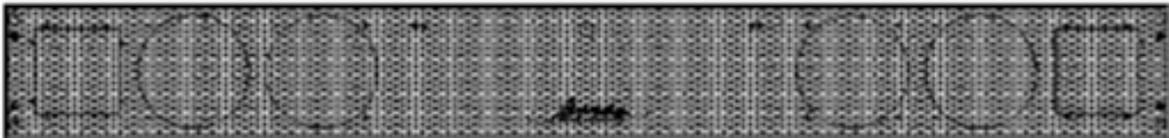




M102 SoundBar Amplifier

Owner's Manual

For all powered soundbars and related speakers with the M102 amplifier installed



**To the Owner: Installation Instructions Operating the SoundBar Amplifier
TO THE INSTALLER: BE SURE TO LEAVE THIS MANUAL WITH THE OWNER**

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www.JamesLoudspeaker.com**

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TO THE OWNER

Congratulations on your purchase of one of our highly versatile SoundBar amplifier products. Please take a moment to review this manual as it will help ensure you many years of trouble-free service from your new James Loudspeaker SoundBar amplifier product.

IMPORTANT SAFETY INFORMATION

Key to the symbols



The triangle symbol with exclamation mark (without additional comment) indicates important instructions for commissioning, operation and maintenance of the device.

The term “Caution!” next to the triangle symbol indicates a medium risk. Failure to observe this warning may result in property damage.

The term “Danger!” next to the triangle symbol indicates a high risk. Failure to observe this warning may result in death or personal injury.



This symbol indicates that you must read and observe the operating instructions and the safety and warning notices in order to operate the device.



This symbol (triangle with lightning) warns of dangerous voltages inside the enclosure and of hazards due to electric shock.



This symbol indicates that the device complies with electrical protection class 2 and therefore does not require earthing.



Devices with this symbol may only be used in a dry indoor environment.



Equipment marked with this symbol must NOT be disposed of with household waste.

Safety Precautions



Danger of electric shock

The amplifier carries mains voltage and voltages higher than 35 V AC or DC inside. It has no special protection against the intrusion of liquids or objects into the system. There is therefore a risk of lethal electric shock.

- Never touch the speaker with wet hands.
- Only use the speaker in a dry place.
- The speaker must be protected from liquids of all kinds, small metal objects and foreign substances.
- If the speaker is moved from a cold environment to a warm environment, condensation may form inside the unit. Wait until the loudspeaker has reached room temperature and is dry before switching it on.
- Unplug the main power cable immediately if there is a foreign object or liquid into the amplifier section.



Danger of injury or damage

Faulty mains supply systems or excessive mains voltage can lead to electric shocks.

- All power supply or antenna systems connected to the speaker must comply with all applicable laws and regulations and be professionally installed by an approved installation company.
- Use only the appropriate power cord to connect the speaker. Do not modify the power cord or its plug.



Caution!

Overvoltage in the power supply system (e.g. due to lightning) can damage or destroy the device and power supply unit.

Remote control and battery

This product comes with a remote control and batteries. The following must be observed when handling the remote control and batteries:

- If the batteries are discharged, the range of the remote control will decrease significantly.
- Replace the batteries with the correct size and the DC voltage.
- When replacing the batteries, the polarity of the battery must be inserted correctly. Otherwise the remote will not function.

Caution!

Improper handling can lead to material damage.

- Do not drop the remote control.
- Do not expose the remote control and battery to water or other liquids.
- Do not operate or store the remote control and battery in locations with high humidity or high or low temperature.

Danger!

Leaking or exploding batteries can pose a health hazard and cause damage to the device.

- Remove batteries if the device will not be operated for a long period of time.
- Leaking batteries must be replaced immediately.
- If you find a leaking battery, do not touch the leaking material and dispose of the batteries immediately.
- If your skin, eyes or mouth come into contact with the leaking battery material, clean the affected area immediately.
- Do not ingest batteries because the chemical may harm and burn internal body parts
- Keep new and old batteries away from children.

Unpacking Product and Tools

When unpacking your speaker, do not use sharp or pointed objects to avoid possible damage to the enclosure. Please keep the packaging in a safe place in case you need to transport the speaker later.

Your device contains the following parts:

- **1 powered SoundBar**
- **1 remote control with (2) AAA batteries**
- **1 power cable**
- **1 90-degree HDMI adapter**

Required tools:

- **Phillips head screwdriver (Not included)**

Connections

Caution - All connections to the SoundBar amplifier must be made before you connect to the main power.

ACCESSING THE AMPLIFIER CONNECTIONS

The amplifier connections can be accessed by removing the 4 screws on the front panel and tilting the amplifier down on its hinge. The arrows below show the 4 screws to remove with your Phillips head screwdriver (not included).

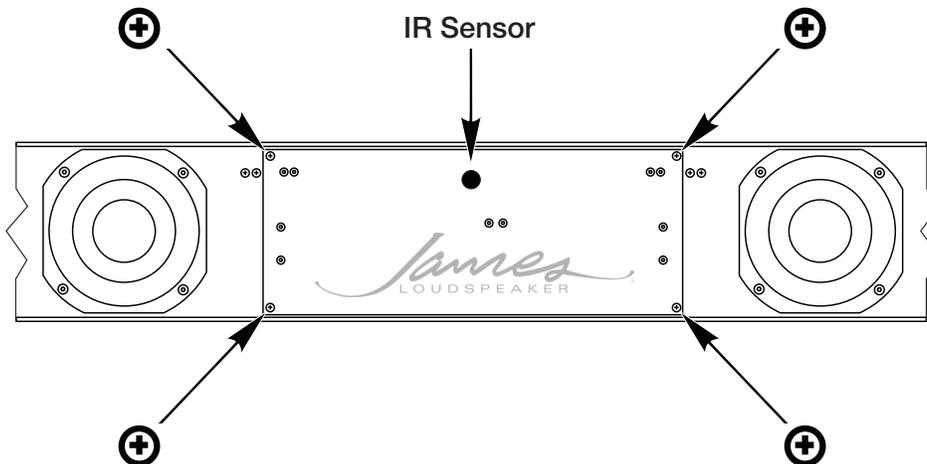


Figure 1: Removing the 4 screws to access the connections.

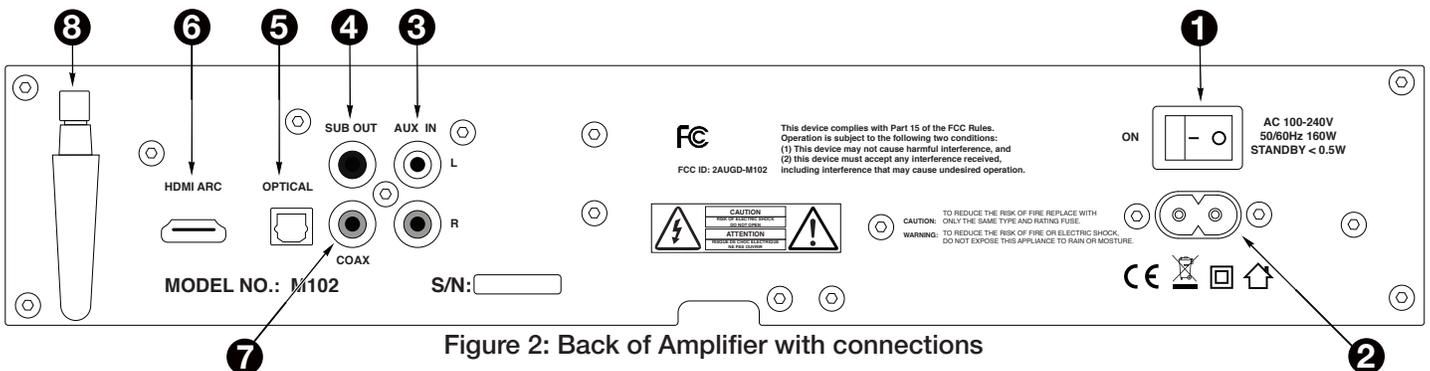


Figure 2: Back of Amplifier with connections

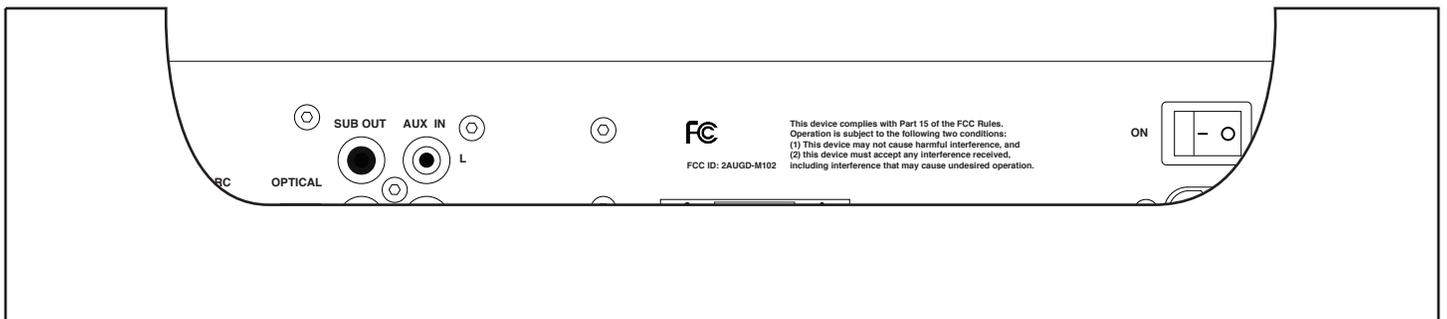


Figure 3: Top View of SoundBar with Amplifier Secured in Place

1. Connecting the signal cables

① **POWER ON/OFF**

Do not turn on until all connections are completed.

② **LINE POWER CONNECTION**

The amplifier has a universal AC power supply and will work on AC voltages between 100 and 240 volts automatically. Use only the supplied 90-degree elbow AC cable.

③ **AUX/ANALOG IN input (RCA JACKS)**

Source device with analog line output, for example CD player, DVD player, network player, preamplifier, smartphone, tablet, PCs/laptops via 3.5 mm headphone jack.

④ **SUBWOOFER PRE-OUT (RCA JACK)**

Low level signal output for external subwoofer via RCA cable. (Optional 2.4Ghz Wireless Transmitter /Receiver is highly recommended.)

⑤ **OPTICAL/DIGITAL IN (TosLink connector)**

Source device with digital output, for example CD player, DVD player, network player, satellite receiver, television, PCs/laptops (PCM up to 24/192 kHz).

⑥ **HDMI-ARC input (Not supported)**

To connect the Audio Return Channel of a compatible TV with an HDMI cable. (HDMI cable not included.)

⑦ **COAX/DIGITAL IN input (RCA JACK)**

Source device with digital output, for example CD player, DVD player, network player, satellite receiver, television, PCs/laptops (PCM up to 24/192 kHz).

⑧ **BLUETOOTH ANTENNA**

Source device with Bluetooth link such as network player, PCs/laptops, preamplifier, television, smartphone or tablet

2. Connection to the power grid

First connect the power cable to the mains connector and then to the mains supply.

Status LED Indicator

The infrared receiver and the status LED are located on the front behind the grille. During operation, the LED color will change according to the input selection. The status LED confirms triggering of a command by the remote control by flashing briefly.

Note: The sound will not be generated from the speakers for approximately 5 seconds after the unit is powered on.

LED Status	Function
Green	AUX/Analog In selected
White	Coax/Digital In selected
Purple	HDMI-ARC selected (Not supported)
Yellow	Optical/TosLink in selected
Red	Amp in standby mode (off)
Flashing Red	Amp startup (5 secs)
Any LED color flashing	Amplifier is muted
Blue	Bluetooth selected and paired
Flashing Blue Slowly	Bluetooth waiting to pair

When all inputs except Bluetooth are selected, the LED will turn off after 5 seconds of inactivity with the remote.

In Bluetooth mode, the blue LED will always stay on. In pairing mode, the LED will flash until paired. When the volume is adjusted, the LED will flash.

Remote Control

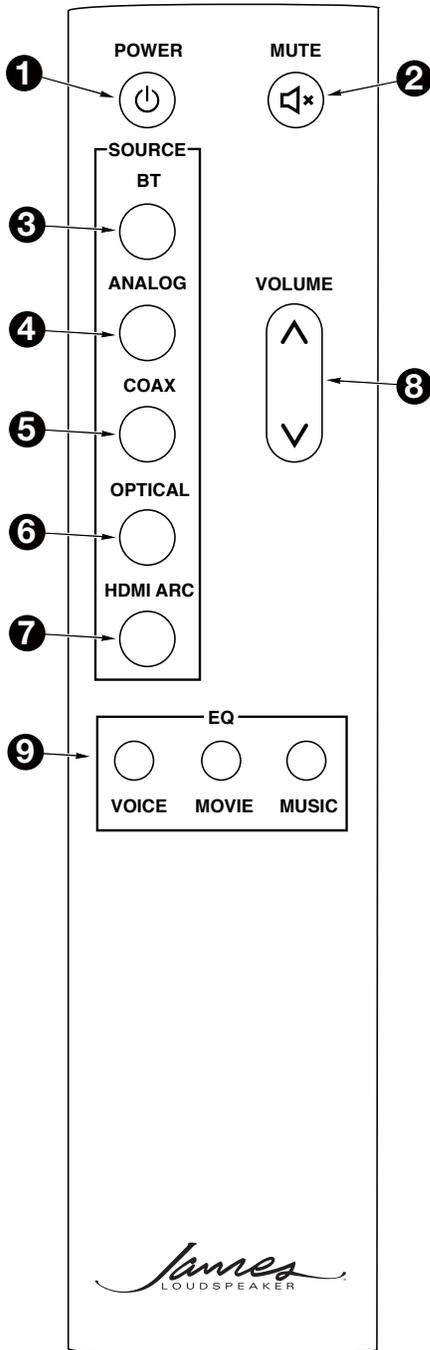


Figure 4: Remote Control

1 Power

Use the power key to turn the device on/off. (If the amplifier is turned off with the remote control, auto-sense on will be deactivated.)

2 Mute Button

The mute button allows the device to be muted and unmuted. The LED will flash while the amplifier is muted.

3 BT Button (Bluetooth)

Selects the Bluetooth input and the LED will turn blue. Also used for pairing. Refer to section 'Bluetooth: Pairing' on page 10 for details on pairing a device.

4 Analog Button

Selects the analog inputs and the LED will turn green.

5 Coax Button

Selects the digital coaxial input and the LED will turn white

6 Optical Button

Selects the digital optical input and the LED will turn yellow

7 HDMI ARC Button (HDMI ARC is unsupported)

Selects the HDMI-ARC digital input and the LED will turn purple

8 Volume Buttons

The volume can be adjusted with the volume up button ^ and volume down button v. The LED will flash while the volume is changing and will stay solid when the min/max volume is reached.

9 Voice, Music and Movie Buttons

Pressing the Voice, music or movie buttons activates special DSP algorithms, resulting in a greater sense of depth and width. The LED will flash for 3 seconds to indicate acceptance.

How to change batteries in the remote control:

- To change batteries, use a Phillips head screwdriver (not provided) to remove the screw at the bottom base of the remote. Remove the cover and the (2) AAA batteries.
- Make sure the polarity of the new batteries is correct when inserting it into the battery compartment. Then secure the cover and the screw.

Operation and Functions

Bluetooth: Pairing

Press the Bluetooth (BT) button, the blue LED light will blink on the front of the amplifier.

- There is no connection if blue LED is flashing slowly.
- The Bluetooth is in pairing mode if blue LED is flashing rapidly.
- The Bluetooth is paired if the blue LED lights continuously.

Pairing mode can be activated by pressing the BT button for three seconds on the remote control. The speaker emits a confirmation tone, disconnects the current Bluetooth connection and is visible to other devices. The pairing beacon will be “JLSM102”. The pairing must be executed within one minute, otherwise the unit will default back to the last connected device.

Adjusting the Bluetooth Volume

Virtually all devices that output an audio signal via Bluetooth have their own volume control. For the best audio quality, it is recommended to set the volume of the source device to maximum and adjust the playback volume with the remote control.

Auto Power Off (Auto Signal Sense)

The system has an automatic power off function that cannot be deactivated. When one of the inputs Bluetooth or Analog is selected, the system switches to standby mode after a maximum of 20 minutes without audio input.

With the digital inputs COAXIAL, OPTICAL TOSLINK, and HDMI-ARC (Not supported), the auto-off circuit reacts directly to the absence of a digital data stream and thus allows a faster switch-off. The playback device must deactivate the data stream accordingly.

Auto Power On and Automatic Source Selection

The electronics of the system has an automatic power on function that automatically wakes it up from standby mode as soon as a sound signal or digital data stream is present. The function is only active if the system has been put into standby mode by the automatic switch-off function. The signal must be present at the input that was selected during the automatic switch-off process. (This function is not available for Bluetooth devices.) If standby mode is set manually by pressing the on/off button on the remote control, the automatic switch-on function is deactivated.

HDMI-ARC and CEC (Not supported)

To enable sound transmission from the TV to the system both the CEC (Consumer Electronic Control) and the ARC (Audio Return Channel) functionality must be activated on the TV set. This is the default condition and the TV should automatically detect the external speaker. (Refer to the TV owner’s manual for instructions if necessary.) If these functions are active, both the TV and the remote control can control the volume of the system.

PCM Sound Format

The speaker system uses signals in the PCM (Pulse Code Modulator) format at the digital inputs. It may be necessary to adjust the settings of players such as TV sets or game consoles accordingly. To do this, select PCM as the audio output format in the playback menu. (Refer to the manual of your player for instructions if necessary.)

DSP Technology

VOICE, MOVIE and MUSIC

A sophisticated DSP (Digital Signal Processor) algorithm in the speak system calculates additional room information which when added to the source signal, leads to virtual expansion of the stereo sound stage. If the Music function is selected on the remote control, this effect is rather subtle. With Movie, the ratio of processed information to the original signal is increased; this mode is recommended especially if a very large soundstage is desired and the locating precision is less important.

Other Applications

Option for External Subwoofer

If you desire further bass extension, the system has SUBOUT (Pre-Out). This output provides a full range summed mono signal. The relative volume of the subwoofer, its crossover frequency and phase setting must be adjusted at the active subwoofer itself. All crossover settings for this function should be controlled in the optional powered subwoofer or external subwoofer amplifier.

You can also integrate an optional wireless transmitter/receiver for ease of adding bass. Installation of a subwoofer can be very challenging, but a wireless device allows you to position the active subwoofer anywhere in the room near an AC source without running an RCA cable. You should not install the optional wireless transmitter/receiver in the amplifier compartment. It should be installed on the back of the tv or another nearby location.

Care and Cleaning Tips



Caution

Improper handling of the speaker may result in damage.

- Always unplug the speaker before cleaning it.
- Before recommissioning, make sure that all connections are correct, that there are no short circuits and that the speaker is completely dry.
- Do not press hard or poke at the speaker cone or tweeter diaphragm. The material is very thin and is prone to damage easily.
- A lint-free cotton cloth or make-up brush are recommended tools for removal of dust.

Technical Data

General Description:	2 Ch Stereo Amplifier with DSP for James SoundBars
	(Each channel features bi-amplification, DSP, crossovers and EQ)
Audio Performance	
Total Harmonic Distortion:	<1% @ rated power
Rated power:	50W x 4 / 100W x 2 / 200W x 2 Peak
Channel Separation:	>70dB
Signal to Noise:	>85dB(A-Weighted)
Analog Input Level:	Max 3Vrms
Frequency Response:	10 - 20KHz +/-1dB
Analog Input Level Detection:	Yes (3mV)
Analog Input Sensitivity:	350mV (rated power)
Input Impedance:	>20K Ohms
Inputs and Outputs	
Analog In:	RCA x 2 Red/White (Right/Left)
Coaxial In:	RCA x 1 Orange
Optical In:	TosLink x 1
HDMI-ARC In (Not supported):	90-degree angle HDMI adapter
Sub Out:	RCA x 1 Black
Bluetooth	
Bluetooth Version:	4
Power Requirements	
Voltage	100-240v 50/60Hz Universal
Maximum Wattage:	160W overall
Standby Wattage:	<0.5W

Warranty Information

Please see the enclosed warranty card for warranty information.