Manuals+ — User Manuals Simplified.

MATRIX AUDIO X2 Element Pure

MATRIX AUDIO X2 Element Pure User Manual

Contents

MATRIX AUDIO X2 Element Pure
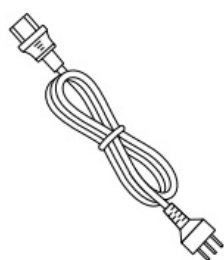
Packing list
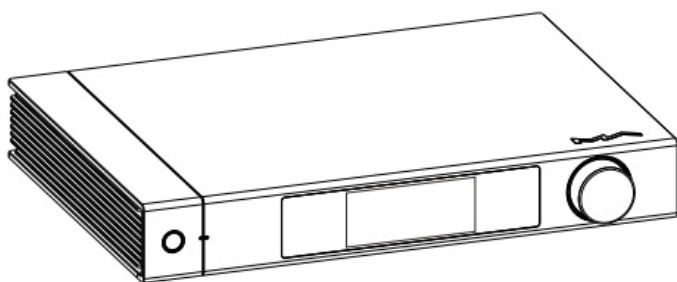
Product

Remote control

Power cable

Quick start guide, warranty card

Parts and names

Front

1. **Power on/Standby**

   After connecting to power supply, press this button to power on the unit, press it again to let the unit standby. It takes about 30 seconds for the first start up after connecting to power supply each time.
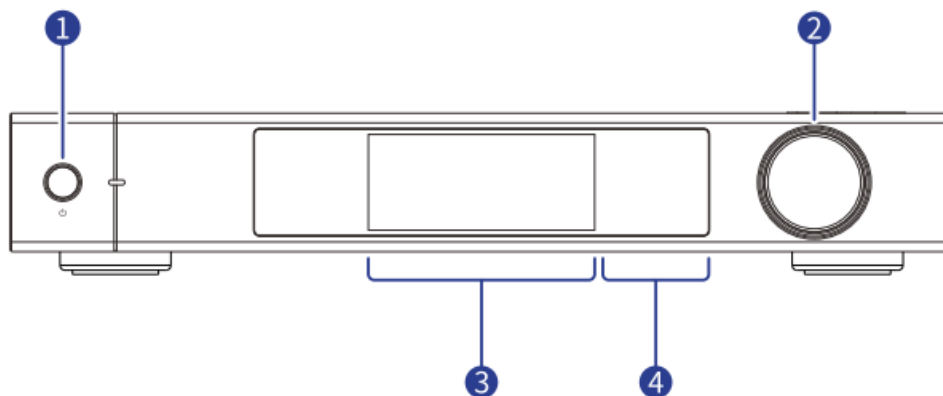
2. **Knob/Button**

   Set the output volume by turning the knob, when the"Lineout Mode" is set to Fixed through MA Remote App, the line output volume is not adjustable. Press the knob to mute, press the knob again or turn the knob to
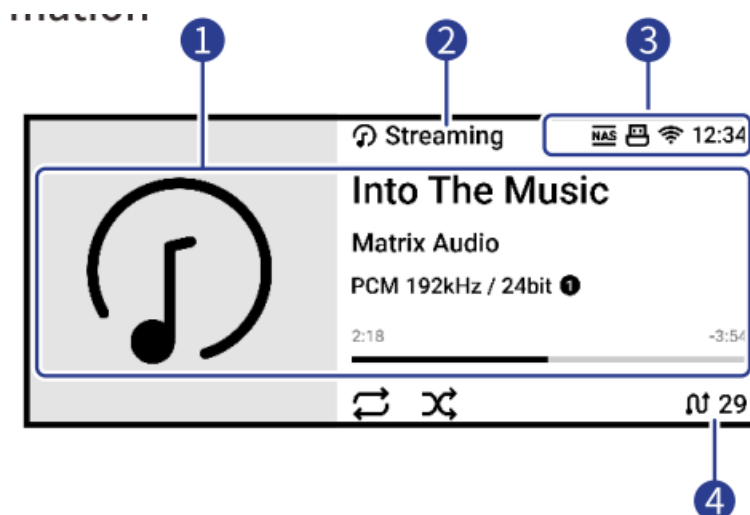
unmute.

3. LCD screen
4. Playback touch control area

LCD screen

Display information

1. **Media and audio information**

   Including album art, track title, artist, duration, audio format, sampling rate of the track and the filter type being used.

2. **Input channel**

   The name of selected input channel.

3. **Status**

   Including status of clock, network connection, USB storage, NAS and Async/Sync mode.

4. **Output channel and volume**

   The selected output channel and volume level.

Operation of touch screen

Swipe right to open the shortcut page. Swipe left to open menu.

Rear

1. **Analog output**

   Connect to active speakers or amplifiers through RCA or XLR cables.

2. **Analog input**

   Connect to vinyl turntables or devices with analog outputs through RCA cables.

3. **Optical & Coaxial input**

   Connect to front-end devices with S/PDIF signal outputs through optical or coaxial cables.

4. **11S·LVDS input**

   Connect to digital interface products from Matrix Audio or other compatible devices through HDMI cables. The unit is compatible with 4 kinds of 11S·LVDS pin definitions, which can be viewed and configured in MA Remote App.

5. **HDMI ARC**

   Connect to TVs with ARC (Audio Return Channel) functionalities through HDMI cables.
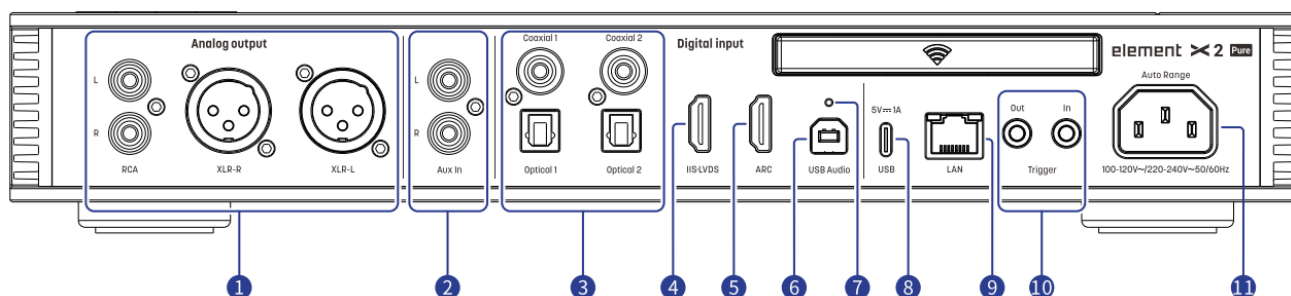
6. **USB audio input**

   Connect to computers as an external audio device through USB Type B cables.

7. **Reset button**

   Only use this button when the unit works incorrectly, the unit can be reset to factory state.

   Please operate under the instructions by service team from Matrix Audio.

8.

   USBType C

   Connect to USB storage devices which requires not higher than SV/IA power supply.

9. **Ethernet**

   Connect to LAN port of the network router, the connection supports up to Gigabit Ethernet transmission.

10. **Trigger input/output**

    Connect to audio devices with trigger ports through a 03.5 mm mono plug cables, to achieve a linkage control

between the element device and other devices. The trigger output provides a 12V DC signal.

11. **AC input**

This unit adapt to AC100-120V and AC220-240V power supply automatically, please make sure to use the product in the power voltage range mentioned above.

Please use the power cable which includes an earth wire. Please ensure you have a reliable earth wire connection. Otherwise, the casing of the unit may have a slightly charged touch. If you need the unit to be turned off completely, please unplug the power cable.

Remote control
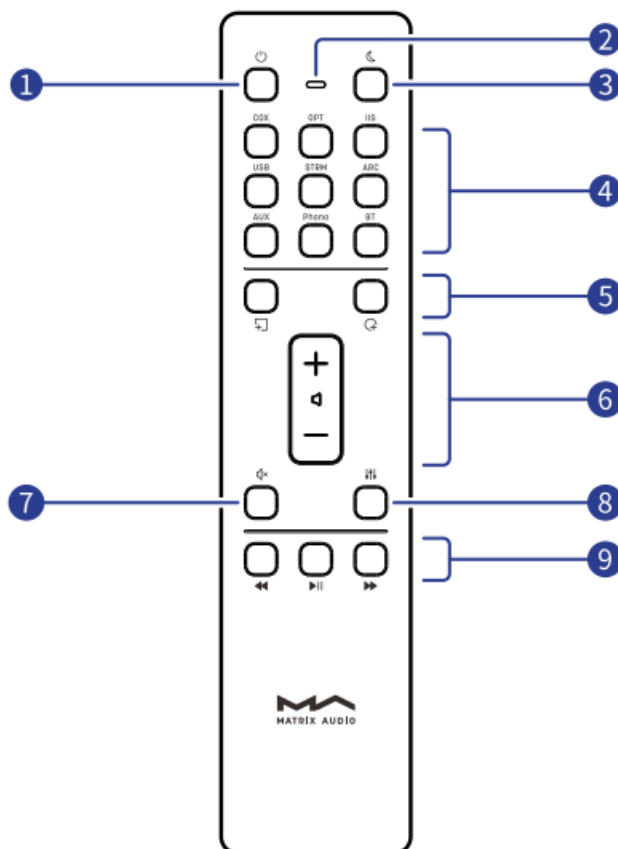
1. Power on/Standby
2. Working/Battery status
3. Dimmer
4. Input channels

   *Some are reserved.
5. Programmable buttons

   Define the functionalities of buttons through MA Remote App, they are not defined by default.
6. Volume
7. Mute/Unmute

   Press to mute, again to unmute.You also can unmute by pressing the+/- buttons in mute state.
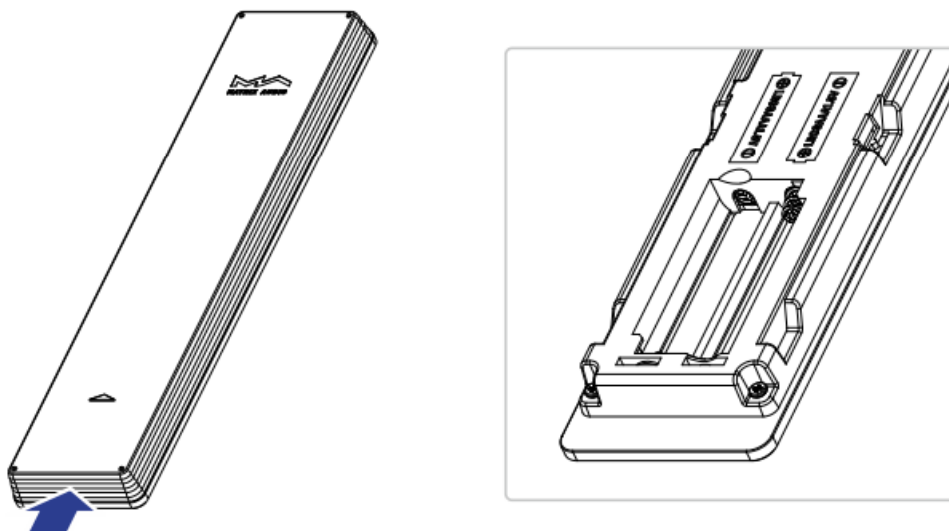8. Filters

   Switch the corresponding filter types applied to the current playing audio format in a loop.
9. Playback control area

   When the input channel supports, the playback can be controlled by these buttons.

Slide in the direction of the arrow to open the battery holder. Please pay attention to the polarity when installing the batteries.

Point the remote control to the element device when using it, the operating distance is about 8 meters. When the battery is low, the LED indicator on the remote control flashes red, there will also be a notification showing on the device screen.

If there are more than one Matrix Audio device in a single environment, in order to prevent 1 remote control from controlling multiple devices at the same time, we preset 5 address codes in the remote control, these address codes can be configured in the Settings menu showing below, and follow the instructions on the screen.
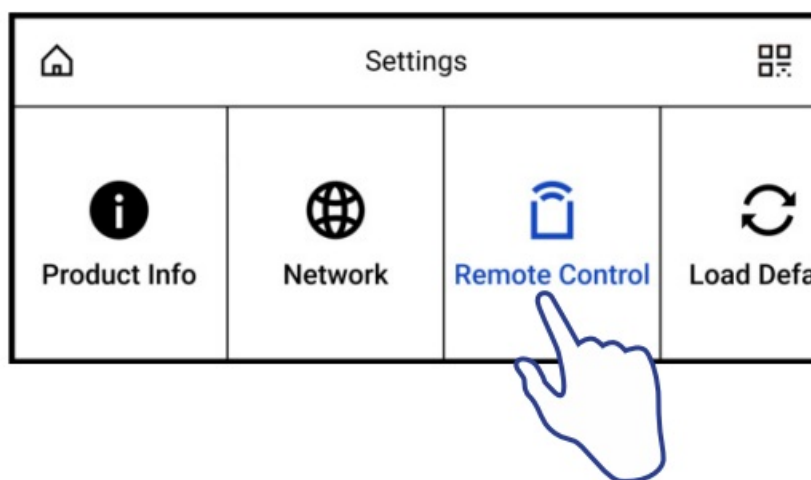
Operations before using

Connect to network

LAN
Connect the product to the LAN port of the network router through an Ethernet cable. It is recommended to set up the router as a DHCP server, the unit will be assigned an IP address automatically. Select "LAN" in option Network in Settings menu, you can configure the network specs manually, after joining the network, there will be a shown in the status bar.

Wi-Fi

Enter Settings menu – Network – Wi-Fi, after network scanning complete, choose the SSID of your network and enter the passwords, there will be a ⌃ shown in the status bar after connected. The device supports 2.4GHz/5GHz wireless network.
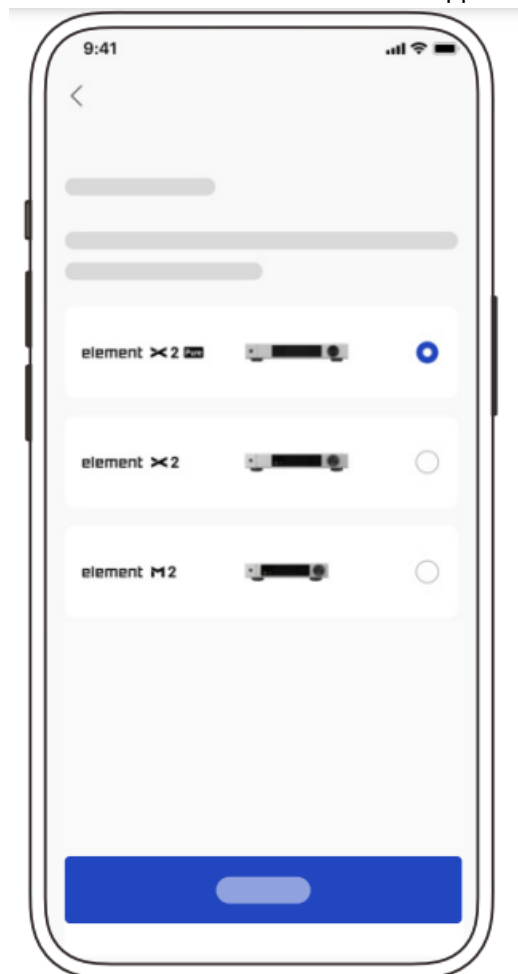
When the connection has no Internet access, there will be a 🌐 in the status bar.

MA Remote App
Install MA Remote App for your iPad, iPhone or Android phone.

Open the app, follow the instructions to add the device to MA Remote App.

To control and configure the element device through MA Remote App, or playback streaming music from the element devices, please refer to **matrix-digi.com/tutorials** for instructions.
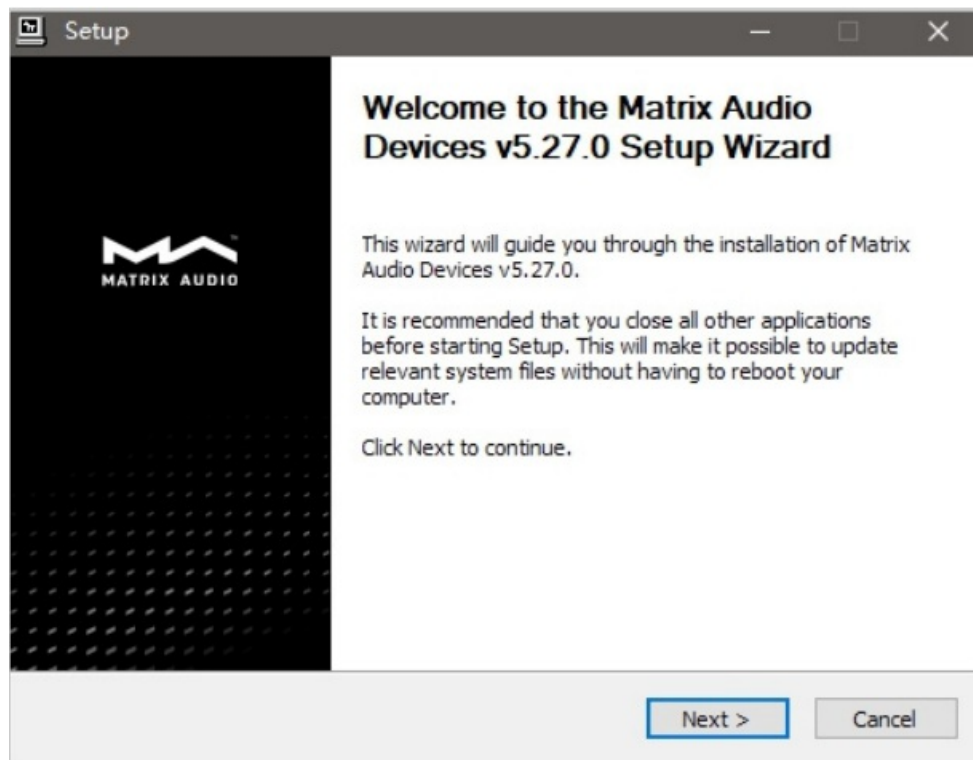
Tutorial Video

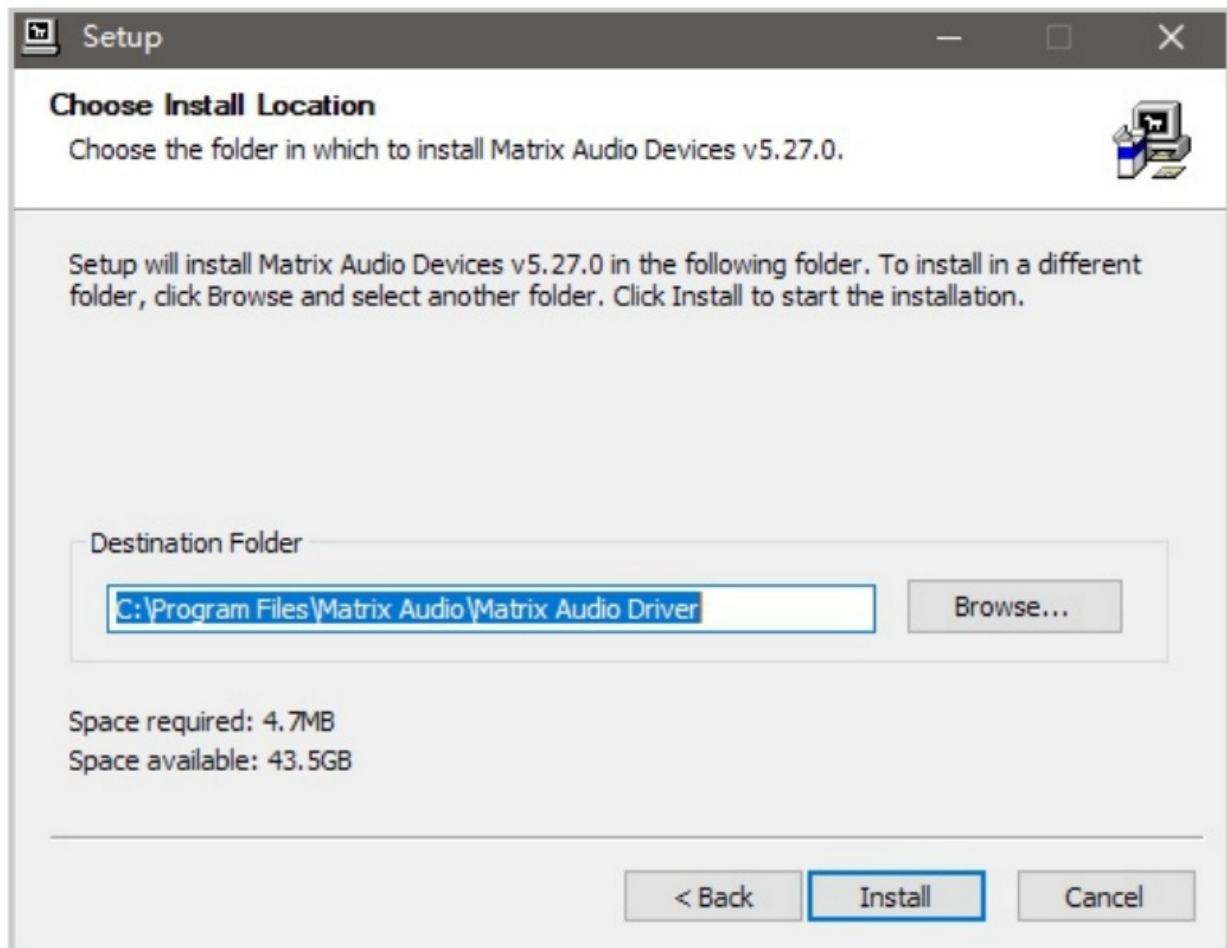**Driver for USB Audio**

When connecting the device to a Windows 7 /8/10/11 computer via USB connection as an external audio device, please install drivers as following instructions:
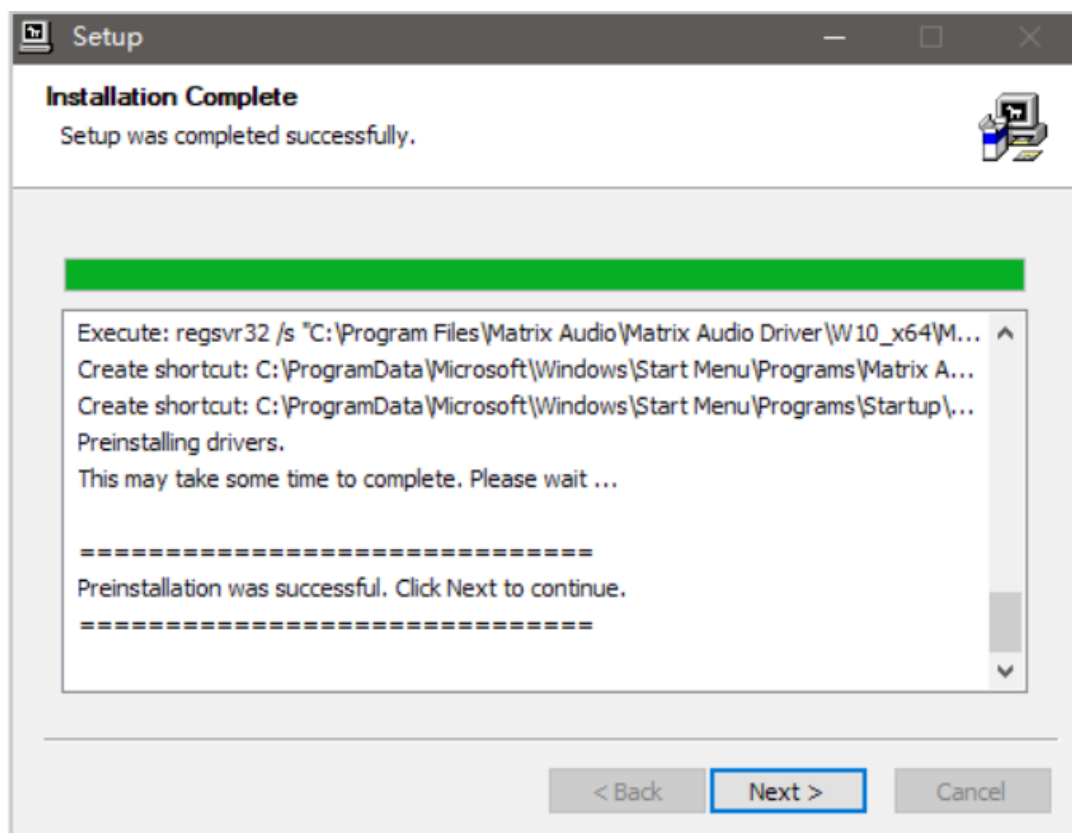
1. Double-click the driver installation package and click "Next".

2. Select installation path and click "Install".

3. Click "Next" after the installation is complete.

4. Click "Finish" to close the Setup Wizard.
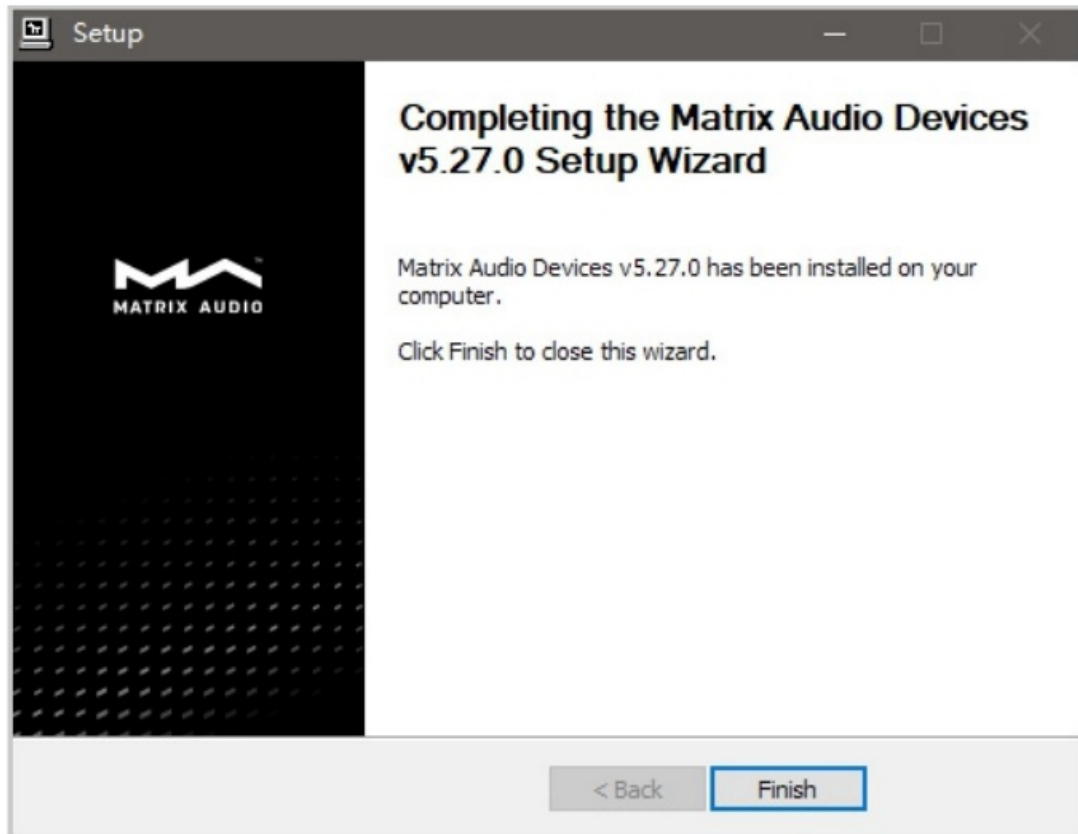
It's no need to install drivers for macOS, just select "element Series" as the audio output device in Sound Preferences.
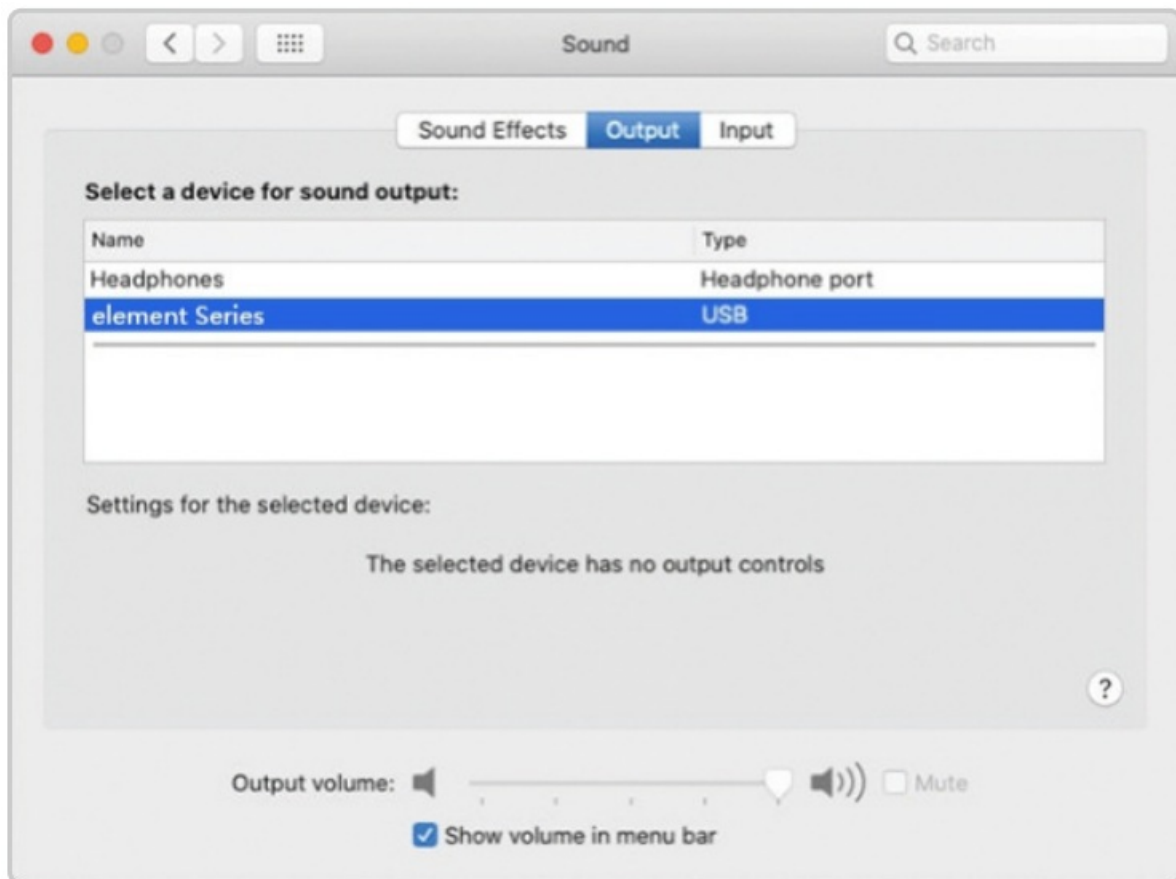
The element devices can be connected to an iPhone or iPad via a Lightning to USB Camera Adapter.
The element devices can be connected to Android devices via an OTG adapter, but not every Android devices are compatible with device via OTG connection.

Technical specifications

Hardware Platform
CPU: NXP i.MX 6Quad Cortex-A9
D/A Chip:2• ES9039PRO
Clock Source: Cr ystek CCHD-950

Digital Input
Coaxial & Optical:
PCM 16-24Bit/44.lkHz, 48kHz, 88.2kHz, 96kHz, l 76.4kHz, 192kHz
DSD 2.8MHz (DoP)

IIS·LVDS:
PCM 16-32Bit/44.lkHz, 48kHz, 88.2kHz, 96kHz, l 76.4kHz,
192kHz, 352.BkHz, 384kHz, 705.GkHz, 768kHz
DSD 2.8MHz, 5.6MHz, 11.2MHz {DoP)
DSD 2.8MHz, 5.6MHz, 11.2MHz, 22.4MHz (Native)

USBAudio:
PCM 16-24Bit/44.lkHz, 48kHz, 88.2kHz, 96kHz, l 76.4kHz,
192kHz, 352.BkHz, 384kHz, 705.GkHz, 768kHz
MQA 16-24Bit/44.lkHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz,
192kHz, 352.BkHz, 384kHz MQA or MQA Studio stream
DSD 2.8MHz, 5.6MHz, 11.2MHz (DoP)
DSD 2.8MHz, 5.6MHz, 11.2MHz, 22.4MHz {Native)

HDMIARC:
PCM 16-24Bit/44.lkHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz

Aux Input
SNR: 106dB A-weighting
THD+N: <0.00250/o@lk, <0.0030%@20Hz-20kHz
Frequency Response: 20Hz-20kHz ±0.07 -3dB@43kHz
Channel Crosstalk: >-102dB
Input Level: 2.lVRMS Maximum

Line Output
XLR
SNR: 131dB A-weighting
E!lE!mE!nt >< 2 lm
THD+N: <0.0000680/o@lk, <0.000075%@20Hz-20kHz
Frequency Response: 20Hz-20kHz ±0.05 -3dB@85kHz
Crosstalk: >-150dB
Output Level: 4.5VRMS@0dB,15VRMS@+ 10d B

RCA
SNR: 127dB A-weighting
THD+N: <0.0000760/o@lk, <0.000085%@20Hz-20kHz
Frequency Response: 20Hz-20kHz ±0.08 -3dB@83kHz
Channel Crosstalk: >-139dB
Output Level: 2.2VRMS@0dB, 7.SVRMS@+lOdB

Network
LAN : 10/100/1000 Mbps
WLAN : 2.4GHz/5Ghz

USB

The USB port provides a maximum power of SV/IA.

The USB port works with devices which conform to the USB mass storage standard and supports FAT, FAT32, exFAT, and NTFS file formats, but is not guaranteed to be compatible with all storage devices.

Trigger

Trigger in : DC 6-12V <l0mA

Trigger out : DC 12V/50mA MAX

Appendix

MA Player

Controller app : MA Remote App

Local Playback:

Format Supported: MP3 , WMA , WAV , AIF, AIFC, AIFF, AAC, FLAC, OGG, APE, ALAC, M4A, DSF, DFF,CUE

PCM 16-24Bit/44.lkHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz,352.8kHz, 384kHz, 705.6kHz, 768kHz

MQA 16-24Bit/44.lkHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz, 352.8kHz, 384kHz MQA or MQA Studio stream

DSD 2.8MHz, 5.6MHz, 11.2MHz, 22.4MHz

Roon Ready:

PCM 16-24 Bit/44.1 kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz, 352.8kHz, 384kHz, 705.6kHz, 768kHz

MQA 16-24 Bit/44.1 kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz, 192kHz, 352.8kHz, 384kHz MQA or MQA Studio stream

DSD 2.8MHz, 5.6MHz, 11.2MHz, 22.4MHz

AirPlay 2, DLNA/UPnP, TIDAL Connect, Spotify Connect, vTuner, Radio Paradise, the audio specs depend on the service provider.

Power specifications

Power Voltage: AC 100V-120V 50/60Hz/AC 220V-240V 50/60Hz

Standby Power Consumption : < SW
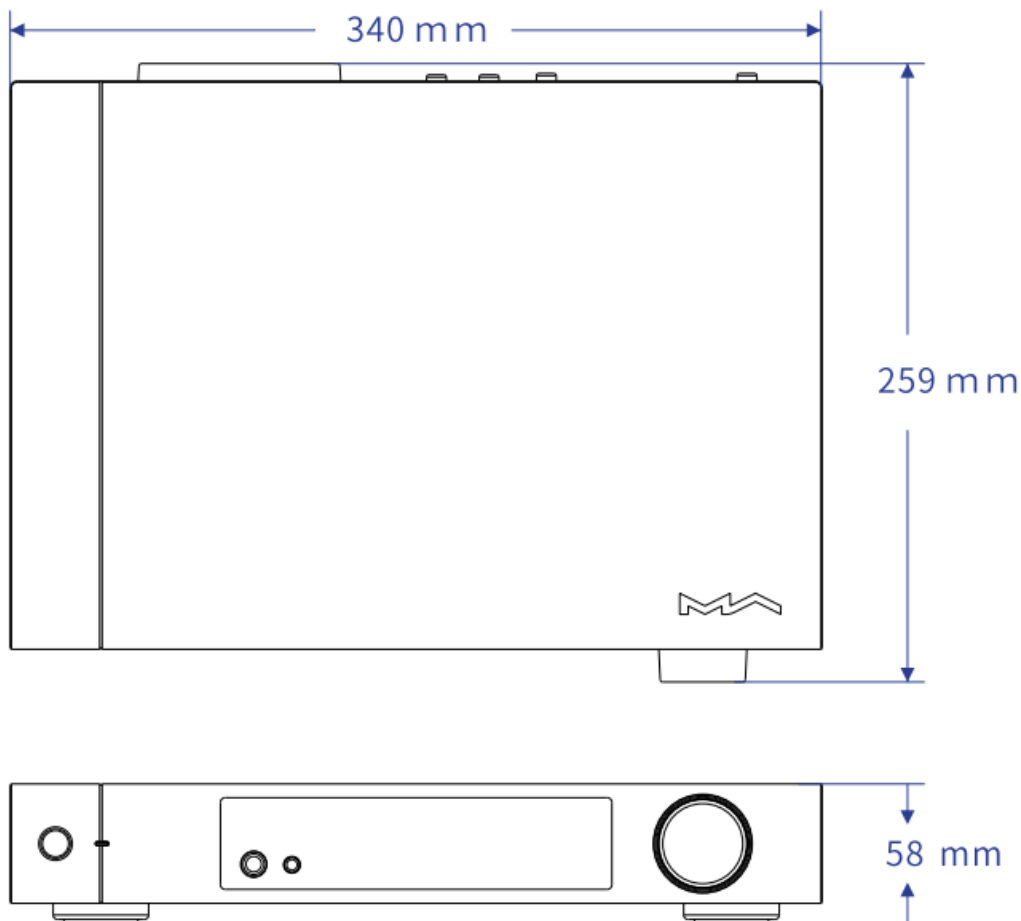
Maximum Power Consumption: <SOW

Other specifications

Weight: 4 kg {8.82 pounds)

Size: Width 340 mm {13.39 inches),

Depth 259 mm {10.20 inches),

Height 58 mm (2.28 inches).

About MQA (Master Quality Authenticated)

This unit includes a MQA full decoder, which enables you to playback MQA audio files via streaming or USB audio port, delivering the sound of the original master recording.

The dots beside the MQA logo green **MQA.or blue MQA.** to indicate that the unit is decoding and playing an MQA stream or file, and denotes provenance to ensure that the sound is identical to that of the source material. It glows blue **MQA.** . to indicate it is playing an MQA Studio file, which has either been approved in the studio by the artist/producer or has been verified by the copyright owner.

The dot glows magenta **MQA.** to indicate that the unit is rendering an MQA stream or file. This delivers the final unfold of the MQA file.

MQA and the Sound Wave Device are registered trade marks of MQA Limited. ©2016

About Roon Ready

Being Roon Ready means that Matrix Audio music streamers transparently discover and connect to Roon without any configuration, and bit-perfect audio is delivered from Roon to your music streamers.

About Spotify

Use your phone, tablet or computer as a remote control for Spotify. Go to **spotify.com/connect** to learn how. The Spotify Software is subject to third party licenses found here: **https://www.spotify.com/connect/third-party-licenses** .

- This product is for indoor use only.
- For full ventilation, it is recommended to reserve a space of larger than 5 cm around the device.
- Do not cover the air vents with stuffs such as papers, tablecloths, and curtains to obstruct ventilation.

- Do not place stuff with flame, such as lighted candles, on the device.
- If the device is used in tropical areas, please be careful to prevent insects from entering the unit through the air vents.
- The device must not be subject to water droplets or splashes. Please do not place stuffs filled with liquids such as vases and cups on or near the device.
- Do not put stuffs around the device power plug and the AC power socket, in order to disconnect the power supply easily when needed.

HIGH-PERFORMANCE AUDIO
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Documents / Resources

MATRIX AUDIO X2 Element Pure [pdf] User Manual
X2 Element Pure, X2, Element Pure, Pure

References

- **User Manual**