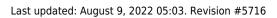


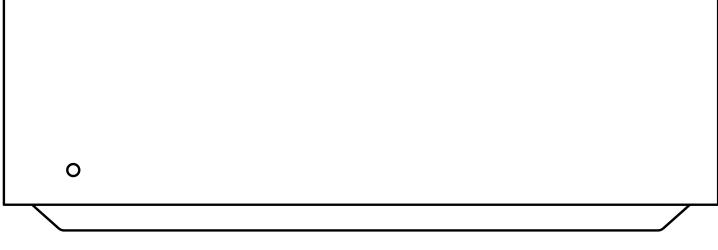
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# EDGE M





# **Users Manual**

### Introduction

Last updated: August 9, 2022 05:03. Revision #5706

This guide is designed to make installing and using this product as easy as possible. Information in this document has been carefully checked for accuracy at the time of printing; however, Cambridge Audio's policy is one of continuous improvement, therefore design and specifications are subject to change without prior notice.

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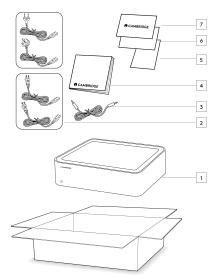
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# What's included with the EDGE M?

Last updated: August 9, 2022 05:03. Revision #5707

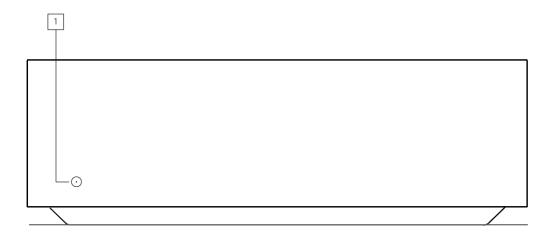
#### Inside the box of your EDGE M you will receive:



- 1. EDGE M Monoblock Power Amplifier
- UK power cord (Depending on which country the EDGE M was purchased in) EU power cord (Depending on which country the EDGE M was purchased in) CU power cord (Depending on which country the EDGE M was purchased in) JP power cord (Depending on which country the EDGE M was purchased in)
- 3. Link Cable
- 4. Instruction Manual
- 5. Warranty Card
- 6. Welcome Letter
- 7. Unboxing Card

### **Front panel**

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**1. STANDBY/ON** - Switches the unit between Standby mode (indicated by dim LED) and On (indicated by bright LED). Standby mode is a low power mode where the power consumption is less than 0.5 Watts.

#### AUTO POWER DOWN (APD)

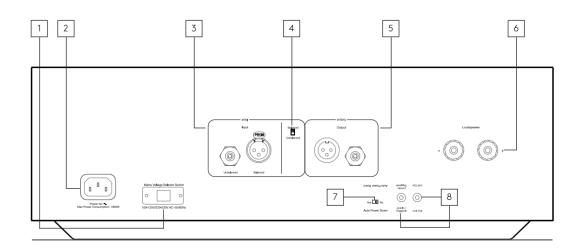
The product will automatically switch to standby mode after inactivity of 20 minutes. To enable or disable this function, use the APD switch located on the rear of the unit.

#### AUTO POWER UP (APU)

This product will automatically switch back on if it detects audio signal and will resume normal function. Auto Power Up will only work after the product has Auto Powered Down on the same input.

## **Rear panel connections**

Last updated: August 9, 2022 05:03. Revision #5709



#### **1. VOLTAGE SELECTOR SWITCH**

Note: For use by Cambridge Audio service personnel only!

- 2. AC POWER SOCKET
- 3. BALANCED/UNBALANCED INPUTS The XLR input is balanced and the RCA input is unbalanced.

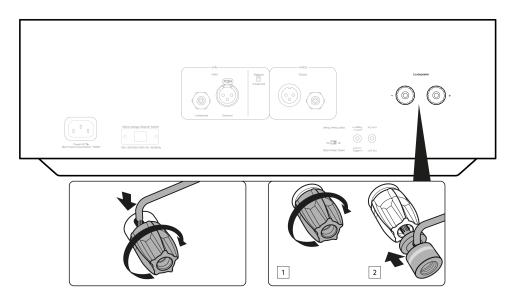
4. BALANCED/UNBALANCED SWITCH - Select depending on whether a source is connected to the balanced XLR or unbalanced RCA input.

**Note**: There will be no sound from the amp if the correct input isn't selected. If a source is connected to the balanced input, for example, ensure that the balanced switch has been selected.

5. LOOP OUT - The XLR output is balanced and the RCA output is unbalanced.

#### 6. SPEAKER TERMINALS

Note: When using a banana plug, make sure the speaker terminals are completely tightened before inserting the plug.



Connect the wires from your left channel loudspeaker to the left positive and negative terminals and the wires from the right channel loudspeaker to the right positive and negative terminals.

In each case, the red terminal is the positive output and the black terminal is the negative output.

Care should be taken to ensure no stray strands of wire short the speaker outputs together. Please ensure that the loudspeaker terminals have been tightened completely to provide a good electrical connection.

It is possible for the sound quality to be affected if the screw terminals are loose.

7. AUTO POWER DOWN (APD) SWITCH - Switches to enable or disable the Auto Power Down function. When enabled, the amplifier will automatically switch to standby mode after inactivity of 20 minutes.

8. LINK - Refer to the 'Power syncing' section of this manual for more information.

### **Getting connected**

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#### LOUDSPEAKERS

Check the impedance of your speakers. You can use types with an impedance of between 4 and 8 Ohms.

The red coloured speaker terminals are positive (+) and the black speaker terminals are negative (-). Make sure the correct polarity is maintained at each speaker connector or the sound can become weak and "phasey" with little bass.

#### USING BARE WIRE CONNECTIONS

Prepare the speaker cords for connection by stripping off approximately 10mm (3/8") or less of the outer insulation. More than 10mm could cause a short circuit. Twist the wires tightly together so there are no loose ends. Unscrew the speaker terminal, insert the speaker cable, tighten the terminal and secure the cable.

Note: All connections are made using standard loudspeaker cable.

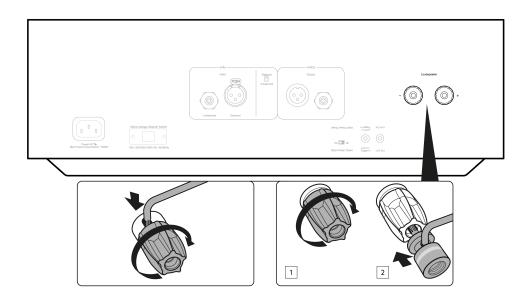


#### **USING BANANA PLUGS**

We recommend using Banana plugs with our units to establish a secure connection and ensure there are no loose strands of wire that may cause unwanted noise or interference.

Once you have stripped the outer insulation of the cable and twisted the wires as indicated below, securely connect these to your banana plugs and push the plug in as far as possible without applying excessive force.

Note: When using a banana plug, make sure the speaker terminals are completely tightened before inserting the plug.

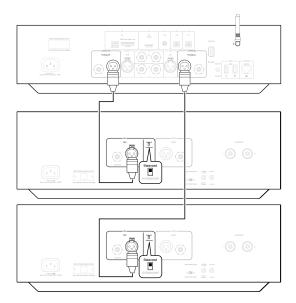


#### **BASIC CONNECTIONS**

#### **Balanced stereo connections:**

The diagram below shows a basic balanced stereo connection between two EDGE M amplifiers and the EDGE NQ. In this stereo connection each Edge M drives one speaker.

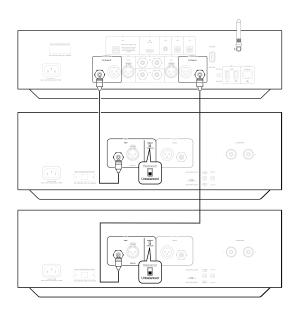
The Balanced/Unbalanced switch on the Edge M must be switched to the 'Balanced' position.



#### Unbalanced stereo connections:

The diagram below shows a basic unbalanced stereo connection between two EDGE M amplifiers and the EDGE NQ. In this stereo connection each Edge M drives one speaker.

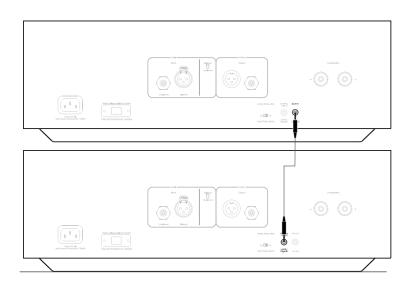
The Balanced/Unbalanced switch on the Edge M must be switched to the 'Unbalanced' position.



# **Power syncing**

Last updated: August 9, 2022 05:03. Revision #5711

Use the Link wire between two EDGE M amplifiers to synchronise power on/standby. When you turn one EDGE M On/Off, the second EDGE M will also turn On/Off.



#### **TRIGGER IN**

The EDGE M can also be connected to the trigger control output of home automation equipment to control the power state of the EDGE M. The input level should be between 5V and 12V

### **Protection circuitry**

Last updated: August 9, 2022 05:03. Revision #5712

The EDGE M includes Amplifier Protection Circuitry to detect faults with Over Temperature, DC and Over Current. If any of these faults are detected the LED standby button will turn red.

#### **Over Temperature**

Over temperature is caused by a combination of high listening levels and low impedance speakers. The EDGE M includes temperature detection which constantly monitors the heat generated by the output transistors.

If the monitored temperature reaches a high level (suitably within the limits of the output devices) the amplifier will automatically switch into a fault mode to protect itself from damage.

If the loudspeaker impedance is low the temperature of the amplifier may rise faster as the amplifier is working harder. If the amplifier is mounted in a cabinet or the ventilation slots are obstructed the over temperature detection may activate/reactivate after a short listening time.

**Remedy** - Leave the unit for 15 minutes to cool down before pressing the Standby button to resume normal operation. If the unit has not fully cooled down then the temperature may reach the limit soon after the amplifier is powered up.

#### DC

EDGE M offers loudspeaker protection if the output of the amplifier goes to a high constant voltage (DC) because of some internal fault. This is a rare fault, although detecting it will protect your loudspeakers from damage.

**Remedy** - Due to the necessary sensitivity of the DC protection circuit, extremely hard clipping of the amplifier may cause DC protection to be triggered. If this fault occurs, please contact your dealer for service or our support team <a href="https://www.cambridgeaudio.com/gbr/en/support-query">https://www.cambridgeaudio.com/gbr/en/support-query</a>.

#### **Over Current**

EDGE M offers V/I (voltage/current) protection by constantly monitoring the output transistors to keep them working inside their Safe Operating Area (SOA). The SOA is a set of limits given by the output transistor manufacturer to ensure reliability. The V/I protection has been incorporated within the amplifier circuitry to provide a fast response to temporary overload conditions. When the V/I protection is triggered the unit will continue to operate but distortion may be heard as the unit protects the output transistors.

Remedy - Reduce the volume. If distortion is still present, check the speaker connections and impedance ratings.

### Troubleshooting

Last updated: August 9, 2022 05:03. Revision #5713

#### There is no power

- Ensure the AC power cord is connected securely.
- Ensure the plug is fully inserted into the wall socket and is switched on.
- Check fuse in the mains plug or adaptor.

#### There is no sound

- Make sure the unit is not in Standby mode.
- Check that source component is properly connected.
- Check that your speakers are properly connected.
- Ensure that the correct input has been selected via the Balanced/Unbalanced switch.
- If possible, use different interconnect cables and speaker cables.
- Check your source devices' volume control to ensure this is not muted.
- Check with alternative source device.

#### There is no sound on one channel

- Check speaker connections.
- Check interconnects.

#### There is weak bass or diffused stereo imaging

• Ensure that speakers are not wired out of phase.

#### There is a loud buzz or hum

• Ensure no interconnects are loose or defective.

#### The LED standby button is red

• Check the 'Protection Circuitry' section for troubleshooting steps.

# **Technical specifications**

Last updated: August 9, 2022 05:03. Revision #5714

#### Continuous power output:

- 200W RMS into 8 Ohms
- 350W RMS into 4 Ohms

#### THD (unweighted):

- <0.002% 1kHz at rated power (8 Ohms)
- <0.02% 20Hz 20kHz at rated power (8 Ohms)

#### Frequency Response:

<3Hz - >80kHz +/-1dB

#### S/N ratio (ref 1W into 8 Ohm):

>93 dB

#### S/N ratio (ref max power):

>115 dB

#### Gain:

28dB (RCA)/ 22dB (XLR)

#### Input sensitivity:

1.6V RMS (RCA) / 3.5V RMS (XLR)

#### Input impedances:

- balanced 47k Ohm
- unbalanced 47k Ohm

#### Inputs:

Balanced, Unbalanced

#### Outputs:

Speaker, Loop out

#### Max power consumption:

1000W

#### Standby power consumption:

<0.5W

#### Dimensions:

150 x 460 x 405mm (5.9 x 18.1 x 15.9")

#### Weight:

23.6kg (52.0lbs)

# **Frequently Asked Questions (FAQ)**

Last updated: August 9, 2022 05:03. Revision #5715

#### What impedance Speakers can I use with the EDGE M?

You can use speakers with an impedance between 4-8 Ohms with the EDGE M. The EDGE M outputs 200W RMS into 8 Ohms and 350W RMS into 4 Ohms.

#### What amplification class does the EDGE M use?

The EDGE M uses Class XA amplification. For Class XA, the crossover point is moved so that both sets of transistors are always on until the signal reaches a loud enough level.

This means that for low level signals, the amplifier is essentially operating as a Class A amplifier and it is only when the signal is sufficiently loud enough that the transistors switch over. Any crossover distortion is therefore masked within the signal.