MARTIN LOGAN ABYSS 8
High Resolution
Subwoofer System

MARTIN LOGAN ABYSS 8 High Resolution Subwoofer System User Manual

Contents

MARTIN LOGAN ABYSS 8 High Resolution Subwoofer System

Specifications:

- Max temperature: 40°C
- Min temperature: -33°C
- Max altitude: 2000m
- Max humidity: 95% non-condensing

Product Information

The product is designed to provide audio signal connections and features a subwoofer with a power cord included. It complies with various directives such as the European Union WEEE directive and FCC Rules. The product also comes with a warning regarding changes or modifications that could void the user's authority to operate the equipment.

Product Usage Instructions

Unboxing & Contents:

When unboxing the product, ensure the following items are included:

- Power Cord
- Subwoofer

Audio Signal Connections:
The product allows for audio signal connections, including the option for an additional subwoofer connection.

Follow these steps for audio signal connections:

1. Identify the LFE (Low-Frequency Effects) input on the subwoofer.
2. Connect the audio source to the subwoofer using appropriate cables.
3. Ensure a secure connection to enjoy optimal audio performance.

FAQ:

Q: How do I find my local distributor for recycling purposes?
A: To find your local distributor for recycling this product, please contact the dealer from whom you purchased the product, email **info@martinlogan.com**, or visit the distributor locator at **www.martinlogan.com**.

 The lightning bolt flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of potentially “dangerous voltage” within the product’s enclosure that may be sufficient to constitute a risk of electric shock.

 The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING!

- Refer servicing to a qualified technician.
- To prevent fire or shock hazard, do not expose this module to moisture.
- Turn subwoofer off should any abnormal conditions occur.

WARNING!
Changes or modification to this unit not expressly approved by the party responsible for compliance could void the user authority to operate the equipment.

Notes:
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.


In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) directive effective August 13, 2005, we would like to notify you that this product may contain regulated materials which upon disposal, according to the WEEE directive, require special reuse and recycling processing. For this reason Martin Logan has arranged with our distributors in European Union member nations to collect and recycle this product at no cost to you.
To find your local distributor please contact the dealer from whom you purchased this product, email **info@martinlogan.com** or visit the distributor locator at **www.martinlogan.com**.
Please note, only this product itself falls under the WEEE directive. When disposing of packaging and other related shipping materials we encourage you to recycle these items through the normal channels.

EU COMPLIANCE INFORMATION

Hereby, PML Sound International declares that the Abyss® Series Subwoofer is in compliance with the essential requirements and other relevant provisions of the following EU Compliance Directive Information.

- Conforms to European Union Low Voltage Directive 2014/35/EU;
- European Union EMC Directive 2014/30/EU;
- European Union Eco-Design Directive 2009/125/EC;
- European Union WEEE Directive 2012/19/EU;
- European Union Restriction of Hazardous Substances Recast (RoHS2) Directive 2011/65/EU;
- European Union Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) Directive 2006/121/EC;

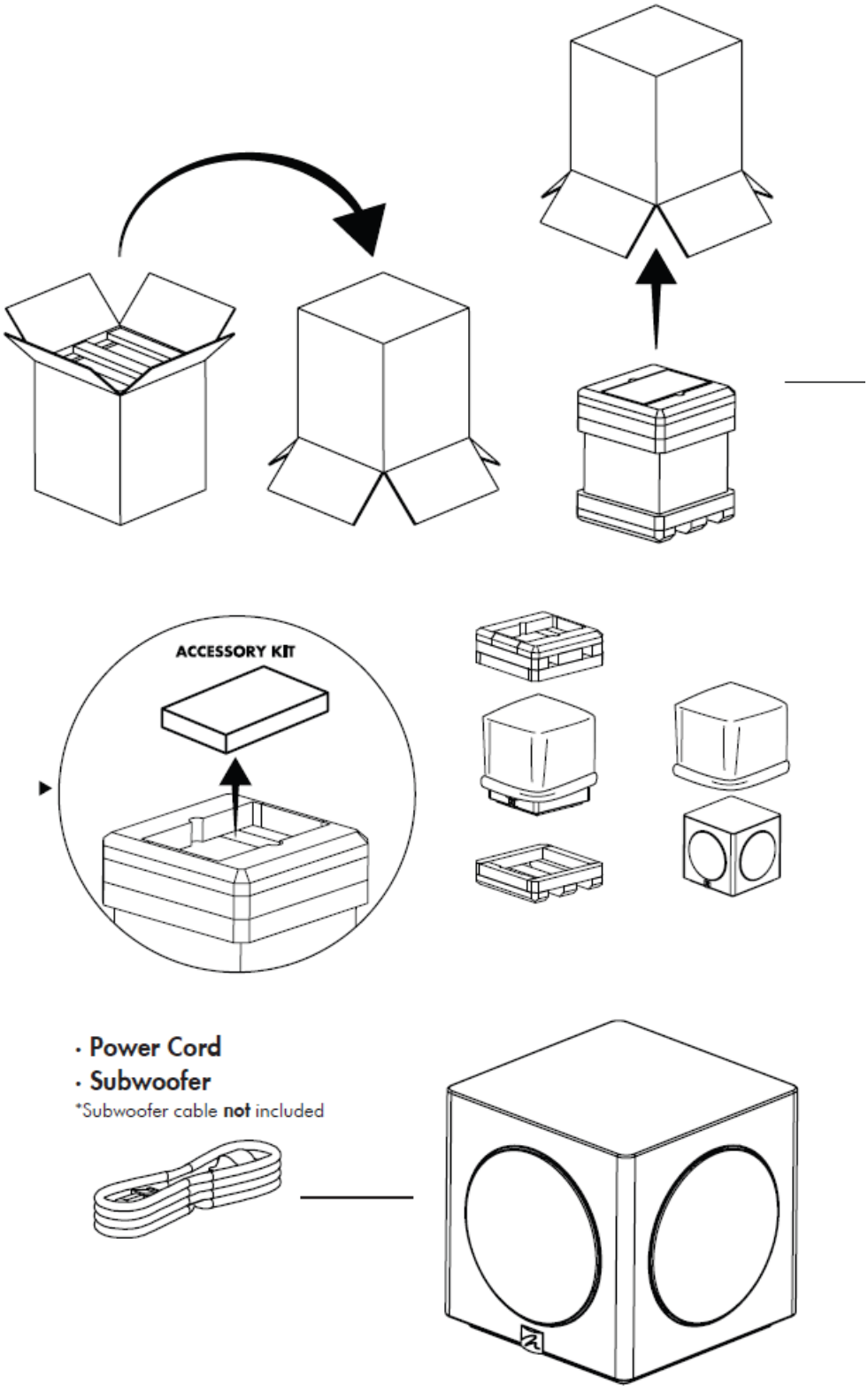
You may obtain a free copy of the Declaration of Conformity by contacting your dealer, distributor, or PML Sound International's worldwide headquarters. Contact information can be found here: **http://www.martinlogan.com**

PROTECTIVE EARTHING TERMINAL (if applicable)
The apparatus should be connected to a mains socket outlet with protective earthing connection.

- Max temperature: 40C
- Min temperature: -33C
- Max altitude: 2000m
- Max humidity: 95% non-condensing

Record your serial number here for easy reference. You will need this information when filling out your warranty registration. The serial number is located near the binding posts and on the product carton.

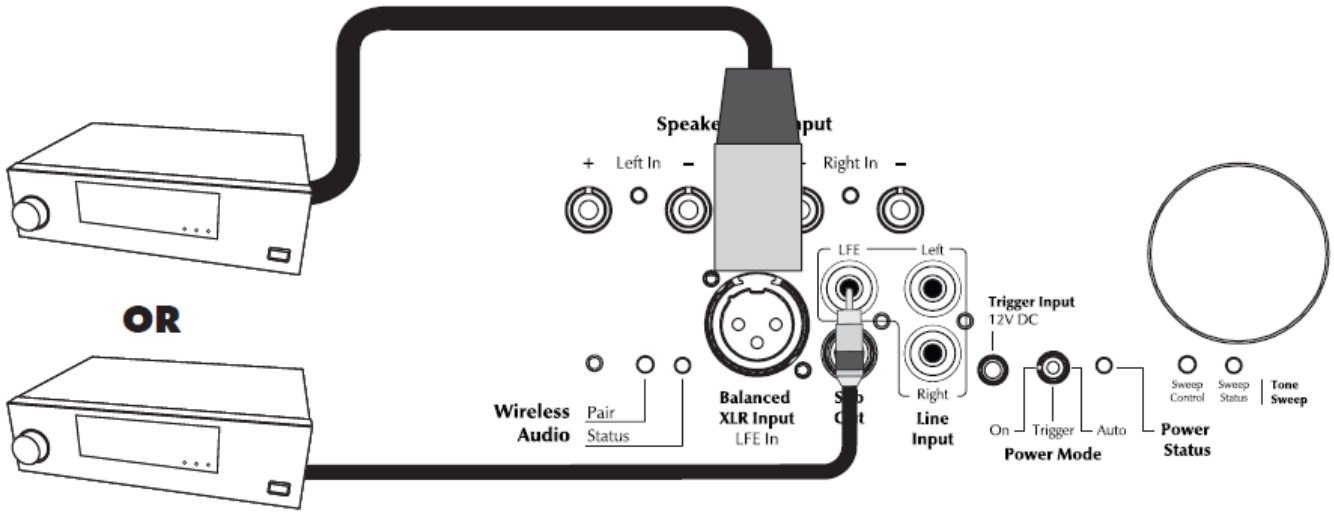
UNBOXING & CONTENTS



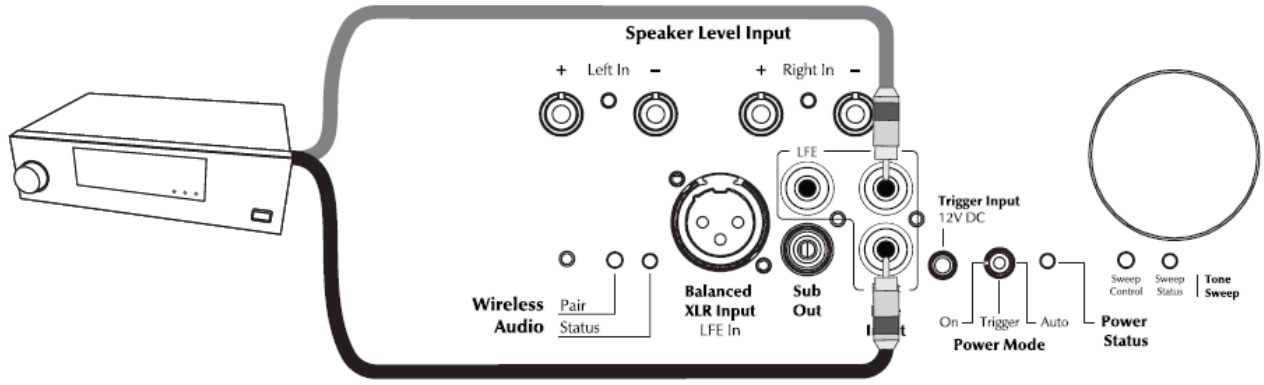
AUDIO SIGNAL CONNECTIONS

LFE Input (RCA or XLR)

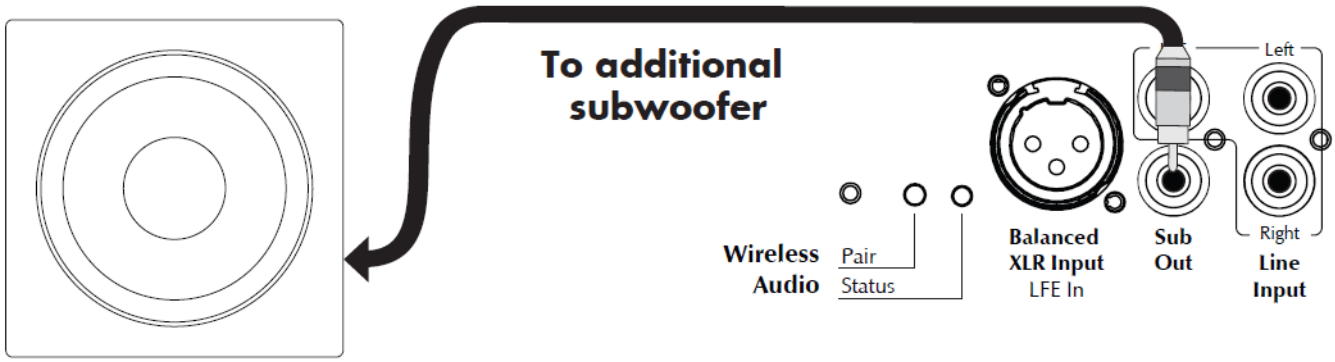
This is the most common connection for a subwoofer, and uses a single RCA or XLR style cable. If you have the option to use XLR, it is recommended to do so. The LFE connection is designed to be used with any device that has its own built in bass management settings. The subwoofer will not apply additional Low-Pass filtering to the signal received through the LFE Input. Through the LFE Input, the Low-Pass filtering is handled by the connected device. The most common devices that use the LFE input on the subwoofer are AV Receivers and Processors, but other devices like powered speakers or integrated amplifiers may also have their own bass management. If you aren't sure if you should use the LFE connection or not, please consult your products owners manual, your dealer, or MartinLogan.



Line Level Input (Left In / Right In)
Connect from the Main OUt/Pre Out/SUb Out on your receiver/pre-amp/electronic device. The setting for the Low-Pass Filter control is applied to the signal received through these inputs unless the Low-Pass filter control is set to Bypass. This subwoofer's Low-Pass filter is adjusted exclusively through the MartinLogan Subwoofer Control App. See "App Controls" section on page 1 C) for more details. The Left and Right inputs will be summed intemally, so the subwoofer will play content from the Left input, Right input or both simultaneously. Either of the inputs can be used if your device only has a single Output.

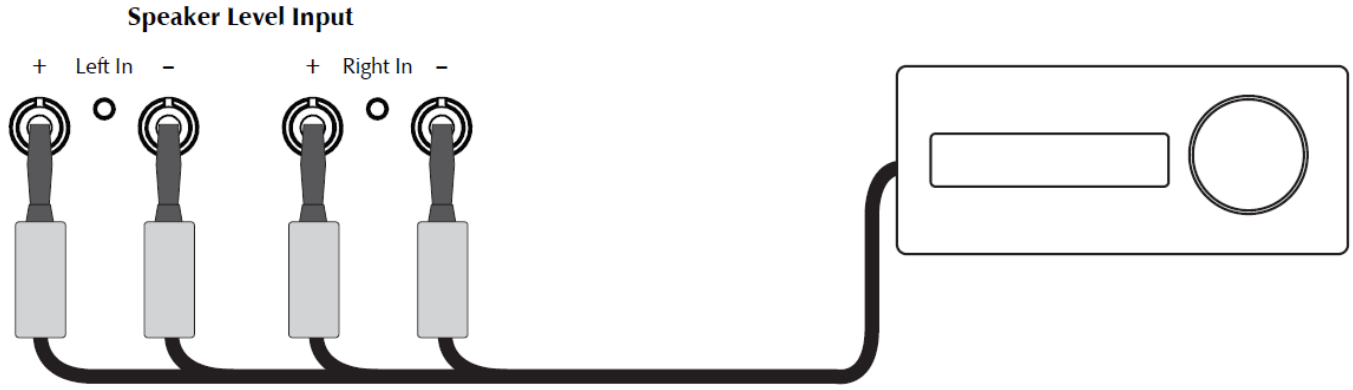


Subwoofer Out
Not all devices have multiple outputs for subwoofers. To make it easy to add additional subwoofers to a system, this subwoofer is equipped with a Subwoofer Out connection. The Subwoofer Out uses a single RCA connection that can be run to an additional subwoofer. This process can be repeated multiple times in order to create a"chain" of subwoofers if desired. The Subwoofer Out signal is a combination of all active incoming signals. In other words, whatever signals are actively connected to the various Subwoofer Inputs is what will come out of the Subwoofer Out connection.



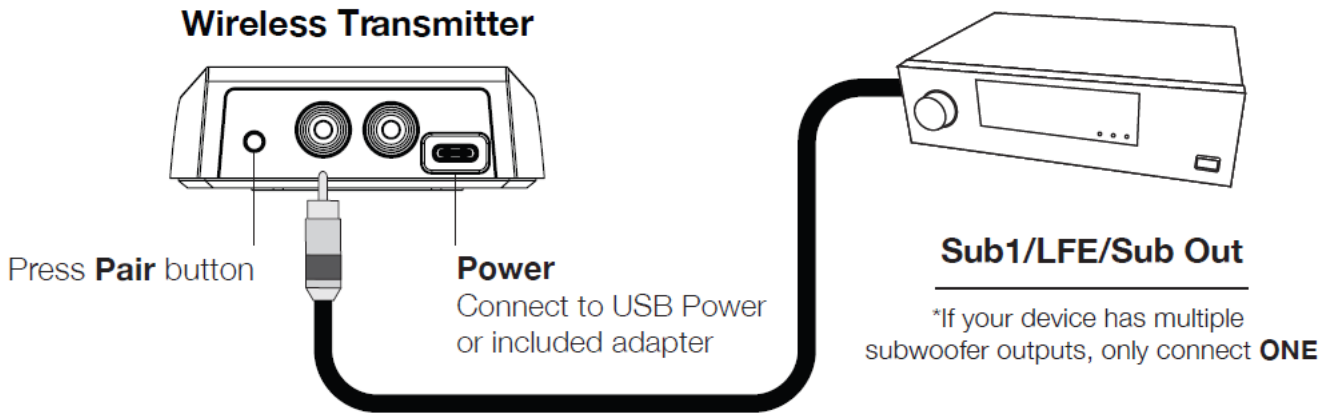
Speaker Level Input
Some electronics do not have dedicated subwoofer outputs and some enthusiasts like to connect their subwoofers

with a speaker level connection so that the subwoofer picks up the sonic signature of their chosen amplifier. To that end, this subwoofer is also equipped with speaker level inputs, ready to accept a direct connection to your amplifier using your preferred speaker cable. Banana plugs are required (not included) to use this input, as they provide for a clean installation free from stray wires. This connection method presents no load to your amplifier, and is safe for use even with balanced amplifiers.

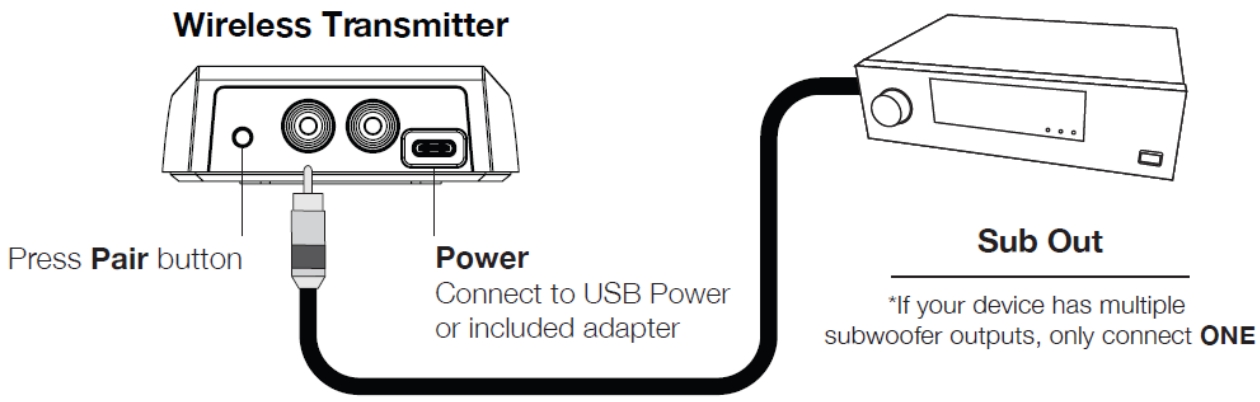


Wireless Connection
Your subwoofer includes a wireless transmitter that pairs with the wireless receiver built into the electronics of the subwoofer. This wireless transmitter is completely optional, but offers a convenient way to send a signal to your subwoofer when running a subwoofer cable is not a desirable option. The included transmitter can be poweredvia an available USB port or with the included power adapter. The transmitter should be paired to the subwoofer at the factory, but the built-in wireless receiver is powered off by default. See the controls section of the manual for instructions on how to enable the wireless feature.

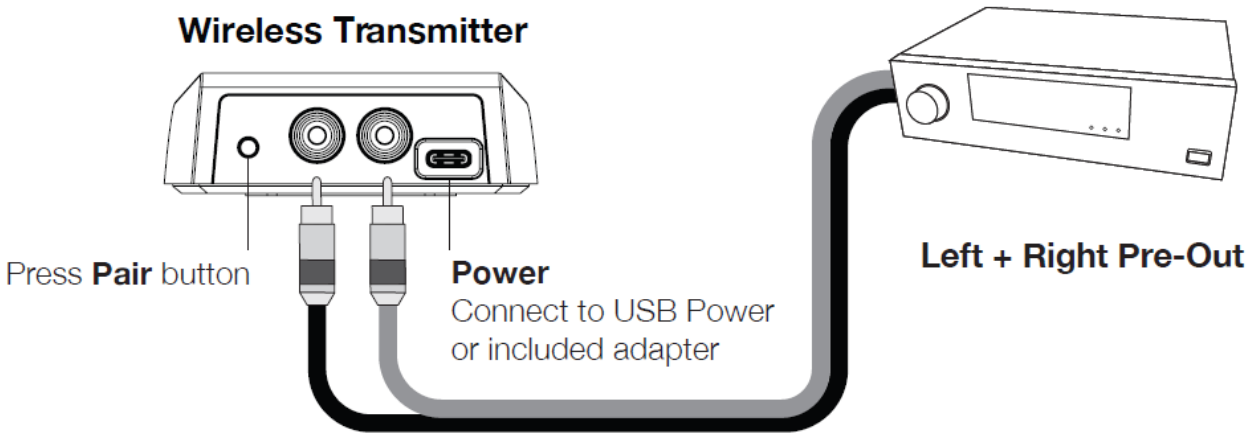
LFE (or for devices with built-in bass management)



Single Wire Connection (or for devices without built-in bass management)



Stereo Connection



Simultaneous Connections
MartinLogan subwoofers can utilize multiple input methods simultaneously. This can be helpful in certain installations, but the need to use simultaneous connections is rare, so this likely will not apply to your system. It is not recommended to use both wireless and wired connections simultaneously.

Controls

Backplate Controls:

The following controls can be accessed on the back of the subwoofer:

- Level: Interactive LED Backlit Knob, Min–Max
- Tone Sweep: Sweep Start and Pause (with status light)
- Power Mode: On, 12v Trigger, Auto
- Wireless Audio Pairing Button (for included MartinLogan wireless transmitter)

App Controls:
The following controls can be accessed via the MartinLogan subwoofer control app. Use the camera on your iOS or Android device to scan the QR code on the back of the subwoofer (also available on the packaging and QuickStart Guide) to download the app.

- Level: -40 to 12dB (Min-Max)
- Low-Pass Filter (Frequency): 35–120Hz (1° Increments)
- Low-Pass Filter (Order): Bypass, Third, Fourth
- Phase: 0–180° (1° Increments)
- Phase (Polarity): Normal, Inverted
- DSP Preset Listening Modes: Movie, Music, Night
- 20–30Hz Level: ±10dB
- Anthem Room Correction (ARC Genesis): On, Off
- Tone Sweep (120-20Hz): On, Off, Pause (Frequency)

Level/Volume (on backplate or via MartinLogan Subwoofer Control App)
Most AV Receivers or Processors have some form of auto-setup/calibration feature that will typically set the levels of the speakers and subwoofer(s). If using this feature, you can set the volume knob on the subwoofer to roughly the halfway point and let the system calibrate the level for you. If you desire more or less bass than what it

configures for you, simply adjust the subwoofer volume control (or the subwoofer level control in your electronics) to achieve your preferred sound.

Tone Sweep (on backplate or via MartinLogan Subwoofer Control App)
The tone sweep feature is a useful tool for identifying rattles in your room. Initiating the sweep and pausing it at frequencies that cause things in your room to rattle (like artwork, picture frames, furniture etc.) will help you identify these rattles and address them as you feel appropriate. To initiate the tone sweep you can use the MartinLogan Subwoofer Control App, or the buttons on the back of the subwoofer as described below:

1. Press the “Tone Sweep” button for 1 second to start the tone sweep. The “Sweep Status” LED will turn white. Use the subwoofer level control as needed.
2. Press the “Tone Sweep” button again to hold the sweep at a specific frequency. The “Sweep Status” LED will turn red while the sweep is holding.
3. Press the “Tone Sweep” button again to stop the sweep. The “Sweep Status” LED will turn off.
4. Repeat these steps as needed.

Note: The tone will turn off after 1 minute from the last button press.

Power Mode (on backplate only)
This subwoofer features a signal-sensing power supply that when set to “AUTO” will automatically turn the subwoofer on when a signal is detected on any input. It will also power off the subwoofer after sensing no signal for several minutes. The “ON” power mode leaves the subwoofer powered on and ready to play all the time with no delay, but will draw more power while not actively in use. “Trigger” mode is the correct setting when using a 12v trigger cable (3.5mm) from an external device to control the subwoofer power status.

Wireless Audio Pairing (on backplate only)
This subwoofer includes a wireless transmitter that pairs with the receiver built into the electronics of the subwoofer. This wireless transmitter is completely optional, but offers a convenient way to send a signal to your subwoofer when running a subwoofer cable is not a desirable option. The included transmitter can be powered via an available USB port or with the included power adapter. The transmitter should be paired to the subwoofer at the factory, but the built-in wireless receiver is powered off by default. Here is how to enable the wireless connection feature:

Enabling the Subwoofer’s Wireless Signal Connection Feature:

1. Pressing the Wireless Audio “Pair” button for 2 seconds will power on the built-in wireless module. The LED will now be green.

Disabling the Subwoofer’s Wireless Connection Feature:

1. Press and hold the Wireless Audio “Pair” button for 11 seconds – until the LED goes off completely. (The LED may show red or green or flash during the 11 seconds – continue to hold the button until the LED turns off)

Pairing the Transmitter:

1. The wireless transmitter must be powered on, and the wireless connection feature enabled on the subwoofer (see above instructions).
2. Press and hold the wireless audio “pair” button for 5 seconds until the LED quickly flashes green/red/green.
3. If the LED does not turn green, repeat the process and press the “pair” button on the wireless transmitter while

the LED on the subwoofer flashes green/red/green

Low-Pass Filter (via MartinLogan Subwoofer Control App only)
The Low Pass Filter lets you adjust the low-pass frequency for the left and right inputs. The Low-Pass filter value sets the point where the subwoofer will begin to “roll off” or gradually reduce its output. You do not want your subwoofer playing sounds that are too high in frequency, nor do you want to give your subwoofer too little content to play. This control does not act like a “brick wall” where it completely cuts off sounds above the chosen value, again, it marks the point where the subwoofer will gradually fade out.

If you are using this subwoofer as an LFE channel in a home theater system, or your electronic device already has a built-in Low-Pass Filter, set this control to Bypass. In this mode your electronics will handle the bass management instead of the subwoofer. If your device has a Low-Pass Filter and you do not set the subwoofer’s Low-Pass Filter to “Bypass” then you will essentially have 2 filters stacked on top of each other which can significantly reduce the bass output in certain ranges. If you are using this subwoofer in a 2-channel stereo system, or with a device that does not have a built in Low-Pass Filter, set this control to your desired value.

As a general rule, the Low-Pass Filter in these systems is typically set in increments of 20Hz (40/60/80/100) and typically will not exceed 80Hz. 80Hz is often a good starting point for a wide variety of systems. You will not harm anything by experimenting with different settings here. Choose the one you think sounds best. Making this adjustment via the app allows you to listen in real time from your favorite listening position, ensuring the most accurate results.

Phase (via MartinLogan Subwoofer Control App only)
The Phase control is entirely dependent on numerous factors including the size and configuration of your listening environment, the placement of the unit, and seating arrangement. Due to the way bass sound waves develop in different rooms; there is no rule of thumb for setting phase. For instance, if your room has a peak at the subwoofer crossover area, you may wish to set the phase so the actual acoustic outputs of the subwoofer and main speakers are out of phase. Experiment and try different settings and be patient, ultimately choose the setting that sounds best to you using a variety of content you like to listen to. If you are using the subwoofer to augment other MartinLogan products, we suggest starting with the phase set at 0°. In a system where phase and polarity are properly set, the main speakers and subwoofer should work together and sound as if there is more total bass in the system. If your main speakers and subwoofers are out of phase their sound waves will cancel each other and total bass output in the system will sound decreased.

DSP Preset Modes (via MartinLogan Subwoofer Control App only)
The DSP presets built into the main page of the MartinLogan Subwoofer Control App allow you to alternate between 3 preset modes: Music, Movie, and Night. Here is a description of the presets:

- Music = The most accurate mode, providing the highest levels of articulation and lowest levels of distortion. Ideal for the most detailed playback of music.
- Movie = This mode maximizes the dynamic output of the subwoofer for the most powerful presentation. Ideal for maximum impact from movies.
- Night = This mode reduces and limits the subwoofer’s dynamic output, which may be ideal for late night playback where avoiding noise complaints is desirable.

20–30Hz Level Control (via MartinLogan Subwoofer Control App)
The 20–30Hz Level Control in the app allows you to adjust the output level of the subwoofer, specifically targeting the lowest range of frequencies. This control gives you an adjustment range from -10dB to +10dB, with 0dB being the “flat” setting. Using the app, adjust this setting from your favorite listening position to your preference. This setting can also be adjusted after using the optional Anthem Room Correction system without permanently overriding the results of the calibration process. This value is temporarily set to the default 0dB value during the measurement process, and can be adjusted to taste afterwards if desired.

Anthem Room Correction (Optional: calibration mic sold separately)
This subwoofer is compatible with the award winning Anthem Room Correction system. This highly advanced software measures subwoofer performance in your room and then performs custom equalization, tuning, and calibration to achieve the highest levels of bass impact, and accuracy possible in your specific installation. Requires an ARC Calibration Microphone and PC or Mac computer (sold separately). The ARC setting in the MartinLogan Subwoofer Control APP allows you to disable or enable the ARC calibration after it has been uploaded to the subwoofer, allowing you to easily hear the “before” and “after” results.

Break-In **50 hrs**
Our custom made woofers require approximately 50 hours of break-in at moderate listening levels before their optimal performance occurs. This will factor in on any critical listening and judgment.

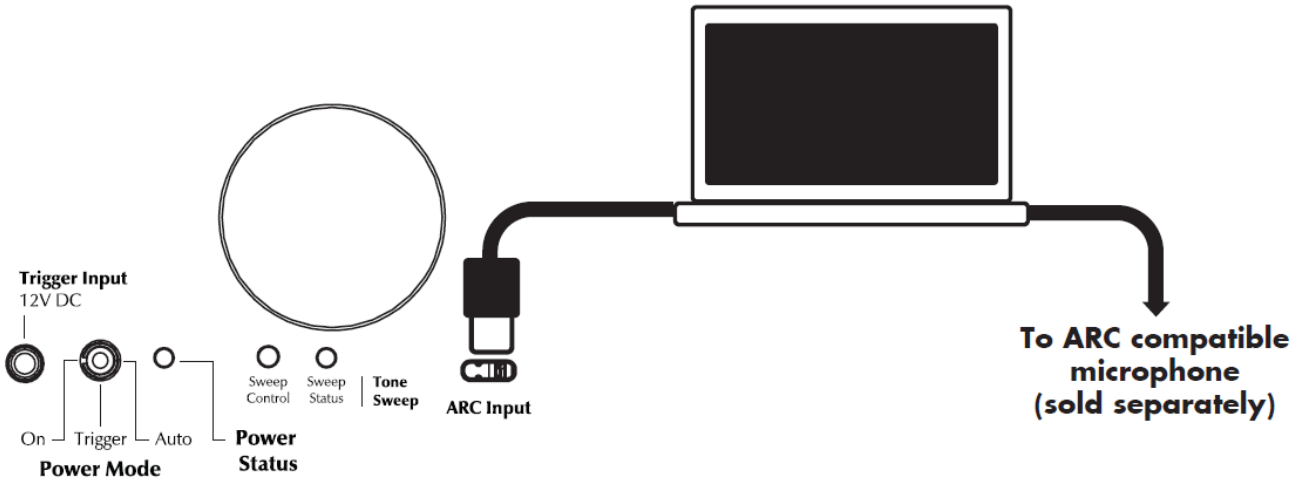
AC Power Connection **⚠WARNING⚠**
The power cord should not be installed, removed, or left detached from the subwoofer while the other end is connected to an AC power source. The IEC power cord should be firmly inserted into the AC power receptacle on the rear connection panel of the subwoofer, then to any convenient AC wall outlet. The sub also integrates a signal-sensing power supply that automatically switches off after sensing no music signal for several minutes (this will occur when the power switch is set to ‘Auto’). Your subwoofer is wired for the power service supplied in the country of original consumer sale. The AC power rating applicable to a particular unit is specified both on the packing carton and on the serial number plate attached to the subwoofer. If you remove your subwoofer from the country of original sale, be certain that AC power supplied in any subsequent location is suitable before connecting and operating the subwoofer. Substantially impaired performance or severe damage may occur to the subwoofer if operation is attempted from an incorrect AC power source.

ANTHEM ROOM CORRECTION (OPTIONAL UPGRADE)
Your subwoofer includes Anthem Room Correction technology for optimizing low-frequency output within your room. Your subwoofer’s ARC system employs a computer and a microphone connected via USB cables. ARC Genesis utilizes multiple measurement points, at least five—but up to ten—individual data positions, allowing ARC Genesis to analyze the unique characteristics of your room. ARC Genesis software calculates correction curves for each measurement point, substantially minimizing the rounding errors of less sophisticated “calculators”, like those used in standard on-board room equalization systems. Additionally, ARC Genesis computer software is capable of calibrating itself to individual microphones, eliminating potential interference that would otherwise skew the data.

Although ARC Genesis is designed to adjust the subwoofer’s output to minimize sonic anomalies caused by room interactions, it is always recommended to use traditional methods to achieve a flat response before implementing digitally based room correction. Remember, subwoofer placement is one of the most influential parameters when dealing with anomalous low-frequency room interactions. Listening position is equally important to bass response but is often dictated by other factors that are more difficult to change. ARC Genesis in your subwoofer is not a replacement for room correction systems designed to optimize multi-channel audio systems across the entire frequency range. When beginning the task of optimizing a multi-channel audio system’s performance, the first step should always be proper setup of the subwoofer and front, center, and surround speakers. The next step should be running ARC Genesis to adjust the individual subwoofer’s output to account for room interactions. Only after proper setup of speakers and subwoofers, including running ARC Genesis on the subwoofer(s), is it time to run your processor’s full room correction system to help balance overall system performance within the room.

Before You Begin
To run ARC Genesis on a computer you will need an ARC Genesis compatible microphone (available from your MartinLogan dealer). Visit **anthemarc.com** for details.

NOTE: If you own a MartinLogan PBK (Perfect Bass Kit) or Anthem ARC kit, the microphone included with either kit will work with the ARC Genesis software used to measure your subwoofer(s). Before running ARC Genesis on a computer, connect your subwoofer to the computer. Use a USB cable to connect the subwoofer’s USB Input (Type C) to a USB (Type A) input on your computer. Depending on the version of your ARC kit (sold separately) and the available USB ports on your computer, you may need a different USB cable or adapter.



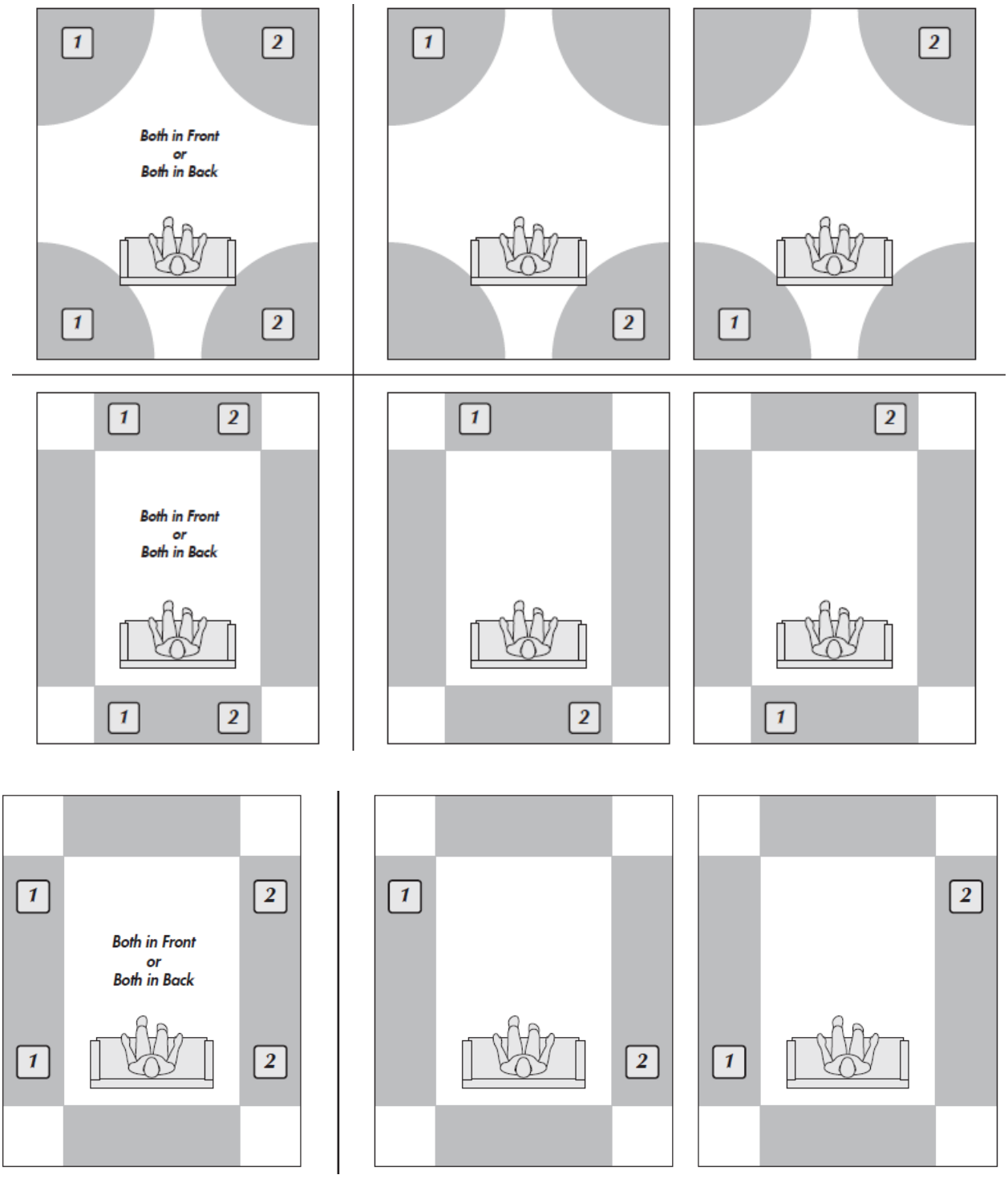
Running ARC Genesis

Before running ARC Genesis on a computer, connect the ARC microphone to your computer using the USB cable it was supplied with, or another USB cable with the appropriate connections to connect the mic to your computer. To run ARC Genesis on a computer you will need to download the latest ARC Genesis software from **anthemarc.com**. You will also need an ARC Genesis compatible microphone (available from your MartinLogan dealer). When running ARC Genesis software we recommend Automatic Mode for most users. This mode will walk you through the measurement process with step-by-step on screen instructions. The ARC Genesis software's Manual Mode is recommended for advanced users. For more information, please visit **anthemarc.com**.

- Before running ARC Genesis, set up your subwoofers by adjusting placement.
- During measurement, ARC Genesis overrides the settings of the Volume (level), Phase, Low-Pass Filter, and 20–30Hz Level controls. These controls do not impact the measurements. After the correction curve has been uploaded to the subwoofer these controls can be used to fine tune the subwoofer's performance.
- When taking ARC Genesis measurements the microphone should be approximately at the locations where your ears will be.
- When taking ARC Genesis measurements, the microphone should point up, towards the ceiling.
- When taking ARC Genesis measurements the room should be silent. Please turn off or remove potential sources of noise.
- ARC Genesis will require you to measure five (or more) listening positions. The first position should be located at the primary listening position. Subsequent measurements should be taken at other listening positions and should be no closer than 2-feet from each other.
- Although it might seem logical to do so, you do not need to take measurements throughout the room (i.e. in the front corners, far off to the side, etc.). Measurement locations should focus only on positions where people will be listening to the subwoofer.

PLACEMENT

As a starting point, we recommend placing the subwoofer in one of the shaded areas below. The corners will typically yield the highest output, while the front wall near the speakers typically provides the most seamless blend with the main speakers. When using multiple subwoofers try to place them in opposite corners or opposite walls in order to help spread the bass into the room more evenly. For even better results, try and place the subwoofers at opposite ends of the room as illustrated in the below diagrams.



SOLID FOOTING

After living and experimenting with your subwoofer, you may want to use the included carpet spikes. Once installed and leveled, the subwoofer will become more firmly planted on the floor and, consequently, bass will tighten. It is best not to implement the spikes, however, until you are secure in the positioning, as the spikes can damage the floor if the subwoofer is moved. MartinLogan does not recommend using carpet spikes on hard surface flooring

BENEFITS OF MULTIPLE SUBWOOFERS

The benefits of using multiple subwoofers are well known. Having two (or more) subwoofers in a system can reduce distortion by sharing the load across multiple woofers, allowing each subwoofer to do less work in order for the system to achieve the same volume. Multiple subs can also be used to smooth out the frequency response in your room as bass energy will now enter the room at multiple positions, instead of only one. This technique allows each subwoofer to help fill in gaps in bass output caused by room size, construction, and placement that may otherwise be unavoidable when using only a single subwoofer. The most obvious benefit for those interested in maximum impact, is the increase in maximum potential volume as your woofer count goes up. Last but not least, a more visually symmetrical look can be achieved when an equal number of subwoofers are placed in a room. This

is an upgrade path that can always be followed at a later date for those looking to further improve performance.

GENERAL INFORMATION

WARRANTY INFORMATION

MartinLogan, Ltd. warrants this subwoofer to be free of manufacturing defects in material and workmanship, subject for a period of 3 years. This warranty expires on the anniversary of the product's date of delivery. The warranty is only valid if purchase of this product was made through an authorized MartinLogan dealer or distributor. A copy of the original receipt of sale from an authorized MartinLogan dealer or distributor is required for any warranty work.

SERVICE

Should you use your MartinLogan product in a country other than the one in which it was originally purchased, we ask that you note the following:

1. The appointed MartinLogan distributor for any given country is responsible for warranty servicing only on units distributed by or through it in that country in accordance with its applicable warranty.
2. Should a MartinLogan product require servicing in a country other than the one in which it was originally purchased, the end user may seek to have repairs performed by the nearest MartinLogan distributor, subject to that distributor's local servicing policies, but all cost of repairs (parts, labor, transportation) must be borne by the owner of the MartinLogan product.
3. If, after owning your speaker for six months, you relocate to a country other than the one in which you purchased your speaker, your warranty may be transferable. Contact MartinLogan for details.

SERIAL NUMBER

The serial number is located on back of the subwoofer, directly below the model name. The serial number may also be found on the product carton.

Ask Your Dealer

Your MartinLogan dealer can suggest many options for optimal subwoofer placement. They also have many tools at their disposal, such as experience, familiarity with the associated equipment, and even sound analysis equipment which may make the task of determining optimal subwoofer placement easier.

Enjoy Yourself

MartinLogan subwoofers are very refined and will benefit from care in setup. With the above placement tips in mind you will find, over months of listening, that small changes can result in measurable differences. As you live with your subwoofer, do not be afraid to experiment with positioning until you find the optimal relationship between your room, settings and subwoofer that gives you the best results. Your efforts will be rewarded!

TROUBLESHOOTING
No Output

• Check that all system components are turned on and source material is playing.
• Check speaker wires and connections.
• Check all interconnecting cables.
• If you are unable to resolve your problem, please contact your dealer or MartinLogan customer service

(see below)

CONTACTING CUSTOMER SERVICE

Phone
785-749-0133

Monday – Friday
8 AM – 5 PM CT

Email
service@martinlogan.com

Social Media

SPECIFICATIONS*

*Specifications are subject to change without notice.

Abyss® 8 Subwoofer

- Frequency Response…… 23Hz-200Hz ±3dB (Anechoic via LFE input)
- Low Frequency…… Driver Triple 8” (20.3cm) Hybrid Woofer System – Single high-excursion, anodized-aluminum cone in a stamped steel basket with dual anodized-aluminum cone passive radiators
- Cabinet ……. Sealed 1” thick MDF cabinet with reinforced MDF woofer baffle
- Amplifier Power …….. MartinLogan Magnitude MT-1kW Amplifier
  1,000W peak (500W continuous)
- DSP . ……Ultra High-Resolution 500MHz Vojtko DSP Engine with 64bit processing
- Controls (on backplate)…… Level: Interactive LED Backlit Knob, Min-Max
  Tone Sweep: Sweep Start and Pause (with status light)
  Power Mode: On, 12v Trigger, Auto
  Wireless Audio Pairing Button (for inclduded MartinLogan wireless transmitter)
- Controls
  (via bluetooth using MartinLogan control app)……Level: -40 to 12dB (Min-Max)
  Low-Pass Filter (Frequency): 35-120Hz (1° increments) Low-Pass Filter (Order): Bypass, Third, Fourth
  Phase: 0-180° (1° Increments)
  Phase (Polarity): Normal, Inverted
  Preset Listening Modes: Movie, Music, Night
  20-30Hz Level: ±10dB
  Anthem Room Correction (ARC Genesis): On, Off Tone Sweep (120-20Hz): On, Off, Pause (Frequency)
- Inputs…… Line Level: Left, Right, and LFE
  XLR: LFE
  Speaker Level: Left and Right (requires banana plugs)
- Wireless Input…… Integrated Wireless Receiver Wireless Transmitter Included
- Outputs…… RCA Sub Out (combines and repeats all incoming signals to an additional subwoofer)

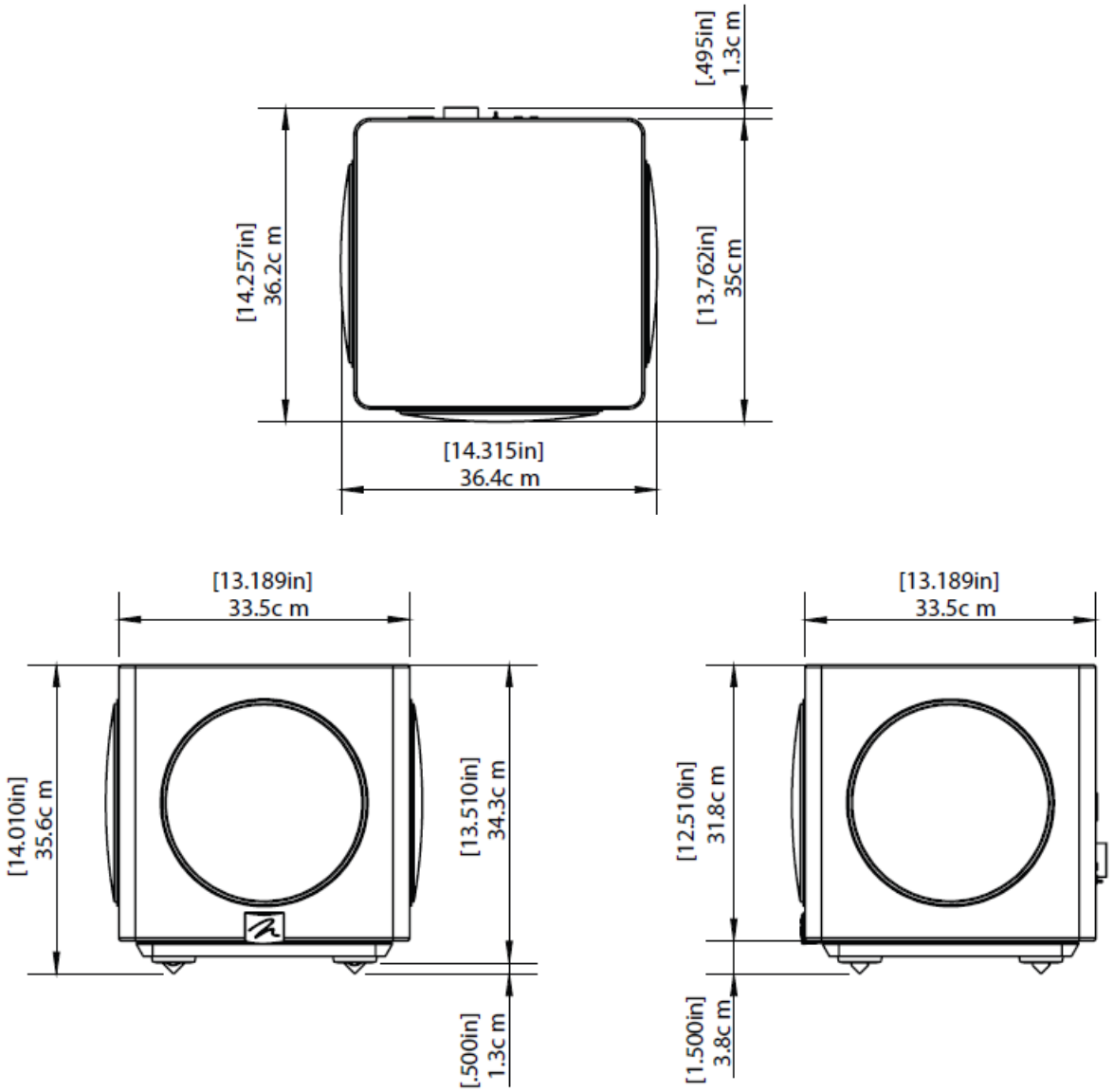
- Power Draw…… Max: 1000W Standby (Wireless Disabled): 0.5W Standby (Wireless Enabled): <2W (Transmitter & Subwoofer combined)
- Feet . . . . . Integrated Anti-Vibration Feet (carpet spikes included)

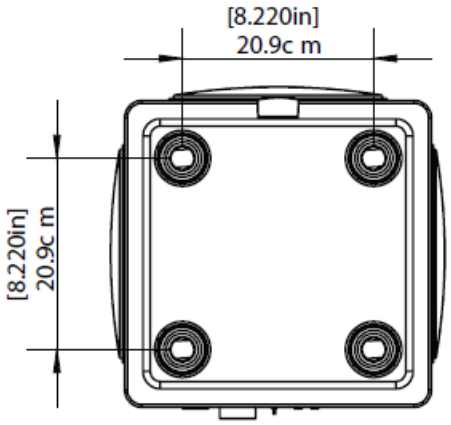
  Weight…….. 46.7lb (19.4kg)

  Dimensions (HxWxD) …… 13-1/2” x 13-1/4” x 13-1/4” (34.3cm x 33.5cm x 33.5cm)

  (not including optional carpet spike, woofer grille or volume knob)
- Finishes ……Gloss Black or Satin White

PRODUCT DIMENSIONS





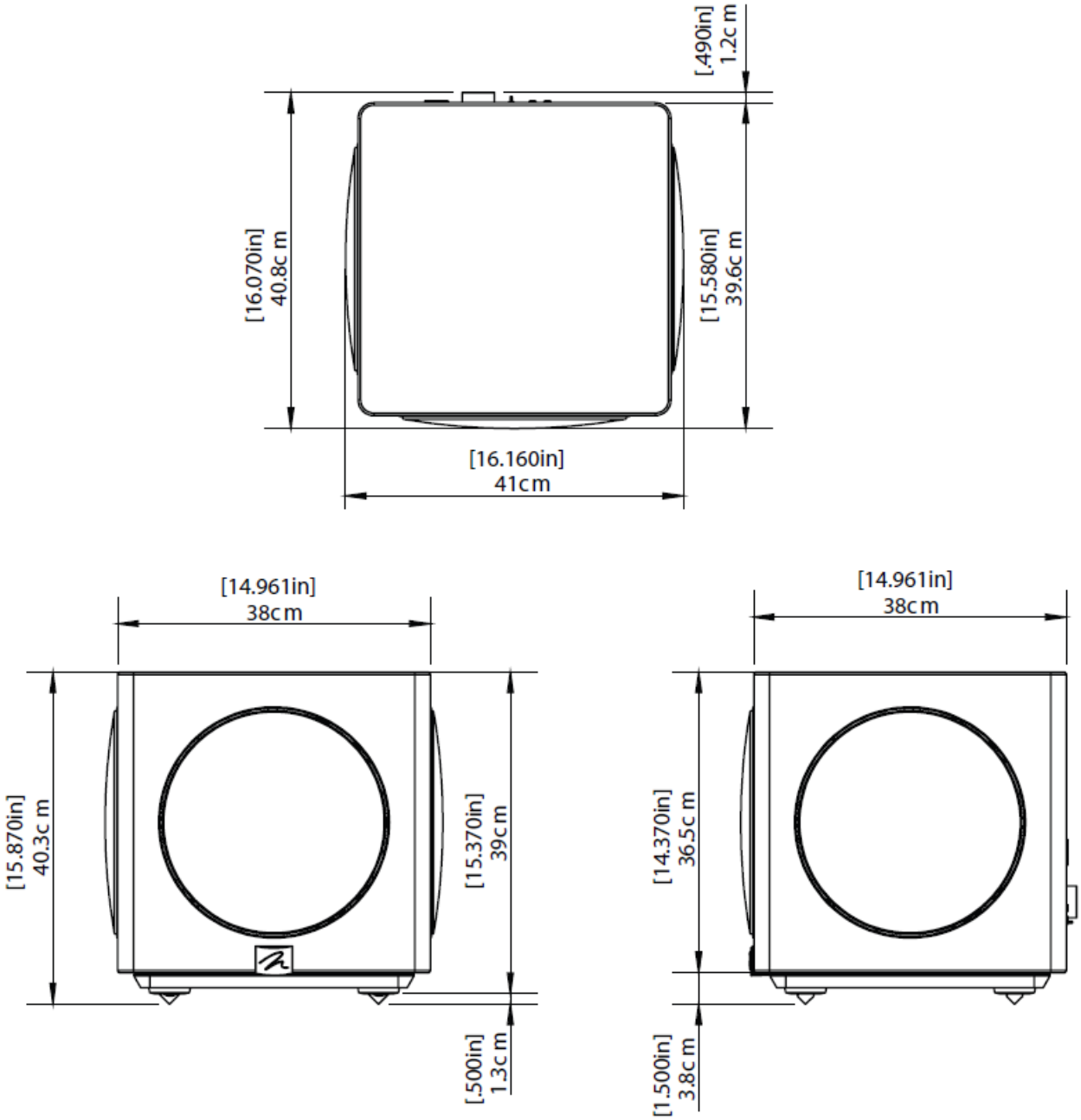
Specifications*

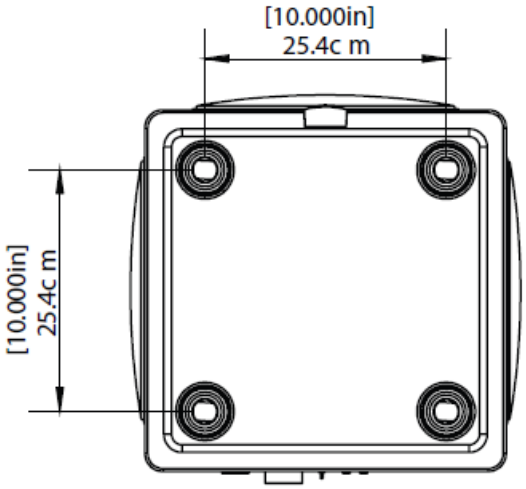
Abyss® 10 Subwoofer

- Frequency Response …….. 22Hz-200Hz ±3dB (Anechoic via LFE input)
- Low Frequency Driver …….. Triple 10” (25.4cm) Hybrid Woofer System – Single high-excursion, anodized-aluminum cone in a stamped steel basket with dual anodized-aluminum cone passive radiators
- Cabinet . …….. Sealed 1” thick MDF cabinet with reinforced MDF woofer baffle
- Amplifier Power …… MartinLogan Magnitude MT-1.6kW Amplifier 1,600W peak (800W continuous)
- DSP …… Ultra High-Resolution 500MHz Vojtko DSP Engine with 64bit processing
- Controls (on backplate)…….. Level: Interactive LED Backlit Knob, Min-Max
  Tone Sweep: Sweep Start and Pause (with status light)
  Power Mode: On, 12v Trigger, Auto
  Wireless Audio Pairing Button (for included MartinLogan wireless transmitter)
- Controls (via bluetooth using MartinLogan control app)…….. Level: -40 to 12dB (Min-Max)
  Low-Pass Filter (Frequency): 35-120Hz (1° increments)
  Low-Pass Filter (Order): Bypass, Third, Fourth
  Phase: 0-180° (1° Increments)
  Phase (Polarity): Normal, Inverted
  Preset Listening Modes: Movie, Music, Night
  20-30Hz Level: ±10dB
  Anthem Room Correction (ARC Genesis): On, Off
  Tone Sweep (120-20Hz): On, Off, Pause (Frequency)
- Inputs…….. Line Level: Left, Right, and LFE
  XLR: LFE
  Speaker Level: Left and Right (requires banana plugs)
- Wireless Input …… Integrated Wireless Receiver Wireless Transmitter Included
- Outputs ……RCA Sub Out (combines and repeats all incoming signals to an additional subwoofer)
- Power Draw…….. Max: 1000W Standby (Wireless Disabled): 0.5W
  Standby (Wireless Enabled): <2W (Transmitter & Subwoofer combined)
- Feet . . . . . Integrated Anti-Vibration Feet (carpet spikes included)
- Weight…….. 55.6lb (10.8kg)

- Dimensions (HxWxD)…….. 15-1/2” x 15” x 15” (39cm x 38cm x 38cm)
  (not including optional carpet spike, woofer grille or volume knob)
- Finishes…….. Gloss Black

PRODUCT DIMENSIONS





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Documents / Resources

	MARTIN LOGAN ABYSS 8 High Resolution Subwoofer System [pdf] User Manual ABYSS 8 High Resolution Subwoofer System, ABYSS 8, High Resolution Subwoofer System, Subwoofer System, System

References

- Anthem Room Correction (ARC)
- MartinLogan | Premium HiFi Speakers for Home Theater & Stereo
- User Manual