L42ms

Integrated Music System

Owners Manual

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Features, Specifications, and Appearance subject to change without notice.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Clean only with a dry cloth.
6. Do not block any ventilation openings. Install this apparatus in accordance with the manufacturer's instructions.
7. Do not install this apparatus near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
8. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
9. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
10. Use only attachments/accessories specified by the manufacturer.
11. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

12. Unplug this apparatus during lightning storms or when unused for long periods of time.
13. 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, or the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
14. To disconnect this apparatus from the AC mains completely, disconnect the power-supply cord plug from the AC receptacle.
15. The mains plug of the power-supply cord shall remain readily operable.
16. This apparatus is intended to be used only with the power supply and/or charging cable provided by the manufacturer.

The following instructions may not apply to waterproof devices. Refer to your device user manual or quick start guide for more waterproof instruction if any.

- Do not use this apparatus near water.
- Do not expose this apparatus to dripping or splashing, and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

CAUTION	
RISK OF ELECTRIC SHOCK. DO NOT OPEN.	
	THIS SYMBOL ON THE PRODUCT MEANS THERE IS UNINSULATED, DANGEROUS VOLTAGE WITHIN THE PRODUCT ENCLOSURE THAT MAY PRESENT A RISK OF ELECTRICAL SHOCK.
	THIS SYMBOL ON THE PRODUCT MEANS THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THIS GUIDE.

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Product Overview

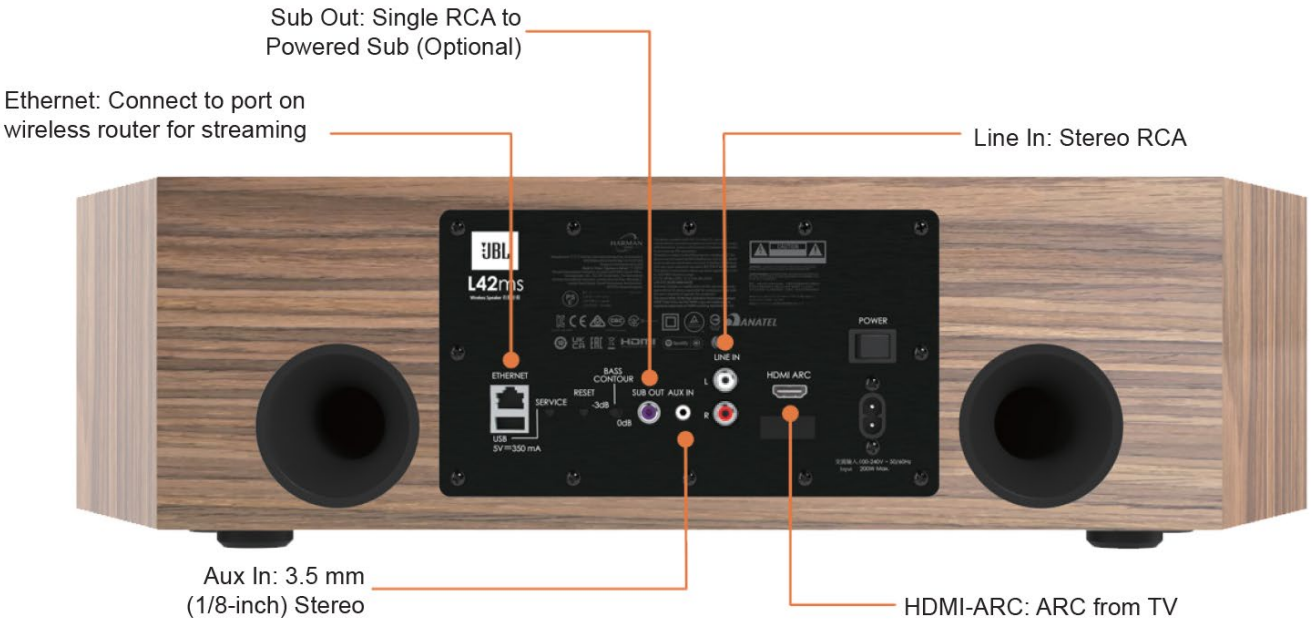
Thank you for choosing JBL

For more than 75 years, JBL has been providing audio equipment for concert halls, recording studios, and movie theaters around the world and has become the trusted choice of leading recording artists and sound engineers. The L42ms Integrated Music System was designed to fit today's entertainment lifestyle by showcasing the iconic sound of a pair of JBL loudspeakers in a single cabinet system. The L42ms supports a variety of sources from wireless streaming via Bluetooth and Wi-Fi, to hard wired sources, such as, a compact disc player or TV. While some connections are specific, others can be used for any device that matches the same connection type.

While this owner's manual attempts to describe the product and include step-by-step instructions for setting up and getting you started, should you need further assistance please contact our Customer Support at the numbers below:

Inside the US and Canada: +1 888.691.4171 **Outside the US and Canada: +44 1707 668 012**

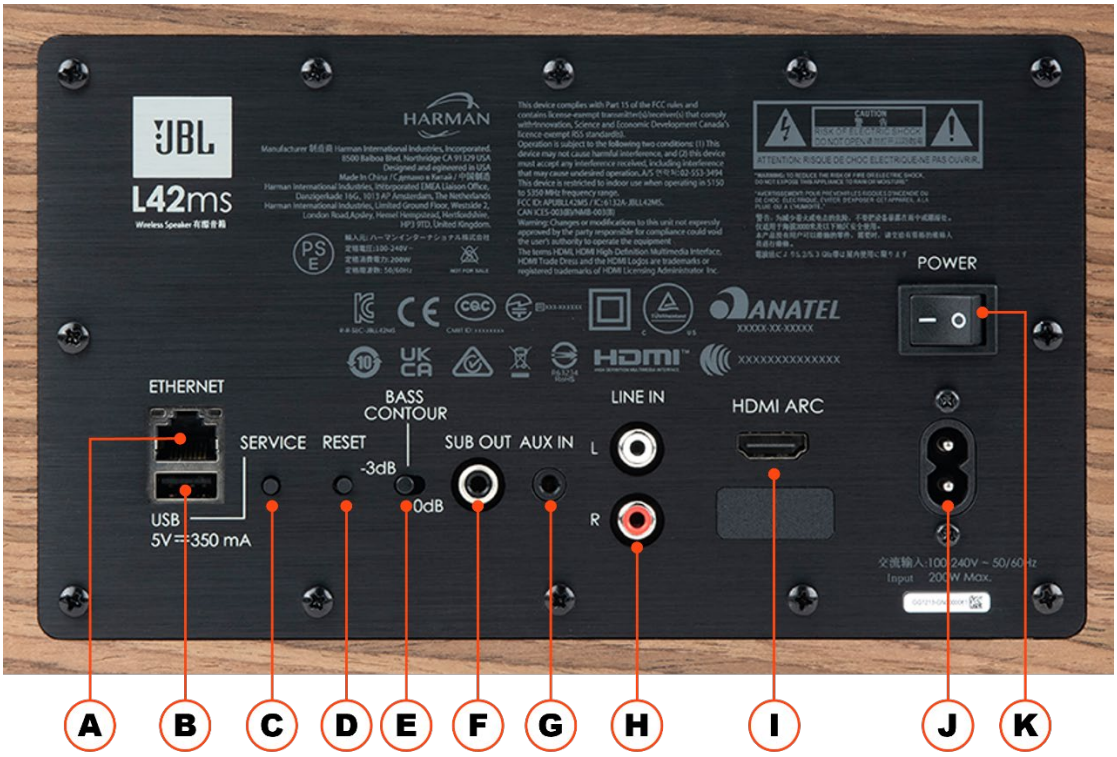
Basic Wiring Diagram



What's in the Box

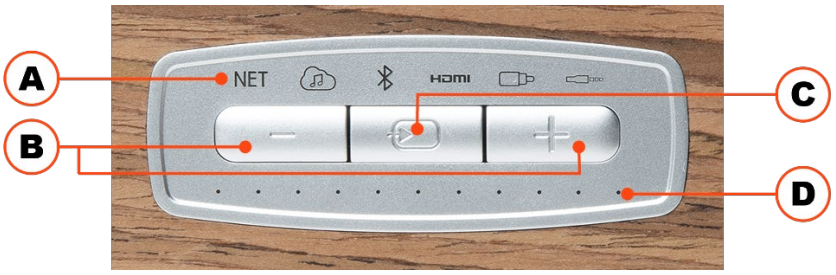
1x L42ms Integrated Music System
1x Speaker Grille
1x RF Remote
1x Region Specific Power Cord

Rear Panel Connections



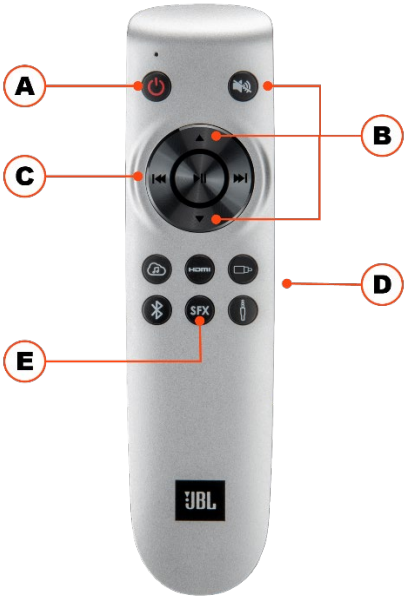
A	Ethernet	RJ-45 10/100bit ethernet internet connection
B	USB-A	For use with USB-A Memory Stick with audio content or UPNP connection for audio content playback. Requires use of JBL Premium App for control. (Also used as a Service / Diagnostic connection)
C	Service	Service Button – No operation for regular / general use.
D	Reset	Resets L42ms to Factory Defaults. Refer to Restoring Factory Defaults pg.13 for details.
E	Bass Contour	Use to adjust for bas compensation based on nearness to boundaries. Refer to Speaker Placement pg. 7 for details.
F	Sub Out	Single RCA - Connect to Powered Sub with RCA input. Autosensing w/Auto-engage of 80Hz High Pass Filter
G	Aux In	3.5mm (1/8”) TRS Stereo Analog
H	Line In	RCA Stereo Analog Line In pair connection. **Note**: This input is NOT configured for the gain required for a turntable.
I	HDMI ARC	Standard HDMI with ARC for use TV ARC Input. Only accepts 2ch PCM signals
J	AC Power	Connect with supplied power cord.
K	Main Power Switch	Ensure switch is on Off position while connecting or disconnecting sources.

Top Panel Controls



A	Source Indicators	Indicates connection status. NET – White=Connected | Blinking=Searching | Red=Network Disabled Sources – White=Active | Off=Not Active
B	Volume Controls	Controls output volume of speaker
C	Source Selection	Press to move to the next source.
D	Volume Indicator	Dots illuminate from left to right as volume increases.

Bluetooth Remote Control Buttons



A	Power	Toggles L42ms ON or OFF
B	Volume Controls	Volume Up / Down and Mute
C	Playback Controls	Previous / Next and Play / Pause
D	Direct Source Selection	Network Streaming / HDMI-ARC / RCA / Bluetooth / 3.5mm TRS Stereo Analog
E	SFX (Sound Field Enhancement)	Press to expand output to a more spacious sound field. Refer to Sound Field Enhancement (SFX) pg.12 for more details.

Note: Pressing any button on the remote will wake the L42ms from Standby.

Initial Setup

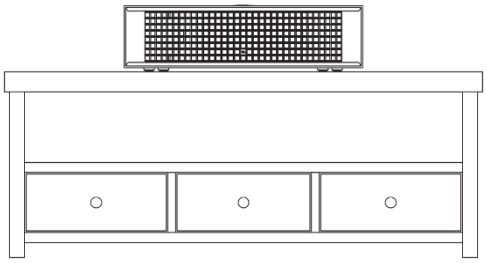
Speaker Placement

Setting Boundary Compensation

The L42ms was designed to be placed on top of a cabinet or table in a open area away from boundaries such as walls or cabinet surfaces. The bass contour switch is used to compensate for placing the speaker on cabinet shelf where side and top areas are close to the speaker.

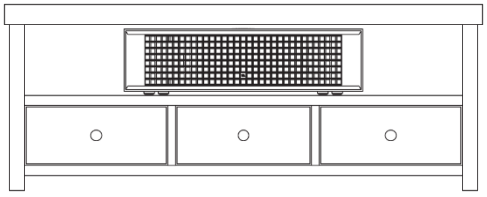
Set the Bass Contour switch located on the rear panel based on the speakers proximity to side boundaries such as walls or the inside of a bookcase or cabinet. When close to a boundary the switch should be in the -3dB position in order to maintain level bass response.

Speaker on top of cabinet and away from walls.



Set Bass Contour to 0dB

Speaker on cabinet shelve or close to walls.

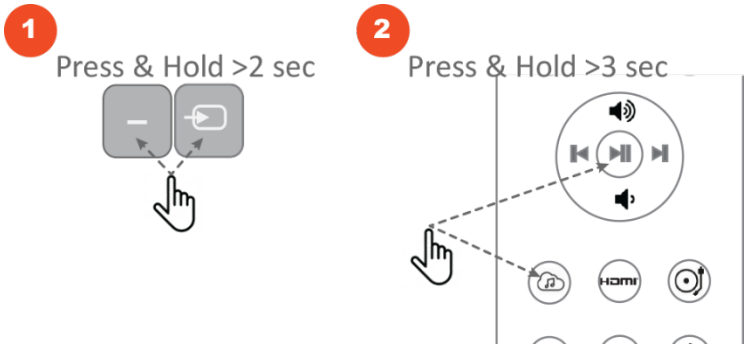


Set bass contour to -3dB

Pairing the Remote

Before the L42ms can be controlled via the included Bluetooth remote, the included remote must be paired to the L42ms.

1. Press & Hold the volume minus and source selection buttons on the top panel simultaneously for >2secs to initiate pairing mode.
2. Press & Hold the Network Stream and Play/Pause buttons on the remote simultaneously for >3secs.



Connecting Sources

AUX – Connect using a 3.5mm (1/8”) TRS Stereo female for analog 2ch. Pinout follow standard configuration. Refer to Rear Panel Connections on pg. 5, item G.

LINE IN – Connect the RCA stereo analog output connections of a source device, i.e., a CD player. Refer to Rear Panel Connections on pg. 5, item H.

HDMI-ARC – Connect to the ARC input of a TV. Select the ARC input on the TV after making this connection and powering On the L42ms. Refer to Rear Panel Connections on pg. 5, item H.

Note: The HDMI-ARC input on the L42ms does not decode multichannel or Dolby 2ch audio formats. In order for the L42ms to play content delivered to the HDMI/ARC the source device output must be set to 2ch PCM. Refer to the owners manual for your source device on details on how to select 2ch PCM output.

Connecting to Network

Wired Network Connection

Connect the Ethernet port on the rear to the port on a wireless router using a CAT-5e or higher cable. NET on the top panel will illuminate white once a network connection has been established. The L42ms is now available on the network for casting from media players such as Spotify or iTunes.

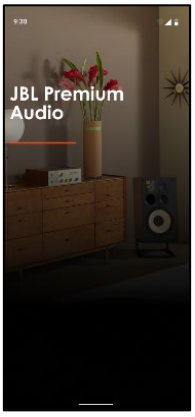
Note: If the NET icon is **RED** then network is disabled and must be enabled in order to connect. Refer to Enabling and Disabling Network and Bluetooth on pg. 9, for details.

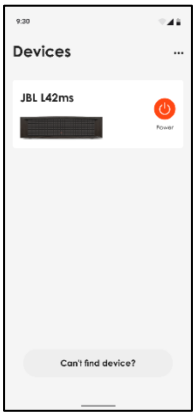
Wi-Fi Direct Connection

Wi-Fi Connection via the JBL Premium Audio App

The JBL Premium Audio App is used to connect the L42ms to a Network for Android and can be used for Apple iOS devices. Alternatively, you can connect the JBL L42ms to your WiFi network using Apple Airplay Speaker Setup in the Wi-Fi settings of your Apple device.

1. On your mobile device, download the **JBL Premium Audio App**.
2. Power on the JBL L42ms Integrated Music System.
3. Open the app to discover it after the L42ms is **Ready**.
4. Select it and follow the prompts to connect it to your Wi-Fi network.
5. NET icon LED will illuminate WHITE once network is enabled and connected.





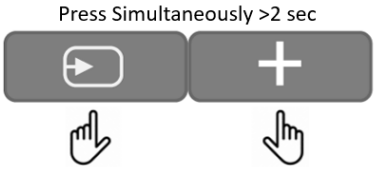
Wi-Fi Connection via Airplay

1. Navigate to the network settings for your iOS device.
2. Select Wi-Fi and navigate to **Setup New Airplay Speaker**.
3. Select the device named **L42MS-XXXXX**. The **XXXXXX** is the corresponding MAC address.
4. Select the network for the L42ms to use and select **Next**.
5. Follow the on-screen instructions to complete the setup of the L42ms as an Airplay speaker.

Enabling and Disabling Network and Bluetooth

Network and Bluetooth functionality may be turned Off should it be desired to do so. The same button operation can be used to turn Network and Bluetooth back On.

Press Source Selection & Volume + on the top panel simultaneously for >2 seconds.



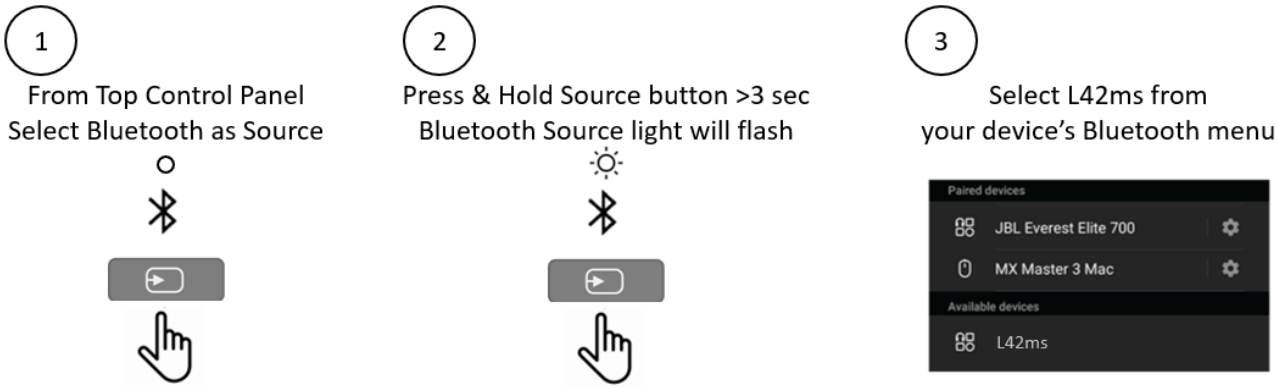
Note: When the Network and Bluetooth is Off the following conditions exist.

- Speaker cannot be used for Network or Bluetooth streaming.
- Handheld remote is in-operable and the unit can only be used via the top panel buttons.
- Network icon on top panel with show Red indicating that Network has been turned off.

Connecting a Bluetooth Device

Connection via Bluetooth is the same as other Bluetooth devices and varies from mobile device to mobile device. Refer to the owner's manual for the device being connected prior to performing the following steps.

1. Select the Bluetooth source via the button on the remote or via the top panel source selection.
2. Press & Hold the Bluetooth source or the source selection button for >3 seconds.
3. Navigate to your devices Bluetooth menu and select JBLL42MS from the list.
    a. Note: If the name was changed during Google Home setup, that name will be listed.



Using the L42ms

Wake from Standby

The L42ms enters standby mode when the power button is pressed or after approximately 10mins of no signal on a selected source. To wake the L42ms from standby perform one of the following operations.

- Press any button on the remote or top panel.
- Connect to the L42ms via a Bluetooth or Wi-Fi Streaming Source.
- Power On device connected to L42ms via HDMI ARC

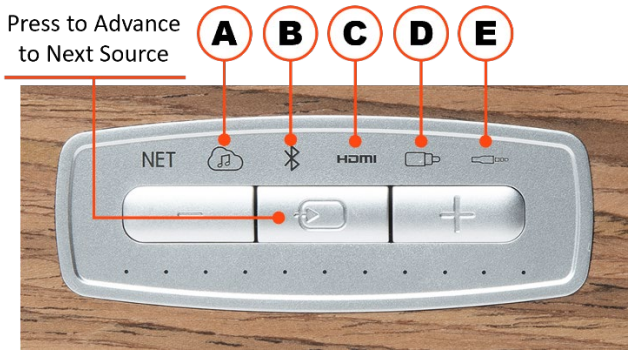
Selecting and Playing Sources

Sources may be selected directly by pressing the desired source button on the remote, using the source selection button on the top panel, or automatically for Network or Bluetooth streaming and HDMI ARC. Sources that can be automatically played will also wake the L42ms from Standby.

Using the Top Panel

Sources may be selected using the Source selection button located in the center of the top panel controls. Pressing it advances to the next source to the right. The source will illuminate **White** when it is active.

Sources can also be selected directly using the buttons on the included Bluetooth remote.
Refer to Remote Control pg. 6, for details.



A	Streaming Sources	Auto Switch - Selected when a device initiates a stream.
B	Bluetooth	Auto Switch - Selected when a device connects via Bluetooth. Refer to Connecting a Bluetooth Device on pg. 9, for details to connect a device.
C	HDMI-ARC	Auto Switch - Selected when a device connected to the HDMI input is powered on.
D	Line In	RCA Line In connections for an analog stereo signal.
E	AUX	Analog stereo via 3.5mm (1/8”) TRS stereo analog.

Automatically Selected Sources

Streaming, Bluetooth sources, and the HDMI-ARC inputs will automatically be selected when a source is chosen that is connected to the L42ms via cable in the case of HDMI-ARC or Wi-Fi and Bluetooth.

Network Streaming

The JBL L42ms can be connected to and stream audio content through the following apps and services:

- Spotify Connect (Your phone or tablet may be used as a remote control. Visit www.spotify.com/connect to for details.)
- Tidal Connect
- Apple Airplay 2
- Google Cast™ (requires acceptance of Google terms in the JBL Premium Audio App or additional setup steps in the Google Home App)
- Roon Ready (requires setup on a Mac, PC, Roon Nucleus, or another server and the Roon Remote App)
- Works With SmartThings (requires setup with a SmartThings Hub and the SmartThings App)

From the JBL Premium Audio App you can also access, setup favorites, and access other services including but not limited to:

- Internet Radio
- Podcasts
- Connected USB media
- Local network storage (UPnP)

Works with Google Cast

The L42ms supports Google Cast which allows the speaker to receive content through a network connection. Casting is done by selecting the cast symbol within the app being used or the connect function of the app. Refer to the apps usage information for details on using a specific apps functionality.

1. Open a source such as YouTube on a mobile device.
2. Select the desired content.
3. Press the Cast icon in the upper right-hand corner of the chosen app and select the L42ms.

Works with Apple Airplay

To listen to audio via AirPlay on the speaker, ensure your Apple device is connected to the same network as the Receiver and simply select the Speaker as the AirPlay audio playback device.

Bluetooth

1. Open the Bluetooth menu on your mobile device.
2. Select the L42ms from the list.
3. Open an app such as YouTube.
4. Select content and press play.

HDMI-ARC

The HDMI-ARC input will be automatically selected when the connected device is powered On regardless of the standby state of the L42ms. It can also be selected by using the source select button on the top panel of the HDMI button on the remote.

1. Power On device connected to HDMI-ARC
2. L42ms will automatically select the HDMI-ARC input.

Local USB Playback

Insert a USB-A storage device into the USB-A socket on the rear panel. Do not use a USB extension cable.

The L42ms can play music files stored on a USB-A flash drive. Music files contained within a USB-A storage device can be browsed using the JBL Premium Audio App.

Notes:

1. USB-A Flash Drive should be formatted to Fat32
2. Supported File Formats: AAC, AIFF, ALAC, DSD128 (to PCM), FLAC, MP3, MP4, MQA, OGG, WAV, WMA

Controlling L42ms Volume

Volume for the L42ms can be controlled via the volume buttons on the top panel, the included Bluetooth remote, TV connected via HDMI ARC, and the volume buttons on device streaming via network or Bluetooth. Note that streaming device volume control depends on device and application being used.

Sound Field Enhancement (SFX)

The L42ms includes a Sound Field Enhancement mode accessible via the remote. This mode enhances the ambient sound of playing content for a more spacious effect that fills the room more than standard stereo. The difference between standard and enhanced sound varies based on several factors.

- Proximity to walls, floors, and ceilings. The closer the boundaries the more reflection there is.
- Ambience in the playing content. The more spacious and open the content the more obvious the effect will be.

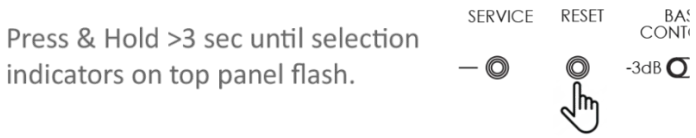
Press the **SFX** button on the remote to activate / deactivate Sound Field Enhancement.

Troubleshooting & Specifications

HDMI-ARC has **No** output.	• Ensure that the connected source is set to 2ch PCM • Select the ARC input on the TV to re-establish ARC connection. • Select another source on the TV or L42ms and then switch back to HDMI.

Restoring Factory Defaults

The L42ms can be reset to factory defaults should the need to arise. This will erase all settings for Network and Bluetooth requiring that all connections be reconfigured.



Updating Firmware

Software updates for the L42ms are via automatic OTA (Over the Air) updates. This occurs when you first connect to the L42ms or when it is connected to for wireless streaming. Contact customer support for updates on devices that have Wi-Fi or Bluetooth disabled.

Wireless Specification

Bluetooth

- Remote Control Type: BTLE 2402-2480MHz@0.16dBm
- Bluetooth operation in 2402MHz to 2480MHz with max power 10.3dBm e.i.r.p
- Bluetooth LE operation in 2402MHz to 2480MHz with max power 8.55dBm e.i.r.p

Wi-Fi

- 802.11b/g/n operation in 2412MHz to 2472MHz with max power 18.85dBm e.i.r.p
- 5GHz RLAN 802.11a/n/ac: operation in 5180MHz - 5240MHz; 5260MHz - 5320MHz; 5500MHz - 5700MHz with max power: 20.95dBm e.i.r.p
- 5.8G SRD operation in 5745MHz to 5825MHz with max power 13.49dBm e.i.r.p

Note: The device is restricted to indoor use when operated in the 5150-5350Mhz frequency range

Product Specifications

Type	Compact Integrated Music System
Low Frequency	Dual 4-inch (100mm) Pure Pulp white cone woofers
High Frequency	Dual 0.75-inch (20mm) Aluminum dome tweeters with waveguides
Amplifier Power	200W RMS Class D Total System Power 4-Channel Amplification with 75W RMS to each woofer + 25W RMS to each tweeter Configured for Stereo Reproduction
Frequency Response	55Hz-25kHz (-6dB)
Crossover Frequency	5kHz
Maximum SPL	102dB @ 1m
Sound Controls	Speaker placement boundary compensation | Selectable Sound Field Expander (SFX)
Subwoofer Output	Autosensing w/ Auto-engage of 80Hz High Pass Filter
Wireless Inputs	WiFi streaming | Bluetooth 4.2
Wired Inputs	HDMI ARC | RJ-45 Ethernet | RCA Stereo Analog | 3.5mm (1/8”) TRS Stereo Analog
Supported Digital Audio Sample Rates (PCM 2CH)	Streaming: 24-Bit | 32kHz/44.1kHz/48kHz/88.2kHz/96kHz Bluetooth: Up to 48kHz
Supported Digital Audio Formats / Codecs (PCM 2CH)	Streaming | USB | UPnP: AAC / AIFF / ALAC / DSD128 (to PCM) / FLAC / MP3 / MP4 / MQA / OGG / WAV / WMA Bluetooth: SBC and AAC HDMI-ARC: PCM 2 Channel
Bluetooth Audio	Version 4.2 Profiles: SPP (Serial Port Profile) A2DP (Advanced Audio Distribution Profile) AVRCP (Audio/Vido Remote Control Profile)
Remote Control Type	BTLE Wireless
Grille	Black foam Quadrex grille
Enclosure	Front-ported tabletop style cabinet available in black walnut or natural walnut furniture-grade wood veneer
Net Speaker Dimensions (HxWxD)	6.4" x 24.3" x 9.2" (162mm x 617mm x 234mm)
Net Product Weight	18.8 lbs. (8.5kg)
Shipping Unit of Measure:	Each
Gross Shipping Dimensions (HxWxD):	11.1” x 27.0” x 14.2” (283mm x 685mm x 360mm)
Gross Shipping Weight:	26.8 lbs (12.2 kg)
AC Input Voltage:	100 - 240 VAC (+/-10%), 50/60Hz

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Wi Fi CERTIFIED	The Wi-Fi CERTIFIED™ logo is a registered trademark of Wi-Fi Alliance®.
works with Google Cast	Google, Android, Google Play, and Chromecast built-in are trademarks of Google LLC.
HDMI	HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
MP3	MPEG Layer-3 audio decoding technology licensed from Fraunhofer IIS and Thomson multimedia.
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Harman International Industries, Incorporated.
8500 Balboa Blvd, Northridge CA 91329 United States.

European Representative: Harman International Industries, Incorporated.
EMEA Liaison Office, Danzigerkade 16G, 1013 AP Amsterdam, The Netherlands.

UK Business Address: Ground Floor, Westside 2, London Road, Apsley, Hemel Hempstead, Hertfordshire, HP3 9TD, United Kingdom.

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