Mounting Bracket Screws |
| (6) Power Adapter Hook & Loop Tie Down Straps | (1) OvrC Quick Start Guide |

FRONT PANEL



1. Ground Lug – Ground post for bonding equipment.
2. Reset Button – Press to restart the network card (no settings are changed). Note: The Reset Button does NOT restore factory defaults - this can be done using the Wattbox Utility Software.
3. RJ45 Network Connection – Connect to the Local Area Network (LAN) for IP control and monitoring.
4. Indicator LEDs – See the status of Internet activity, system status, auto reboot, safe voltage, voltage protection, and grounding (see, “LED Operation” on page 3).
5. AC Power switch – Press to manually toggle the unit on or off.
6. Circuit Breaker – 15 Amp resettable breaker that trips out the unit when overamperage conditions occur.
7. Power Indicators for Outlets 1-12 – Illuminates when power is ON (x12 – 1 for each outlet)
8. Hook & Loop Strap Lockdown – Used to secure wall wart power supplies in place (x12 – 1 for each outlet) (see, “Securing Power Adapters” on page 7).
9. Controllable Outlets – All outlets are switchable (IP controlled).
10. Input Trigger – Used to control outlets with a contact closure. Shorting the connector pins together will turn off any outlet that is set as ‘Enabled’ under the Input Trigger section. A momentary contact switch can be used to reset these outlets.
11. UPS Link – For connection to a Wattbox UPS unit.
12. Safe voltage switch – Toggles the “Safe Voltage” feature on and off.
13. Power Inlet – Detachable power cord outlet with locking clip.

REAR PANEL



1. Outlet – Supplies power to the WB-600-FP or WB-700-FP (sold separately).
2. Display Link – Data connection to WB-600-FP or WB-700-FP (sold separately).

LED OPERATION

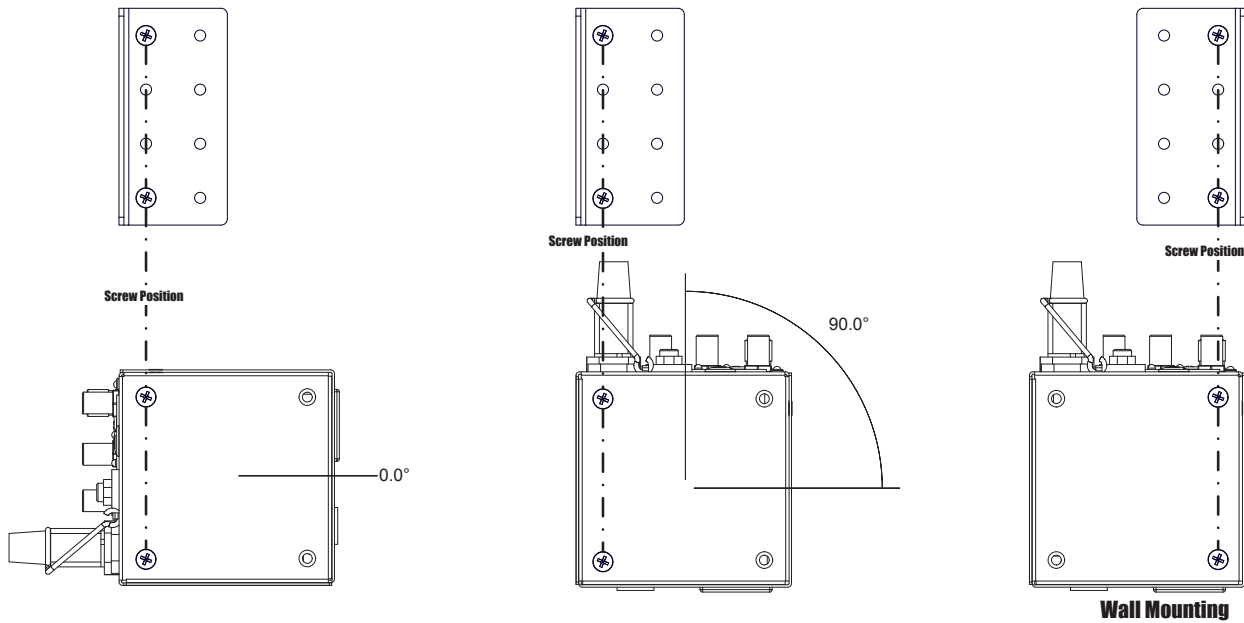
Internet	Green (Solid):	All sites/IP Addresses are communicating with the WattBox
	Green (Flashing):	At least 1 (not all) Sites/IP Addresses are communicating with the WattBox
	Red (Solid):	None of the Sites/IP Addresses are communicating with the WattBox.
System Status	Green (Solid):	WattBox processor is in an operating state and can be accessed via the WattBox interface
	Green (Flashing):	Firmware for the WattBox processor is being updated, during this state the WattBox cannot be accessed via the WattBox interface.
	Red (Solid):	WattBox processor is NOT in an operating state, reset button must be pressed to return the WattBox to an operating state.
Auto Reboot	Green (Solid):	Auto Reboot is Enabled, WattBox will perform power cycle for outlets that are ON when communication with the assigned Website/IP Address is lost. Note: outlets that are OFF will not power cycle.
	Off	Auto Reboot is Disabled, no power cycle will occur when communication with the assigned Website/IP Address is lost.
Safe Voltage	Green (Solid):	The current incoming AC voltage is safe for operation, all outlets will receive power.
	Green (Flashing):	Unit is verifying incoming AC voltage, occurs at WattBox power up or when incoming voltage returns to a safe condition after unsafe voltage was detected.
	Red (Solid):	Incoming AC voltage is NOT safe. WattBox outlets will be off until a safe incoming AC voltage is detected.
Protected	Green (Solid):	The WattBox is powered on and outlets are protected.
	Off:	The WattBox is not powered on, or the MOVs have opened removing power from the outlets.
Grounded	Green (Solid)	Incoming AC outlet is grounded.
	Off	Incoming AC outlet is not grounded and requires inspection by an electrician.

MOUNTING OPTIONS

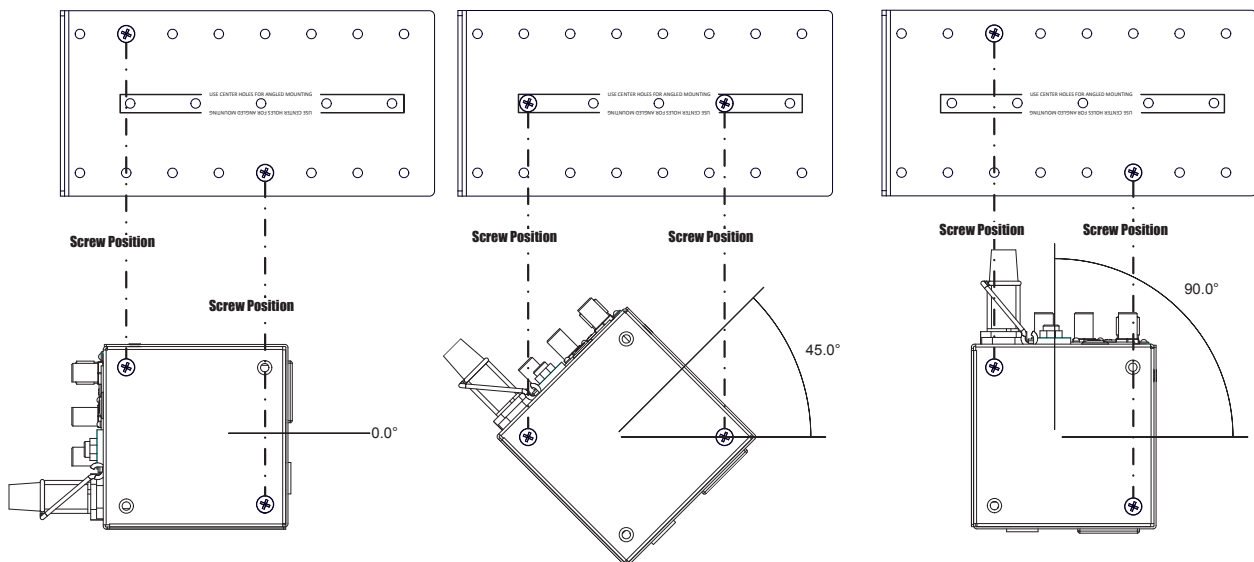
The Wattbox™ 700 Series is designed for standard 19" equipment racks and features versatile mounting options. The multi-position bracket allows vertical, horizontal, or angled mounting. The unit can also be mounted flush with the rack or set back to the most convenient position for a particular installation.

Attach the brackets to the Wattbox in the position desired. Install the Wattbox using supplied hardware.

Small Bracket Mounting



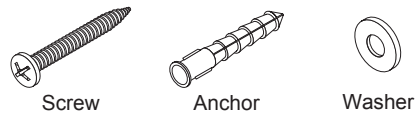
Large Bracket Mounting



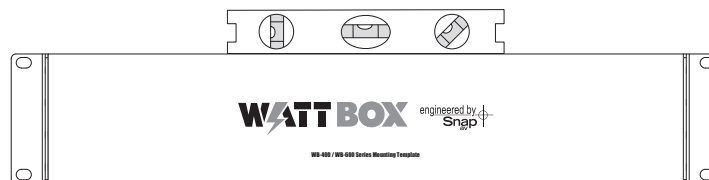
Wall Mounting

The Wattbox™ 700 series can be mounted to a wall or cabinet by using the small bracket. Mount the small bracket to the WB-700 with the flat part of the bracket facing away from the outlets.

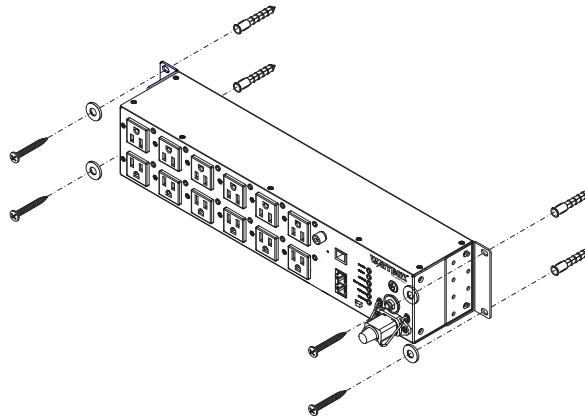
1. Locate wall studs using a stud finder (not included).
2. Position the provided template on the wall in the desired location of the Wattbox. If the location does not allow for this, use a wall molly or anchor with the appropriate weight rating for the Wattbox™.



3. Level the template and mark the wall with the screw locations.



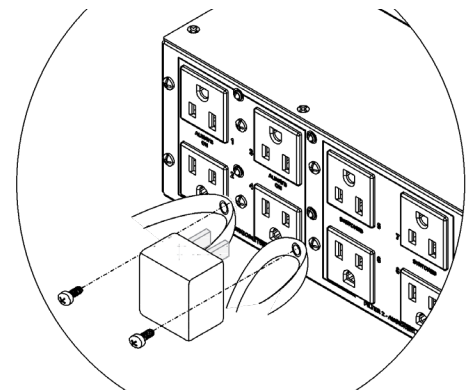
4. Secure the Wattbox to the wall.



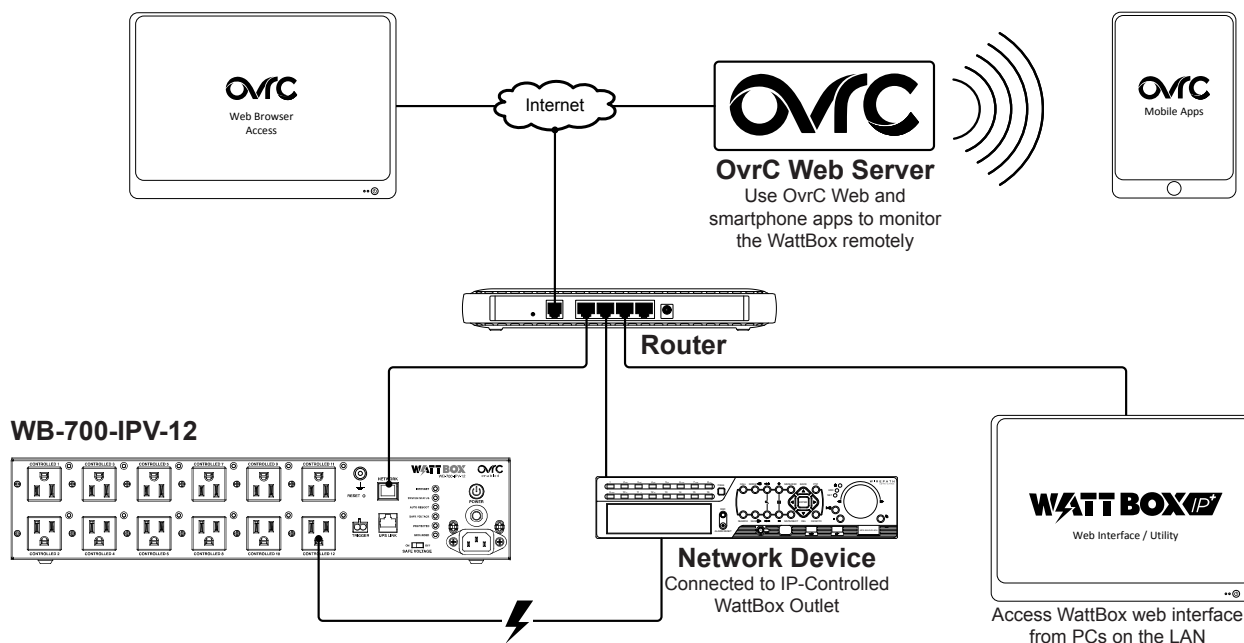
SECURING POWER ADAPTERS

The WattBox 700 series is supplied with hook & loop straps that can be used to secure power adapters the outlets.

1. Remove the screw on both sides of the outlet.
2. Insert the screw in the eyelet on the hook & loop straps.
3. Tighten the screw to secure the strap.
4. Wrap the hook & loop straps over the power adapter and fasten them together.



IP CONNECTIONS AND SETUP



Connect the WattBox™ and any equipment monitored and powered by the WattBox to the local network as illustrated.

After installation, you may set up this device in your OvrC account, and use the Wattbox Utility and web interface to configure LAN-only settings. To ensure reliable integration with other IP equipment, set up a static IP address for the WattBox.

OvrC Setup — See the OvrC documentation included in the box with this manual or go to OvrC.com.

WattBox Utility Setup — Load the DVD included in the box into a PC on the network. Open the “WattBox IP QSG” PDF and follow the instructions for using the Utility software.

Web Interface Access — After using the WattBox utility, you may access the web interface locally to continue IP configuration. Go to SnapAV.com and visit the support tab for this WattBox product for web interface documentation.

IMPORTANT SAFETY INSTRUCTIONS

Read and observe the following safety points at all times.

WARNING – Power Sources

Do not plug this Component into a power outlet that differs from the source indicated for safe use on the Component. If you don't know the type of electrical power that is supplied to your home, consult your local power company or a qualified electrician.

WARNING – Grounding and Polarization

This plug is designed to be inserted into a grounded-type outlet only. Do not force the Component plug into an outlet that is not designed to accept a three-wire grounded-type AC plus (three prong plug) Never attempt to dismantle the plug in any way (or to alter the powercord), and do not attempt to defeat the grounding feature by using a 3-to-2 prong adapter. If you have questions about grounding, consult your local power company or a qualified electrician.

This Wattbox™ component requires a properly grounded outlet for safety and to protect connected equipment. If you're not sure if your home's electrical wiring is properly grounded, have it checked by a qualified electrician.

If any rooftop devices such as satellite dishes, antennas, or any other component with wire being used that connects to the Component, be sure the wire(s) is properly grounded. This protects against voltage surges and static charges.

Do not place any antenna near overhead power lines or any other power circuit. Do not touch any power line or power circuit. Doing so may cause severe physical injury or possibly death.

WARNING – Liquid: Avoiding Electrical Shocks

Do not operate the Component if liquid of any kind is spilled onto or inside the unit. Do not operate the Component near rain or water that's spilled or contained (e.g., bathtub, kitchen, or sink).

WARNING – Power Cord Safety

When routing the Component's AC power cord, do not place it near heavy foot traffic areas (e.g., hallways, doorways, and floors). Do not create a trip hazard with the power cord.

If the power cord's protective jacket begins to rip or fray, exposing the internal wiring, shielding, etc., disconnect it from the AC power source and discontinue use of the Component immediately. See the Warranty Information section of this owner's manual for important details.

WARNING – No User Serviceable Parts Inside

If, for any reason, the Component is not operating properly, do not remove any part of the unit (cover, etc.) for repair. Unplug the unit and consult the Warranty Information section of this owner's manual for important details.

CAUTION – Exposure To Heat

Do not expose the Component to direct sunlight or place it near wall heaters, space heaters, or any enclosed space prone to temperature increase.

CAUTION – Proper Cleaning

In general, the only cleaning necessary for the Component is a light dusting. Unplug the Component from the wall outlet before cleaning it. Do not use any type of liquid or aerosol cleaners.

CAUTION – Earthing

Component should be installed by certified service personnel to ensure that the product is connected to a socket-outlet with a protective earthing connection.

TROUBLESHOOTING

Symptom	Possible Cause	Remedy
Wattbox™ is not receiving power.	Wattbox™ is not turned On.	<ul style="list-style-type: none"> • Turn Wattbox™ switch on. Make sure AC power plug is plugged into a properly grounded 120 volts (nominal) wall outlet. • In some households, a wall switch may need to be turned on to make the wall outlet active. Try turning on the light switches located near the wall outlet.
	Too many devices are connected, causing an overload, tripping the Thermal Circuit Breaker.	<ul style="list-style-type: none"> • Press Wattbox™ resettable circuit breaker button in to reset. Please allow 10 minutes before attempting to reset. If reset too soon, the breaker will prematurely sense power overload and not allow Wattbox™ to operate. • If the circuit breaker continues to trip, try moving one or more components to another Wattbox™. Too much current may be drawing through one Wattbox™.
Component is not receiving power.	Component is plugged into a controlled outlet and the outlet is off.	<ul style="list-style-type: none"> • Log into WattBox™ interface to turn the outlet On
	Component is plugged into a controlled outlet, but power on the component is not On. In some instances, a component plugged into a switched outlet won't receive power when Wattbox™ is turned On unless the component power is also switched On.	<ul style="list-style-type: none"> • Turn the component power On.
Speakers emit a humming or buzzing noise.	Wattbox™ is sharing AC power with equipment that is not properly grounded.	<ul style="list-style-type: none"> • Connect Wattbox™ to a dedicated outlet. • Try unplugging different components from Wattbox™ one at a time to see if the noise stops.

Contacting Technical Support - Phone: (866) 838-5052 - Email: Techsupport@snapav.com

SPECIFICATIONS

Outlets	
Type	NEMA 5-15
Number of Outlets	12
IP Controlled	12 Outlets
Display Link Outputs	
Display Communication	RJ45
Display Power	NEMA 5-15
AC Power	
Line Voltage	120V, 60Hz
AC Input Connection	IEC C-14
Power Cord Length	6 Feet
Circuit Breaker Rating	15A
UL Current Rating	12A
Voltage Protection Rating (UL 1449 3rd Edition)	500V
Joule Rating	3240 Joules
Surge Component	Ceramic Encased MOV
Protection Modes	L-N, L-G, N-G
Peak Impulse Current	198,000A
Disconnect Circuitry	Yes
Thermal Fuse	Yes
EMI / RFI Noise Filtration	
Filter Bank	53dB, 1kHz to 1mHz
Safe Voltage Disconnect	
Over Voltage	138V AC +/- 5V AC
Under Voltage	88V AC +/- 5V AC
Operating Temperature Range	14 to 104°F (-10 to +40°C)
UL Certifications	UL 60950-1, UL 1449, UL 498, UL 1283
Dimensions	17.02"W x 3.47"H x 3.47"D
Connected Equipment Warranty	\$50,000

WARRANTY

5-Year Limited Warranty

This SnapAV® product has a 5-Year Limited Product Warranty and a 5-Year Network Connectivity Warranty. The 5-Year Limited Product Warranty includes parts and labor repairs on all components found to be defective in material or workmanship under normal conditions of use. This warranty shall not apply to products which have been abused, modified, or disassembled. Products to be repaired under this warranty must be returned to SnapAV or a designated service center with prior notification and an assigned return authorization number (RA).

5-Year Replacement Policy

Valid only in the United States and Canada. If your SnapAV surge protector becomes damaged while protecting your connected equipment, you may request an equivalent replacement to the latest technology of that product category. Keep a copy of the original invoice to verify the date of purchase by the original buyer.

Warning Notice

WARRANTY LIMITATION FOR INTERNET PURCHASERS:

SnapAV products purchased outside of the SnapAV internet website do not carry a valid Connected Equipment Protection Policy unless purchased from an Authorized SnapAV Dealer.

CAUTION: Audio/Video, computer and/or telephone system installations can be very complex systems, which consist of many interconnected components. Due to the nature of electricity and surges, a single protector may not be able to completely protect complex installations. In those cases, a systemic approach using multiple protectors must be employed. Systemic protection requires professional design. AC power, satellite cables, CATV cables, or telephone/network lines entering the system that do not pass through this surge protector will render the SnapAV connected equipment protection policy null and void. For additional information on how to protect your system, please contact SnapAV before connecting your equipment to the surge protector.

SnapAV Surge Protector Connected Equipment Protection Policy

Valid only in the United States and Canada. It is the policy of SnapAV that it will, in its sole discretion, replace, pay to replace at fair market value, or pay to repair, up to the dollar amount specified, equipment that is damaged by an AC power, cable, telephone, or lightning surge while connected to a properly installed SnapAV surge protector. SnapAV must determine that the surge protector shows signs of surge damage or is operating outside of design specifications, relative to its surge protection capability, and under all of the circumstances failed to protect your connected equipment.

THIS POLICY IS SUBJECT TO THE CONDITIONS BELOW:

1. PROOF OF PURCHASE REQUIRED:

SnapAV's connected equipment policy extends to the original purchaser of the SnapAV product only and is non-transferable. Original purchase receipts must accompany any product return or claim for connected equipment damage.

2. PROPER INSTALLATION:

SnapAV AC protectors must be directly plugged into a properly grounded 3-wire AC outlet. Extension cords, non-grounded two prong adapters, or other non-SnapAV surge products must not be used. Building wiring and other connections to protected equipment must conform to applicable codes (NEC or CEC). No other ground wires or ground connections may be used. All wires (e.g., AC power lines, telephone lines, signal/data lines, coaxial cable, etc.) leading into the protected equipment must first pass through a single SnapAV protector designed for the particular application. The protector and the equipment to be protected must be indoors in a dry location, and in the same building. SnapAV installation instructions and diagrams must be followed.

3. NOTIFICATION:

You must notify SnapAV within fourteen days of any event precipitating a request for product replacement or payment for connected equipment damage. A return authorization (RA) number must first be obtained from the SnapAV Customer Service Department at www.snapav.com/support before returning the protector to SnapAV. At this time, you must notify SnapAV if you believe you have a claim for damaged connected equipment.

Once you obtain an RA number, please mark the number on the bottom of the unit and pack it in a shipping carton/box with enough packing material to protect it during transit. The RA number must also be clearly marked on the outside of the carton. Ship the unit to SnapAV. Please note that you are responsible for any and all charges related to shipping the unit to SnapAV.

If connected equipment damage was indicated on your RA request, SnapAV will request the make and model of all connected equipment, a connection diagram of your system, as well as other requests based on the extent of the request for product placement or payment for connected equipment damage. All requests by SnapAV are to be completed and returned within 30 days. Be sure to note its configuration before disconnecting your equipment.

4. DETERMINATION OF FAILURE:

SnapAV will evaluate the protector for surge damage. The protector must show signs of surge damage or must be performing outside of design specifications relative to its surge protection capability. Opening the enclosure, tampering with, or modifying the unit in any way shall be grounds for an automatic denial of your request for payment. SnapAV, after evaluating all information provided, shall, in its sole discretion, determine whether or not your request is eligible for payment.

If the surge protector shows no signs of AC power or signal line surge damage and is working within design specifications, SnapAV will return the unit to you explaining the test results and notifying you of the rejection of your claim. SnapAV reserves the right to inspect the damaged connected equipment, parts, or circuit boards. SnapAV also reserves the right to inspect the customer's facility. Damaged equipment deemed uneconomical to repair must remain available for inspection by SnapAV until the claim is finalized.

5. REQUEST PAYMENTS:

Once SnapAV has determined that you are entitled to compensation, SnapAV will, at its election, pay you the present fair market value of the damaged equipment, or pay for the cost of the repair, or send you replacement equipment, or pay the equivalence of replacement equipment.

6. OTHER INSURANCE/WARRANTIES:

This coverage is secondary to any existing manufacturer's warranty, implied or expressed, or any insurance and/or service contract that may cover the loss.

7. EXCLUSIONS:

THE SNAPAV SURGE PROTECTOR EQUIPMENT POLICY DOES NOT APPLY TO: Service charges, installation costs, reinstallation costs; setup cost; diagnostic charges; periodic checkups; routine maintenance; loss of use of the product; costs or expenses arising out of reprogramming or loss of programming and/or data; shipping charges or fees; service calls; loss or damage occasioned by fire, theft, flood, wind, accident, abuse or misuse; and products subject to manufacturer's recall or similar event.

8. DISPUTE RESOLUTION:

Any controversy or claim arising out of or relating to SnapAV's Surge Protector Equipment Policy, or the alleged breach thereof, shall be settled by arbitration administered by the American Arbitration Association under its Commercial Arbitration Rules. You may file for arbitration at any AAA location in the United States upon the payment of the applicable filing fee. The arbitration will be conducted before a single arbitrator, and will be limited solely to the dispute or controversy between you and SnapAV. The arbitration shall be held in any mutually agreed upon location in person, by telephone, or online.

Any decision rendered in such arbitration proceedings will be final and binding on each of the parties, and judgment may be entered thereon in a court of competent jurisdiction. The arbitrator shall not award either party special, exemplary, consequential, punitive, incidental or indirect damages, or attorney's fees. The parties will share the costs of arbitration (including the arbitrator's fees, if any) in the proportion that the final award bears to the amount of the initial claim.

9. GENERAL

If you have any questions regarding the product warranty or the connected equipment protection policy, please contact the SnapAV Customer Service Department at www.snapav.com/support. This warranty supersedes all previous warranties. This is the only warranty provided with the protector and any other implied or expressed warranties are nonexistent. This warranty may not be modified except in writing, signed by an officer of the SnapAV Corporation.

CONTACTING TECHNICAL SUPPORT

Phone: (866) 838-5052 - **Email:** Techsupport@snapav.com

WATT BOX

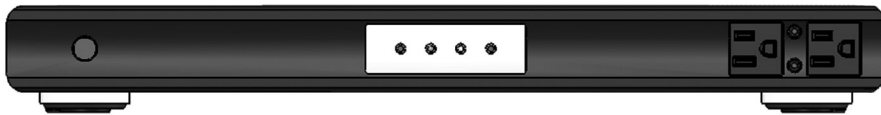
engineered by
Snap

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WB-200-9HTR Manual & Instructions

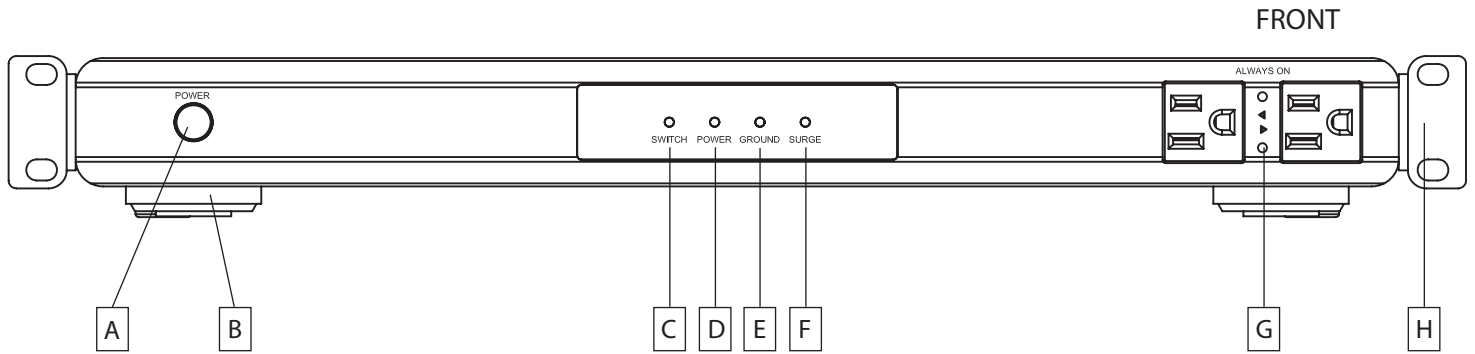
WattBox™ Home Theater Rack Mountable Surge Protector (9 Outlets -5400J) -80db EMI/RFI -15 AMP -Black)



Congratulations on purchasing the WB-200-9HTR
WattBox™ Home Theater Rack Mountable Surge Protector.

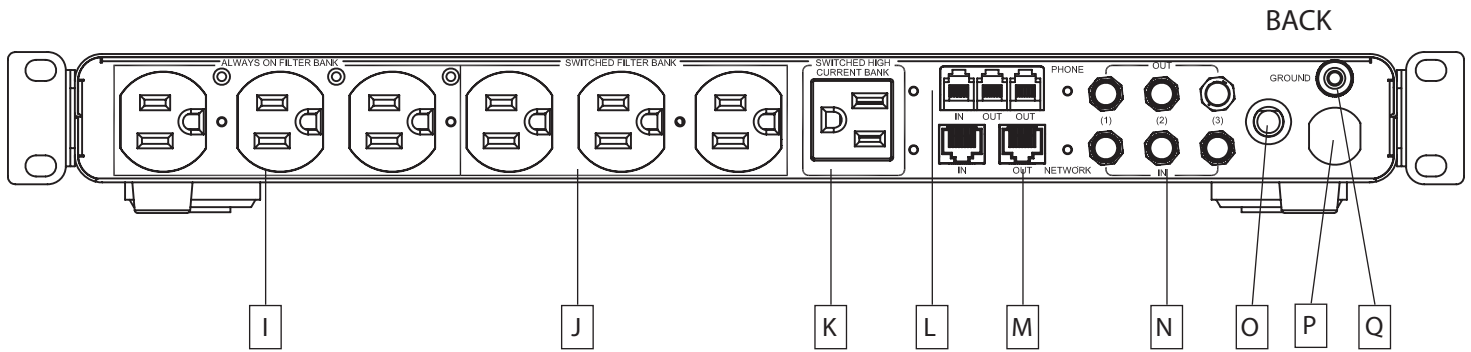
IMPORTANT SAFETY INSTRUCTIONS

1. Read, follow and heed all instructions and warnings regarding installation and operation of this product.
2. The surge protector is intended for indoor use only. Internal components are not sealed from the environment and MUST be installed indoors.
3. To ensure complete equipment protection, when applicable, connect all power, telephone, network, and coax lines from your equipment to a surge protection device. All potential paths that must be protected from damaging power surges.
4. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers).
5. Do not install the unit near water or where moisture is present.
6. Clean with a dry cloth.
7. Do not plug extension cords into the unit.
8. Plug the unit into a 3-wire, 120-volt, grounded outlet only. If, at any time, the Building Wiring Fault indicator illuminates, have a qualified electrician correct the service wiring.
9. Protect the power cord from being walked on or pinched, particularly at the plug, convenience receptacles, and the point where it exits from the apparatus.
10. Never install electrical, telephone, DSS or CATV wiring during a lightning storm.
11. The unit is designed to provide maximum protection on standard "dial-up" telephone service. Other communication networks which use modular jacks may not benefit from this protection.
12. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. To completely disconnect this equipment from the AC mains, disconnect the power supply cord plug from the AC receptacle.



PRODUCT FEATURES AND OPERATION

- A. MASTER POWER SWITCH: turns power on to switched outlets.
- B. REMOVEABLE CONSOLE FEET: Allows placement on a shelf as a console component within a system. Unscrew feet prior to rack mounting.
- C. SWITCH: Indicates that AC power is available at the switched outlets.
- D. POWER: Indicates AC power is available at the wall outlet where the unit is plugged in.
- E. GROUND: Indicates wall outlet is grounded and surge protection can properly function.
- F. SURGE: Indicates the surge suppression components are intact and providing complete protection against surges.
- G. FRONT PANEL OUTLETS: Provides a convenient power source (with surge suppression and line noise filtering) for devices not normally part of your component system, including game systems, video recorders or battery chargers.
- H. RACKMOUNT HARDWARE: Allows mounting in standard size (19 inch) racks.
- I. ALWAYS ON FILTER BANK: Provides a power source (with surge suppression and line noise filtering) for equipment that should have a continuous source of power.
- J. SWITCHED FILTER BANK: Provides a power source (with surge suppression and line noise filtering) for equipment that will be powered on and off by the power switch on the front panel (see letter A).
- K. SWITCHED HIGH CURRENT BANK: A power source ideal for equipment such as amplifiers and subwoofers that draw much current and it's noise is isolated from the other bank of outlets.
- L. PHONE/FAX/DSL LINE: Protects connected equipment against surge damage and line noise distortion on a single dial-up line. A built-in splitter (one jack in and two jacks out) allows you to simultaneously protect and connect two devices sharing a single line.
- M. NETWORK LINE: protection circuits against surge damage and line noise distortion for ethernet lines.
- N. CABLE/DSS/ANTENNA: 3 pairs of bidirectional protection circuits optimized for satellite, cable, and antenna TV signal lines.
- O. CIRCUIT BREAKER: automatically opens when the current load exceeds 15 Amps. Push to reset.
- P. POWER CORD: provides power from the wall outlet and must be plugged into a properly wired and grounded 3-wire outlet.
- Q. GROUND LUG: Provides a common grounding point for equipment with separate ground leads



INSTALLATION

1. Determine if the unit will be placed on a console or mounted onto a rack. Place the unit on a shelf as a console component or use the rackmount hardware to mount it in any standard size rack. To mount the unit in a rack, first remove the console feet by unscrewing them. Install four user-supplied rackmount screws through the unit's rackmount hardware holes and into the rack rails.
2. Plug the power cord into a standard, 3-wire grounded 120V AC, 60 Hz. outlet. Verify power is coming to the unit by visually checking for an illuminated POWER LED on the front panel. Verify that the unit is properly grounded by visually checking for an illuminated GROUND LED on the front panel. If this light DOES NOT illuminate and power is present, consult a qualified electrician to examine your outlet's wiring.
3. Press the master power switch and visual check for an illuminated SWITCH LED. This indicates that power is supplied at the switched outlets of the unit.
4. Check that the surge feature is working properly by visually checking for an illuminated SURGE LED on the front panel.
5. Connect equipment into the AC outlets. DO NOT plug in extension cords and DO NOT OVERLOAD. This unit can accommodate a total equipment load of up to 15 amps (whether plugged into a single outlet or spread out over multiple outlets). If the load exceeds 15 amps, the circuit breaker will trip and power will be turned off at all outlets. For the unit to operate correctly, unplug the unit from the wall outlet, press the master power switch to the off position (fully extended), press the circuit breaker to reset the unit, and reduce the load by unplugging some devices.

CAUTION: The telephone protection feature of this product could be inoperable if improperly installed.

CAUTION: To reduce the risk of electrical shock, inspect the premises carefully. Do not use the unit if proper equipment grounding cannot be verified.

CAUTION: If the unit has been struck by a surge and the light is no longer illuminated, reset the unit. If indicator light does not illuminate, the unit has done its job and protected the equipment. The outlets will still work but you no longer are protected against surges. Please contact Snap AV to request an equivalent replacement as per Snap AV's Surge Protector Equipment Policy.

NOTE: This device features an internal protection that will disconnect the surge protective component at the end of its useful life but will maintain power to the load - now unprotected: If this situation is undesirable for the application, follow the Lifetime Replacement Policy found in SnapAV's Surge Protector Warranty Policy.

For customer assistance call 1.866.838.5052

Snap AV's Surge Protector Equipment Warranty Policy

SnapAV™ Surge Protector Lifetime Product Warranty

SnapAV™ warrants to the purchaser of any standard SnapAV™ surge protector that the surge protector shall be free of defects in design, material, or workmanship, and SnapAV™ will repair or replace any defective unit. For product replacement, see "NOTIFICATION" below.

Lifetime Replacement Policy

Valid only in the United States and Canada. If your SnapAV™ surge protector becomes damaged while protecting your connected equipment, you may request an equivalent replacement to the latest technology of that product category. Keep a copy of the original invoice to verify the product belongs to the original purchaser.

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5. REQUEST PAYMENTS:

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6. OTHER INSURANCE/WARRANTIES:

This coverage is secondary to any existing manufacturer's warranty, implied or expressed, or any insurance and/or service contract that may cover the loss.

7. EXCLUSIONS:

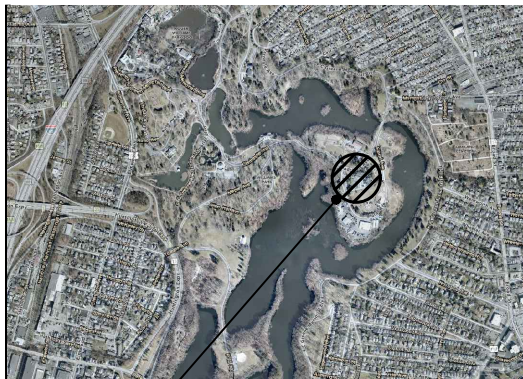
THE SnapAV™ SURGE PROTECTOR EQUIPMENT POLICY DOES NOT APPLY TO: Service charges, installation costs, reinstallation costs; setup cost; diagnostic charges; periodic checkups; routine maintenance; loss of use of the product; costs or expenses arising out of reprogramming or loss of programming and/or data; shipping charges or fees; service calls; loss or damage occasioned by fire, theft, flood, wind, accident, abuse or misuse, and products subject to manufacturer's recall or similar event.

8. DISPUTE RESOLUTION:

Any controversy or claim arising out of or relating to SnapAV™ Surge Protector Equipment Policy, or the alleged breach thereof, shall be settled by arbitration administered by the American Arbitration Association under its Commercial Arbitration Rules. You may file for arbitration at any AAA location in the United States upon the payment of the applicable filing fee. The arbitration will be conducted before a single arbitrator, and will be limited solely to the dispute or controversy between you and Snap AV. The arbitration shall be held in any mutually agreed upon location in person, by telephone, or online.

Any decision rendered in such arbitration proceedings will be final and binding on each of the parties, and judgment may be entered thereon in a court of competent jurisdiction. The arbitrator shall not award either party special, exemplary, consequential, punitive, incidental or indirect damages, or attorney's fees. The parties will share the costs of arbitration (including the arbitrator's fees, if any) in the proportion that the final award bears to the amount of the initial claim.

9. GENERAL: If you have any questions regarding the product warranty or the connected equipment protection policy, please contact the SnapAV™ Customer Relations Department at www.snapav.com/support. This warranty supersedes all previous warranties. This is the only warranty provided with the protector and any other implied or expressed warranties are nonexistent. This warranty may not be modified except in writing, signed by an officer of the SnapAV™ Corporation.



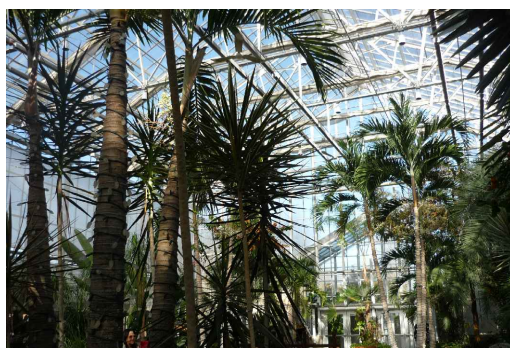
PROJECT LIMITS

LOCATIONS

- ① CONSERVATORY
- ② HALLWAY
- ③ KOI POND
- ④ MEDITERRANEAN ROOM
- ⑤ GREEN HOUSE #3
- ⑥ GREEN HOUSE #4
- ⑦ ATRIUM
- ⑧ OUTDOOR (1, 2, 3 & 4)
- ⑧A ADD ALTERNATE #1
- ⑨ AV CLOSET/RACK



NORTH
SOURCE: ARCGIS MAPS, 2022



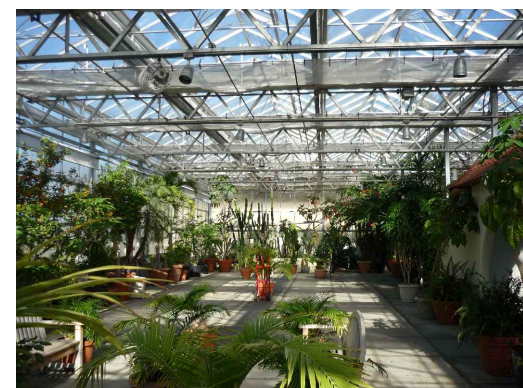
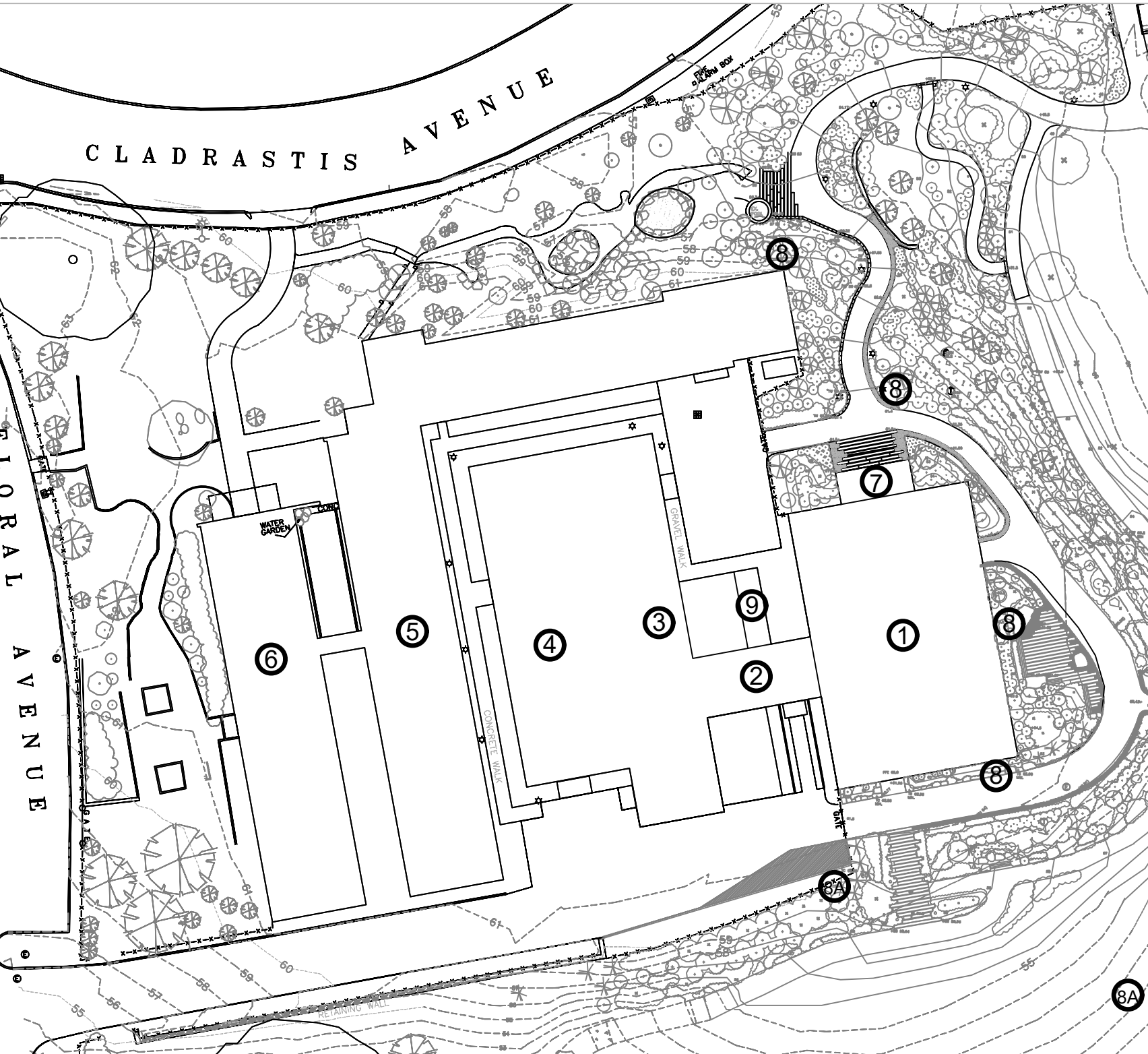
① CONSERVATORY



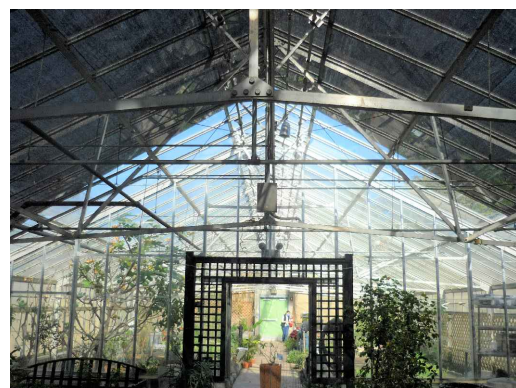
② HALLWAY



③ KOI POND



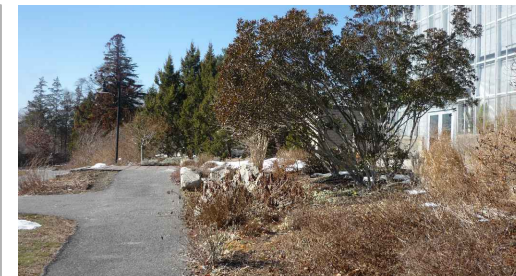
④ MEDITERRANEAN ROOM



⑤ GREEN HOUSE #3



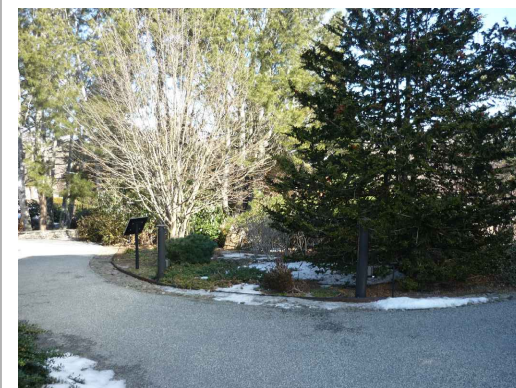
⑥ GREEN HOUSE #4



⑧ OUTDOOR 4



⑧ OUTDOOR 3



⑧ OUTDOOR 2



⑧ OUTDOOR 1



⑦ ATRIUM

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NO.	REVISION	DATE

BOTANICAL CENTER SITE DIAGRAM
BOTANICAL CENTER SOUND SYSTEM IMPROVEMENTS
1000 Elmwood Ave, Providence, RI 02907
FILE: BC_Site Diagram 2-8-22.dwg

DATE:
02/15/2022

SCALE:
NOT TO SCALE

DRAWN BY:
PK

SHEET NO.
L-1

CHECKED/
APPROVED:
BB/MG

OF
1