Owner’s Manual

Insight Series P3m
Sound Bar and LCR
Planar Magnetic Soundbar Loudspeaker

Insight P3m-LCR
Insight P3m-LR
Insight P3m-C
Insight P3m-V

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DOCUMENT CONVENTIONS

This document contains general safety, installation, and operation instructions for the Wisdom Audio Insight Series P3m Loudspeaker. It is important to read this document before attempting to use this product. Pay particular attention to:

WARNING: Calls attention to a procedure, practice, condition or the like that, if not correctly performed or adhered to, could result in injury or death.

CAUTION: Calls attention to a procedure, practice, condition or the like that, if not correctly performed or adhered to, could result in damage to or destruction of part of or the entire product.

Note: Calls attention to information that aids in the installation or operation of the product.

Introduction

Congratulations on purchasing your Wisdom Audio Insight P3m Series Speaker. The P3m Series speakers incorporate many design features engineered to give you decades of enjoyment. Many of these design elements are uncommon among other loudspeakers, and are therefore described in the following section, "*Technical Overview*".

The P3m is available in several versions, from multi-channel soundbar to single channel, all of which use the same speaker module for uniform sound delivery. Models are ordered in customized lengths to fit your unique installation[1]. The P3m-V (vertical mount) is shipped in a stock length of 16.25" (413mm) but is also available in custom lengths. See chart below for all variants and sizing. Custom colors are also available.

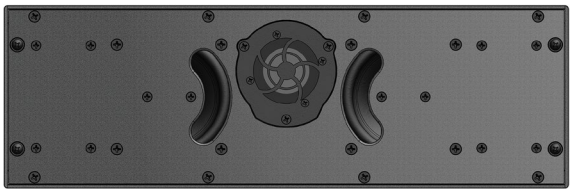
Model	Description	Minimum Length	Maximum Length
P3m-LCR	Left, Center, Right Soundbar	48.275" (1226mm)	100" (2540mm)
P3m-LR	Left Right Soundbar	32.275" (820mm)	100" (2540mm)
P3m-C	Center Soundbar/Speaker (Single Ch.)	16.25" (413mm)	100" (2540mm)
P3m-V	Vertically Orientated Soundbar/Speaker	16.25" (413mm)	100" (2540mm)

[1]*All models are custom built to length. The standard size for the P3m-V is 16.25" (413mm). For larger sizes, please contact Wisdom Audio.*

[2] *Minimum TV Height with VESA Mount is 20.6" [523mm].*

All models are shipped with Wisdom's cleat style wall mounting brackets. Also available is an optional VESA mount. The supplied wall brackets allow the speakers to be mounted directly to wall surfaces in either horizontal or vertical orientation. Soundbars and center speakers are shipped with the brackets configured for horizontal orientation, while the P3m-V single channel model is configured for vertical orientation. Attachment points on the back of each model allow for the use of our optional VESA-standard TV mount.[2]

Contact Wisdom Audio Sales for specific details on sizes and customization.
Info@wisdomaudio.com



P3m-C w/o Grille
16.25" (413mm)



P3m-C with Grille
16.25" (413mm)

Technical Overview

One of Wisdom Audio's key technologies is the planar magnetic driver (PMD). We have spent decades developing and using an advanced thin film membrane to move air and create detailed sound. This film is exceedingly light, giving it very low inertia, which allows it to respond to the input signal with great accuracy. Variations of this PMD technology are implemented from our top-line to our entry-level models.

For the P3m, we use a circular version with a spiral voice coil. Our Spiral PMD (SPMD) is used for the high frequencies, operating down to an amazing 900 Hz, a full 2 octaves lower than most conventional dome tweeters. By moving the crossover point down to a less critical frequency, more of the critical vocal region, of which our ears are most sensitive, is reproduced by a single drive component.

Another remarkable characteristic of well-designed planar magnetic speakers is their lack of thermal or dynamic compression. This is largely due to the exposed voice coil which is spread out across the surface of the PMD film, allowing it to cool quickly through radiation and conduction with the air on both sides. Since heat does not build up in the voice coil (as it does in conventional dynamic drivers), the load seen by the amplifier does not change at high power levels. When a huge transient comes along, any heat that is generated is immediately dissipated. Conventional drivers have their voice coil buried inside a massive metal structure where the heat is highly constrained.

Spreading the voice coil of a PMD across the diaphragm has another positive attribute. The PMD presents itself as a nearly purely resistive load to the amplifier with extremely low inductance. This amplifier loading is nearly identical to the simple test loads that amplifier companies use when measuring their amplifiers to show how terrific they are. As such, you can be assured that your amplifiers will sound and work as optimally as they measure.

All variations of the 3Pm are built using the same WTW (woofer-tweeter-woofer) module that utilizes Helmholtz resonators and shrouded woofers to crop the radiating surface, widen the off-axis listening window, smooth the frequency response, and reduce distortion. Employing this platform across all the models ensures phase coherence and uniform sound throughout the listening area. You will experience better imaging, a greater sense of envelopment, and a deeper sound field.

In the P3m Series speakers, we utilize dual 4" woofers to do the heavy lifting of the low-frequencies and lower mid-range. The shrouded loading allows a lower-than-normal frequency extension, giving the P3m surprisingly robust low frequency output when

used without a subwoofer. However, a subwoofer is highly recommended since it will yield the finest performance available from your system.

When you become accustomed to the sound of your new **Insight Series P3m** speakers, conventional speakers will sound a bit bland and lifeless. You may also discover yourself hearing details at even modest levels on the P3m that were previously inaudible, even at loud levels, on more conventional speakers.

Included Accessories

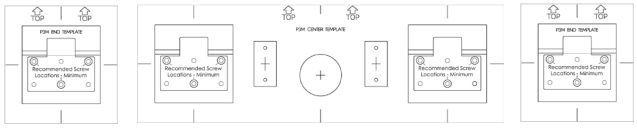
1. Wall-side Mounting Bracket



2. Hollow-wall Anchor (3-4 per bracket)



3. Mounting Templates



Unpacking the P3m

Your new **Wisdom Audio Insight P3m Series** on-wall loudspeaker is relatively compact but surprisingly heavy compared to most on-wall speakers. Please exercise caution when unpacking the larger P3m models to ensure that you do not strain yourself.

Carefully lift the speaker out of the box and lay it on a soft surface (carpet or similar).

Unwrap the material that protects the finish of your speaker. Your P3m is now ready to be installed.

After unpacking your P3m, keep all packing materials for future transport.

If you need to ship your speaker, only the original, purpose-designed shipping carton is acceptable. Any other method of shipping this product runs a significant risk of damage to the speaker – damage that would not be covered by the warranty. (If you lose your packaging and need to ship your speakers, replacement packaging can be purchased from Wisdom Audio.)

Wall Mounting P3m

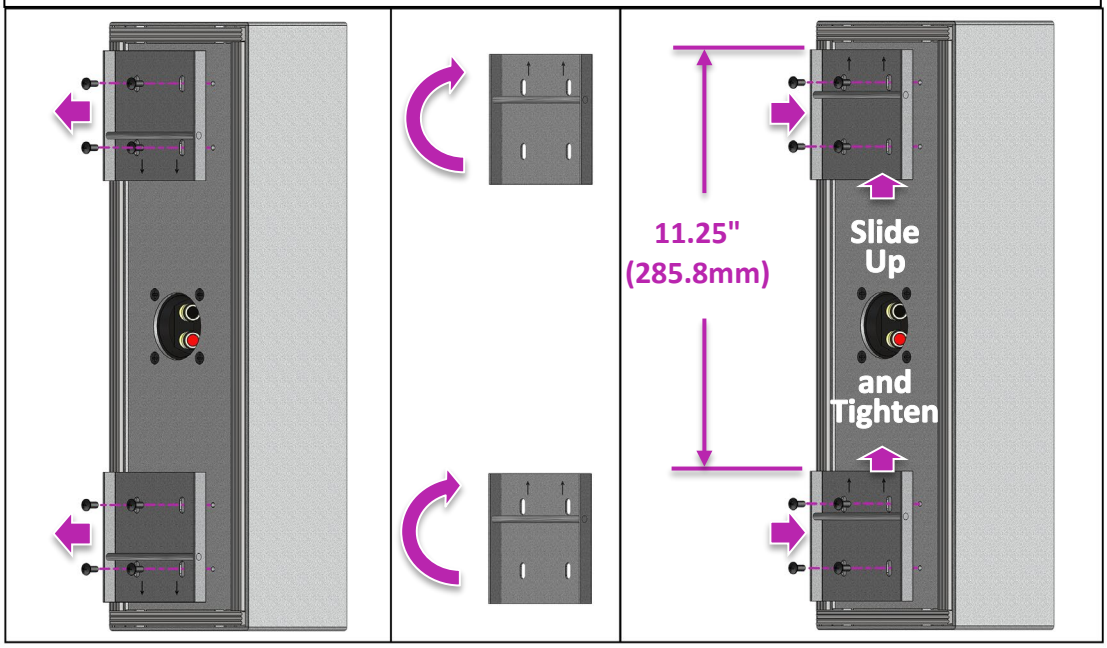
All versions of the P3m are shipped with brackets for wall-mounting. These are comprised of two components, the speaker bracket and the wall-side bracket. The speaker brackets come pre-attached to the speakers. All versions of the P3m, except for the P3m-V, are shipped with the speaker brackets configured for horizontal mounting.

The P3m-V ships from the factory with brackets oriented for vertical mounting in a single direction. We recommend changing the bracket orientation on the right speaker so that they are mirror imaged when mounted. To match our center channel speaker, the tweeters should be oriented to the inside.

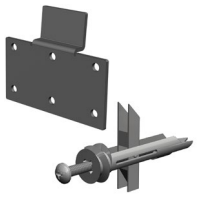


Change the mounting bracket orientation as follows:

Speaker Bracket Rotation Procedure (Vertical Orientation Shown)

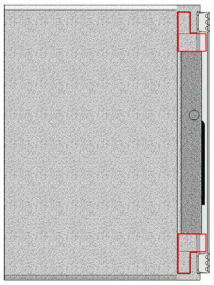


The wall-side mounting brackets and the accessory hardware are shipped in a small plastic bag inside the packaging of the loudspeaker.



Please note that this guide assumes the wall surface is flat. If it is not, shims must be placed, as needed, behind the wall-side brackets so that they are uniformly secured to the wall and flat (not distorted).

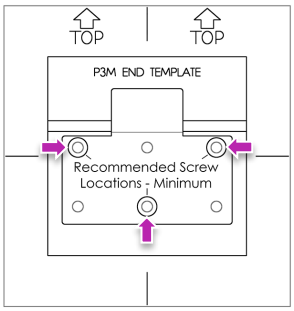
1. Determine the location of the speaker. If you have not installed the speaker cables, do so now. Use the location of the input terminals to guide your decisions about cable routing. Note: There is space on the backside of the speaker enclosure and channels that allow for concealed cable routing, (outlined in red in this sideview).



2. Using the installation template(s) included in the box, tack or tape the template to the wall in the location where the speaker is to be installed. Transfer the measured distance between the brackets to the templates. For speaker models that use 4 mounting brackets, a long level or laser level is recommended for establishing the height of the outermost brackets.

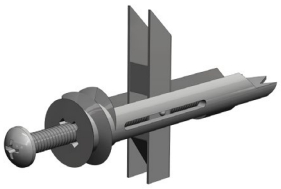


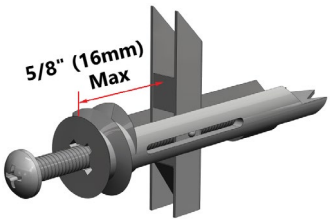
3. Mark or drill holes at the three highlighted locations for each wall-side bracket. (Two on the top row and one on the bottom.) Additional hole locations are provided if needed.



Screwing into Gypsum

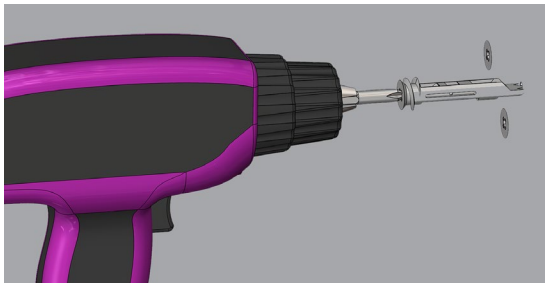






NOTE: Toggles can be used in walls up to 5/8" (16mm) thick.

a. If using the hollow wall anchors in gypsum/drywall, no pilot hole is required as they are self-drilling. Mark all the anchor locations and then remove the template from the wall. Use a standard #2 Phillips bit with a drill to drive them in. Use care to ensure the anchors remain centered on the markings and do not wander when drilling.



Screwing into Wood



b. If screwing into wood using the screws that came with the anchors, pre-drill 3/32" (2.5mm) diameter holes to a minimum depth of 2" (51 mm). Use care to ensure the holes are drilled precisely on center. This will ensure the brackets are properly aligned after installation. Remove the templates from the wall.



4. Install the wall-side brackets. Ensure you use at least 3 screws per bracket. The top holes carry most of the load, so it is important that you use at least 2 of the holes in the top row. Check the brackets for alignment using a level or string.

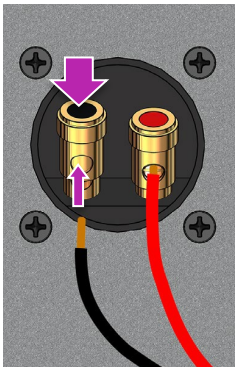


Finalizing Installation (Connections and Mounting)

As with any system, you should make changes to the connections only when the amplifier power is turned off to avoid any chance of inadvertently causing a problem (such as a short-circuit).

We recommend using heavy-gauge speaker wire, particularly when the installation forces you to use longer wires than you might otherwise. A good rule of thumb is to keep the "loop resistance" below 0.07 ohms. For residential systems, 14-gauge is sufficient when the amplifiers are within the same room as the speakers.

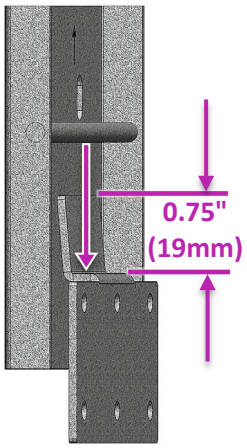
1. Connecting the input cables can be a bit cumbersome because the input cables must be kept fairly short, which necessitates that the speaker is positioned close to the wiring. This can be achieved with an assistant, depending on the size of the speaker, or by finding a sturdy surface on which to rest the speaker while the connections are made. Use care to protect the speaker and the surface by using packaging material or other protective layers between the two.



2. Connect the outputs of your amplifier to the appropriate sections, taking care to get both the channel assignments (Left, Center, Right) and the polarity correct. (One set of speaker cables is required for each P3m loudspeaker module/channel.)

    a. Connect the positive (+) terminals on the amplifier to the positive (+) terminals on the loudspeaker. Likewise, connect the negative (–) terminals of the amplifier to the negative (–) terminals on the loudspeaker.

3. Position the speaker on the wall, over the top of the mounting brackets, and lower it down slowly until you feel the speaker's weight being taken by the bracket. The speaker will NOT snap into position. Do not release the speaker until you're certain it is fully supported by the brackets.



    Note: 3/4" (19mm) of clearance is required above the speaker to hang the bracket. If a display screen is already installed, it may require that it be temporarily moved or removed prior to placing the speakers on the brackets.

    Should you need to remove the speaker from the bracket for any reason, simply raise it upwards until it comes free of the wall-side bracket. The speaker can be quite heavy so ensure you have enough help to support the speaker. Also, ensure that you have a surface available on which to set the speaker.

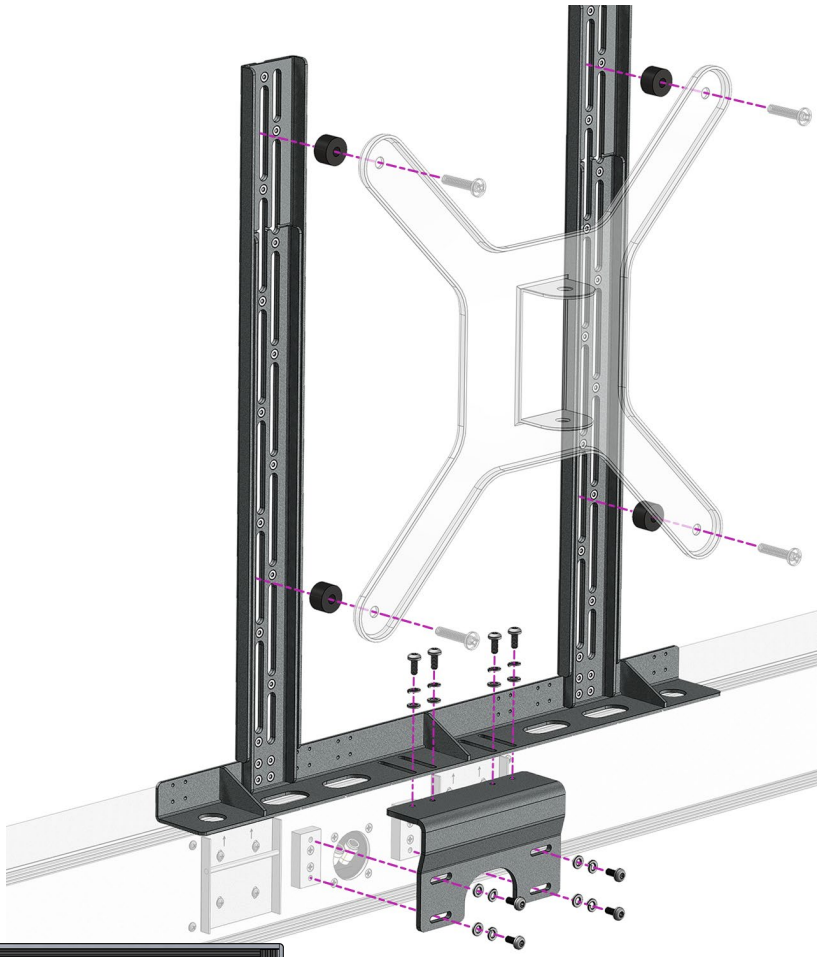
Using the VESA Speaker Mount

M6 mounting provisions on all P3m models accept Wisdom Audio's VESA speaker mount or third party mounting brackets. The Wisdom bracket assembly is shipped with 3 adapters to accommodate different television depths from 1" to 4" (25mm to 104mm). The mount accommodates 200mm, 300mm, 400mm, and 600mm wide VESA standards; up to 800mm high (depending on TV mount locations).

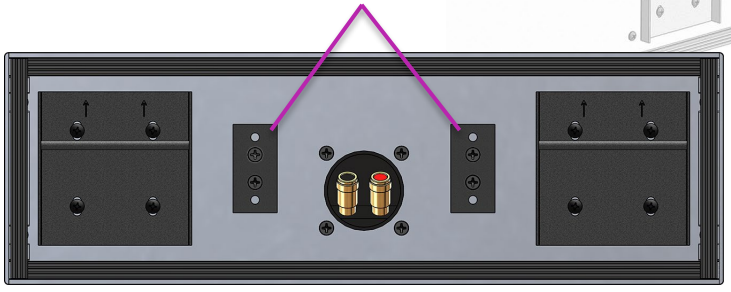
The VESA speaker mount is placed between the television and your VESA TV mount. Use the supplied spacers as needed to provide clearance between the bracket and the television mount. **Note: Minimum TV Height with Wisdom VESA Mount is 20.6" [523mm].**

Use the VESA adapter that best fits the depth of your television.





Rear of P3m-C Showing M6 VESA Mounting Locations



The P3m and Subwoofers

While the P3m speakers are incredibly capable and offer remarkably satisfying low frequency performance, they are best suited for use with subwoofers. Systems that utilize subwoofers not only benefit from better low frequency performance, but also lower distortion due to the lower workload on the woofers of the P3m. Like our other Insight Series loudspeakers, they are optimized for use with a subwoofer crossover frequency of 80 Hz. (This is a common frequency below which subwoofers are used.)

Should you setup your bass management through your surround processor, ensure you set the speaker size to “Small” for all P3m channels, and use an 80 Hz crossover to optimize the speaker’s output. Doing so ensures that all content below 80 Hz is directed to the subwoofer(s) for reproduction.

Care and Maintenance

To remove dust from the front of your P3m, use a feather duster or a lint-free soft cloth.

To remove stubborn dirt and fingerprints from the grille, we recommend isopropyl alcohol and a soft cloth. Lightly dampen the cloth with alcohol first and then clean the grille of the P3m with the cloth. Do not use excessive amounts of alcohol. The cloth should not be wet, only damp.

Never attempt to clean the drivers themselves.

CAUTION!

Do not touch the surface of the planar magnetic drivers, under any circumstances. The thin film has been carefully pre-tensioned at the factory; any subsequent contact can only damage it.

North American Warranty

Standard Warranty
When purchased from and installed by an authorized Wisdom Audio dealer, Wisdom Audio loudspeakers Insight Series Passive Loudspeakers are warranted to be free from defects in material and workmanship under normal use for a period of five (5) years from the original date of purchase.

Harsh Conditions Use
Wisdom Audio loudspeakers are designed for installation and operation in environmentally controlled conditions, such as are found in normal residential environments. When used in harsh conditions such as outdoors or in marine applications; or indoor in saunas, steam rooms, etc..; the warranty is three (3) years from the original date of purchase.

During the warranty period, any Wisdom Audio products exhibiting defects in materials and/or workmanship will be repaired or replaced, at our option, without charge for either parts or labor, at our factory. The warranty will not apply to any Wisdom Audio products that have been misused, abused, altered, or installed and calibrated by anyone other than an authorized Wisdom Audio dealer.

Any Wisdom Audio product not performing satisfactorily may be returned to the factory for evaluation. Return authorization must first be obtained by either calling or writing the factory prior to shipping the component. The factory will pay for return shipping charges only if the component is found to be defective as mentioned above. There are other stipulations that may apply to shipping charges.

There is no other express warranty on Wisdom Audio products. Neither this warranty nor any other warranty, express or implied, including any implied warranties of merchantability or fitness, shall extend beyond the warranty period. No responsibility is assumed for any incidental or consequential damages. Some states do not allow limitations on how long an implied warranty lasts and other states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This warranty is applicable in the United States and Canada only. Outside of the U.S. and Canada, please contact your local, authorized Wisdom Audio distributor for warranty and service information.

Obtaining Service

We take great pride in our dealers. Experience, dedication, and integrity make these professionals ideally suited to assist with our customers' service needs.

If your Wisdom Audio loudspeaker must be serviced, please contact your dealer. Your dealer will then decide whether the problem can be remedied locally, or whether to contact Wisdom Audio for further service information or parts, or to obtain a Return Authorization. The Wisdom Audio Service Department works closely with your dealer to solve your service needs expediently.

IMPORTANT: Return authorization must be obtained from Wisdom Audio's Service Department BEFORE a unit is shipped for service.

It is extremely important that information about a problem be explicit and complete. A specific, comprehensive description of the problem helps your dealer and the Wisdom Audio Service Department locate and repair the difficulty as quickly as possible.

A copy of the original bill of sale will serve to verify warranty status. Please include it with the unit when it is brought in for warranty service.

CAUTION: All returned units must be packaged in their original packaging, and the proper return authorization numbers must be marked on the outer carton for identification. Shipping the unit in improper packaging may void the warranty, as Wisdom Audio cannot be responsible for the resulting shipping damage.

Your dealer can order a new set of shipping materials for you if you need to ship your loudspeaker and no longer have the original materials. There will be a charge for this service. We strongly recommend saving all packing materials in case you need to ship your unit someday.

If the packaging to protect the unit is, in our opinion or that of our dealer, inadequate to protect the unit, we reserve the right to repackage it for return shipment at the owner's expense. Neither Wisdom Audio nor your dealer can be responsible for shipping damage due to improper (that is, non-original) packaging.

Specifications

All specifications are subject to change at any time to improve the product.

P3m (All Versions)

Frequency Response	80Hz – 20kHz +/- 3dB
Low Frequency Extension	60hz (-6dB) 50hz (-10dB)
Recommended High Pass Crossover	80Hz 24dB Linkwitz Riley Crossover
Impedance	5.2 ohm @ 460Hz, 4.1 ohm @ 20kHz 4 ohms Minimum
Sensitivity	85dB 2.83V @ 1m
Coverage Angle Horizontal x Vertical (-6db)	100° x 100°
Recommended Minimum Amplifier	75 Watts
Maximum Continuous Power Handling	200 Watts
TV Sizes	Up to nominal 110" diagonal TV sizes
Depth with Wall Mount	3.881" [98.7mm]

Dimensions – Horizontal Version:

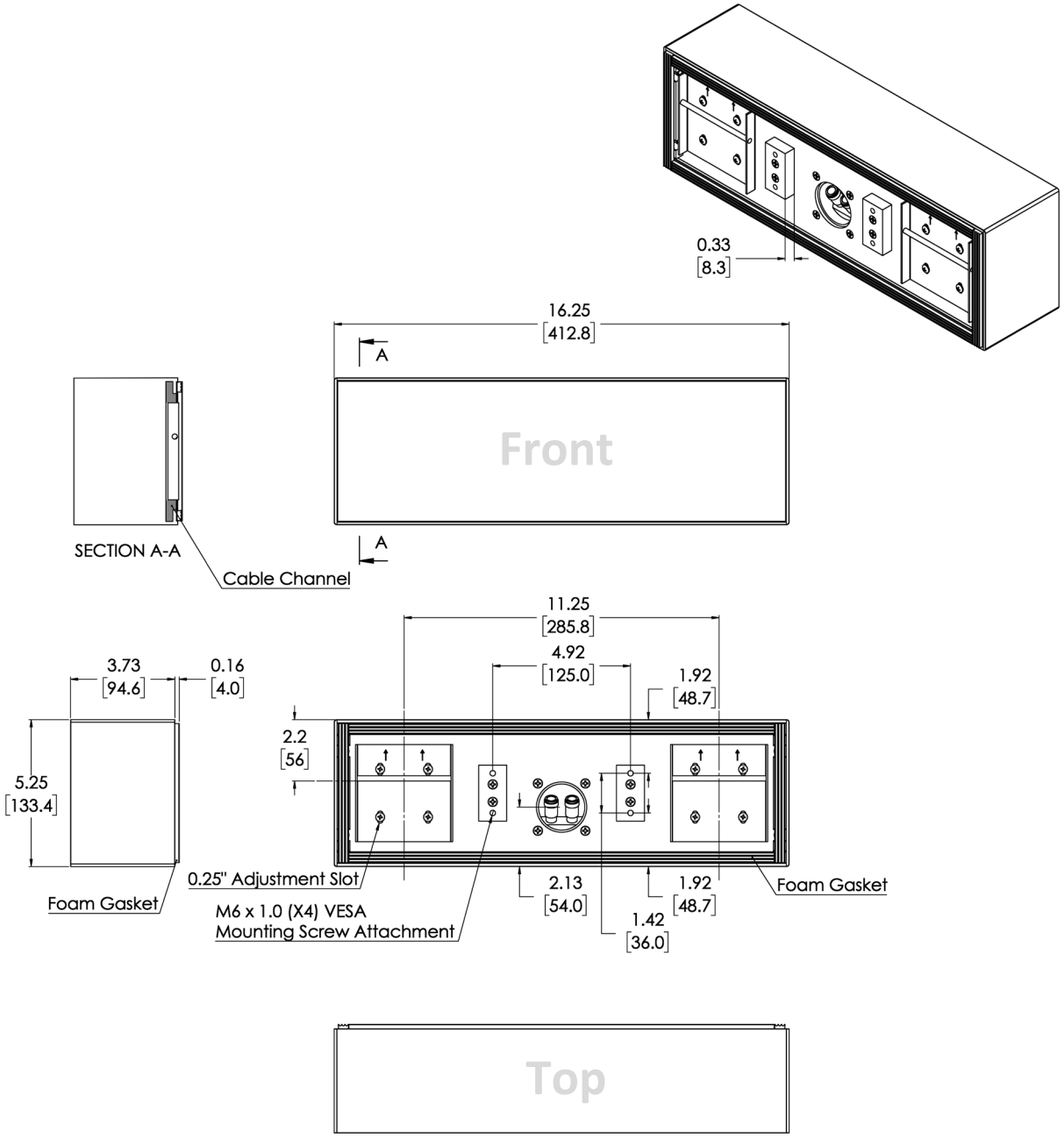
- Height: 5.25" (133.4mm)
- Maximum Width: 100" (2540mm)
- Minimum Width
  - P3m-LCR: 48.275" [1226mm]
  - P3m-LR: 32.275" [820mm]
  - P3m-C: 16.25" (413mm)

Dimensions – Vertical Version:

- Width: 5.25" (133.4mm)
- Maximum Height: 100" (2540mm)
- Minimum Height: P3m-V: 16.25" (413mm)

For more information, see your Wisdom Audio dealer or contact:

P3m Dimensions



X.XX = Inches
[X.X] = mm



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