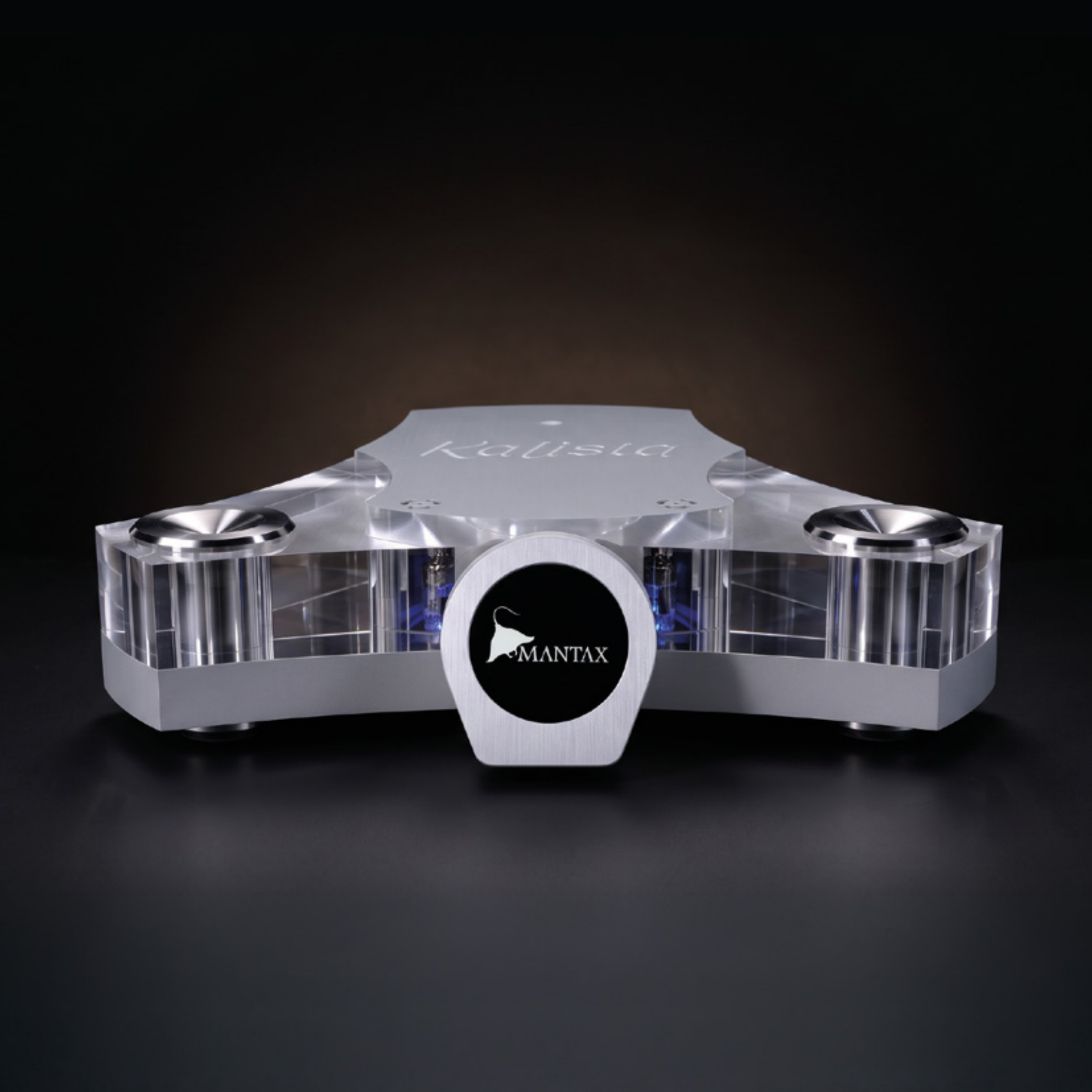
Kalista

Mantax

Owner’s manual


Kalista
MANTAX

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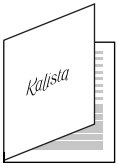
Accessories

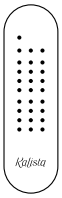
Make sure you find the following accessories inside the box:



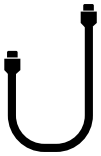
Power cable



Manual



Remote control

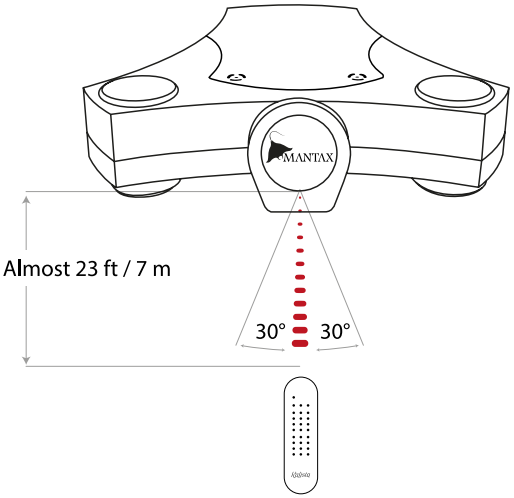


ODU cable

REMOTE CONTROL

Point the remote control at the sensor on the device.

For safety reasons, the remote control battery is not included. (LR03 AAA).



Important information

SAFETY INFORMATION

To avoid the risk of fire or electric shock, keep the unit in a dry place.

Do not expose it to moisture.

Before connecting and operating the product, please read this manual carefuly.

The power supply generates voltages that are dangerous to the human body:

- Do not insert any metal objects through the top cover or on the vents, or on the connectors.
- Never remove the top cover if the unit is not unplugged. Please contact your dealer for service. Product features, specifications and design to change without notice.

Always disconnect your entire system from the mains before connecting or disconnecting any cables, or before cleaning any components.

A three-conductor AC (IEC) main power cable with a grounding connection must be used. To avoid the risk of shock, all three connections should always be used.

Never use flammable or combustible chemicals for cleaning (especially on the touch screen).

Never operate the unit without the top cover in place.

Never wet the inside of the device with any kind of liquid. Never block the air flow through the ventilation slots.

Never bypass fuses or replace the fuse with another type than specified.
Never attempt to repair the product; contact the factory or your dealer.
Never expose the product to extremely high or low temperatures.

Always unplug all sensitive electronic equipment during lightning storms.

POSITION OF THE DEVICE

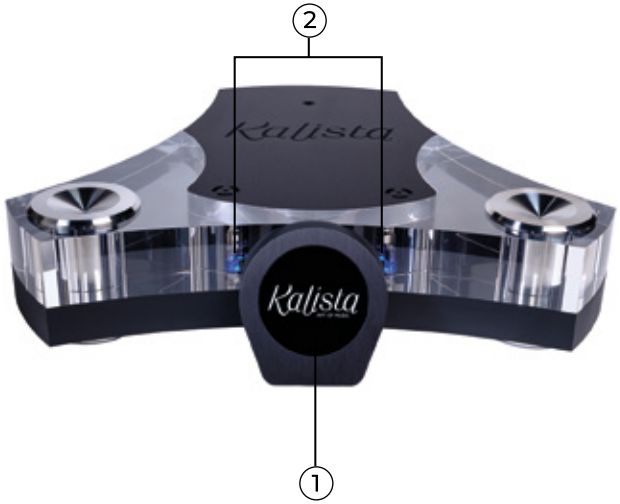
For optimal operation of the unit, please ensure that it is:

- Positioned on a flat surface to make it stable.
- Positioned so that all three feets are in contact with the surface.

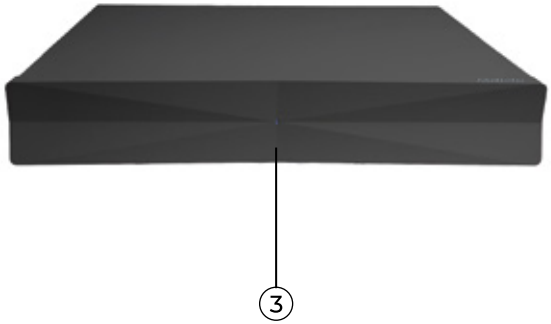
Functions

FRONT PANEL

Mantax



Elektra power supply



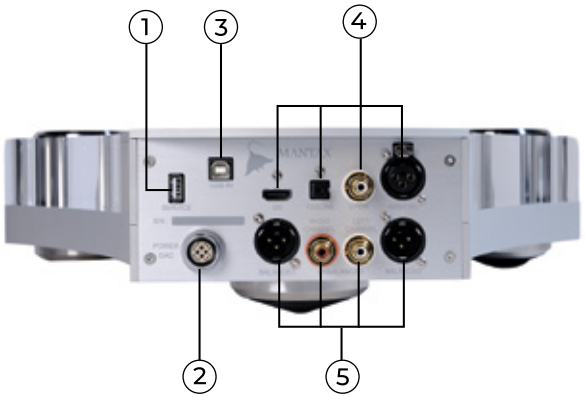
① Display: 3 inches touch screen to control the device.

② Tubes: analogue tubes outputs.

③ Power LED : indicates that the unit is switched on

BACK PANEL

Mantax



1. USB: connexion for an external storage
2. Power DAC: connection to Elektra power supply
3. USB: for device update
4. Digital inputs:
   I2S - S/PDIF - AES / EBU
5. Analogue outputs:
   XLR x 2 / RCA x 2

Elektra power supply



6. Power connection
7. Power supply socket
8. ON / OFF switch

CABLES TO PURCHASE

To use the audio outputs of the device, make sure you have all the necessary cables:


AES / EBU cable


USB cable


S/PDIF cable


Toslink cable


HDMI cable

CONNECTING AN DIGITAL SOURCE

You can connect Mantax digital inputs to any compatible digital source. This connection can be made using AES/EBU, S/PDIF, Toslink or USB cable (④ page 7).

CONNECTING A SPEAKER OR PRE-AMP

You can connect Mantax analog outputs to any compatible pre-amp/amp or speakers. This connection can be made using RCA or XLR cable (⑤ page 7).

CONNECTING THE POWER CABLE

To power up your device, you must first connect the power cable to the back of your device. This cable is included in the package (⑦ page 7).

CONNECTING THE ODU CABLE

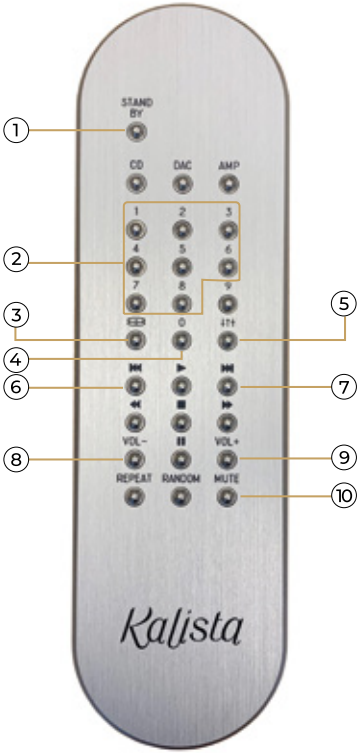
To connect the power supply to Mantax, connect the ODU cable to the device. This cable is included in the package (② page 7).

USING THE DEVICE

To power up your device, you must first connect the power cable to the back of the power supply (⑦ page 7). This cable is included in the package.

Once the power cable is plugged in, press the switches on the back of the units to turn it on (I) (⑧ page 7).

When it is switched on you can navigate the menus to play your music with your remote control. Turn off Mantax after use (O).



REMOTE CONTROL - DAC MODE

① Standby: ON/OFF.

② Number 1 to 8*:

1. Linear Phase Fast
2. Minimum Phase Fast
3. Linear Phase Slow
4. Minimum Phase Slow
5. Apodizing Fast
6. Corr. Min. Phase Fast
7. Brickwall
8. Hybrid Low dispersion

③ Layer : switch between DAC ESS/AKM

④ Number 0*: Tubes ON/OFF

⑤ Settings mode: switch to settings mode

⑥ Left/Rewind: input -

⑦ Right/Forward: input +

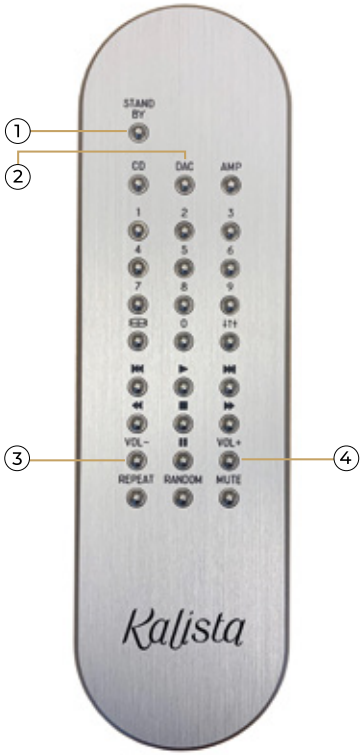
⑧ VOL -: decrease the volume

⑨ VOL +: increase the volume

⑩ Mute ON/OFF

**DAC Internal Digital Filter Parameter*

REMOTE CONTROL - SETTINGS MODE



① Standby: ON/OFF.

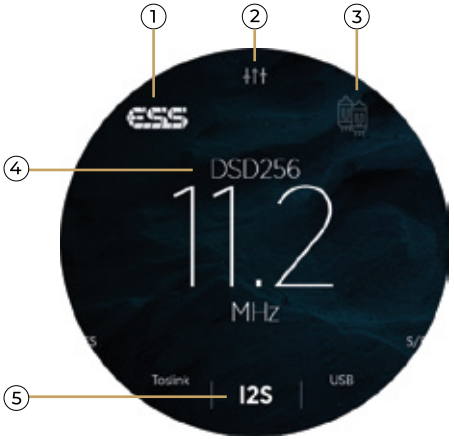
② DAC mode:
switch to DAC mode.

③ VOL -:
decrease the brightness.

④ VOL +:
increase the brightness.

Device Interface

MAIN INTERFACE



① **DAC stage**
Touch: change DAC mode.
Info: ESS use the ESS DAC, AKM use the AKM DAC.

② **Settings button**
Touch: go to menu settings.

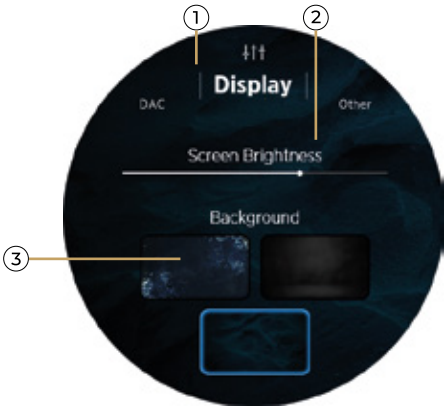
Analogue tube output
③ Touch: ON/OFF.
White = ON - Grey = OFF

④ **Sample rate**
Info: actual playback sample rate.

⑤ **Input +/-**
Touch: change the inputs

SETTINGS INTERFACE

Settings - Display Menu

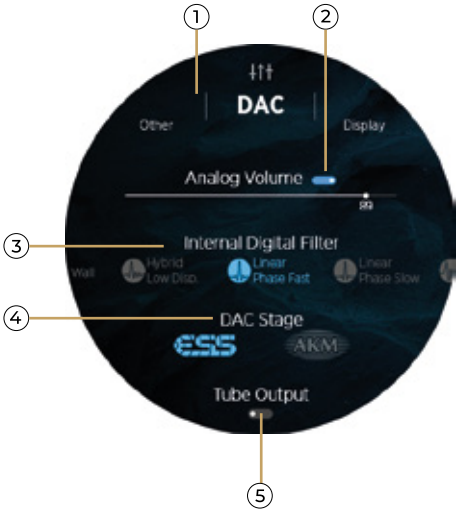


① **Menu**
Touch: swipe to change menu.

② **Screen brightness cursor**
Touch: define brightness with cursor.

③ **Background**
Change between 3 different backgrounds.

Settings - DAC Menu



① **Menu**
Touch: swipe to change menu.

② **Analog volume ON**
Touch: change the volume.

Analog volume OFF
Touch: change the analogue output level.
Info: 1V4, 2V5 & 3V
Output level 1V4 and 2V5 are fixed by the DAC volume control.
3V = Full range = no volume control.

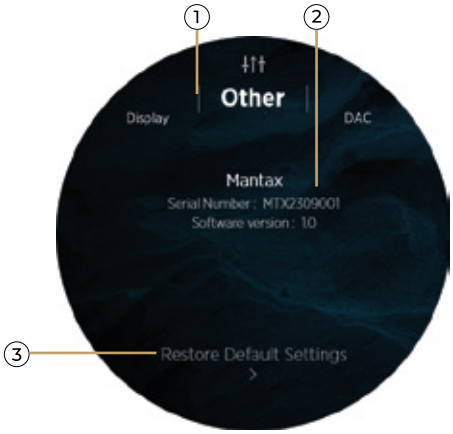
③ **Internal Digital Filter**
Touch: swipe to change filter.

- Linear phase fast
- Linear phase slow
- Minimum phase
- Apodizing fast
- Brick wall
- Corr. min phase fast

④ **DAC stage**
Touch: change DAC mode.
Info: ESS use the ESS DAC, AKM use the AKM DAC.

Analogue tube output
Touch: ON/OFF.
Info: when ON, analogue output stage is tube
When OFF, analogue output stage is AOP.

Settings - Other Menu



① **Menu**
Touch: swipe to change menu.

② **Device information**
Serial number, firmware version and streaming board version.

③ **Restore default settings**
Touch: will ask confirmation before restoring device settings to default.

Troubleshooting

TIPS FOR A QUICK DIAGNOSIS

If you notice a fault with your device, check first:
1. All connections are correct?
2. Is the device used as described in the user manual?

If this device is not working properly, please check the symptoms in this section.

If none of the symptoms correspond to any of those described in this manual, disconnect the power to your device and contact your distributor or dealer.

SOME POSSIBLE FAILURES

The device does not turn on:
- Check the power cable connection.
- Check the connections to the wall socket.
- Check the power switch connections.
- Check the fuse.

No sound is emitted:
- Check the connections to all your devices.
- Check the condition of the cables.
- Check that the the selected output format is compatible with the cable link and with the receiver device.

Warranty

Métronome Technologie guarantees the components of your Kalista® Mantax for 2 years from the date of purchase.

In the event of product failure, Métronome Technologie will repair, readjust and, if necessary, replace the equipment provided that all the clauses of the warranty are respected.

In order to initiate service of any kind, it is necessary to obtain authorization from the distributor or dealer before shipping the defective unit.

Please note that any of the following conditions will avoid the warranty:

- Use not in accordance with this manual.
- Abuse, accident or unauthorised modifications to the unit.
- Removal of serial numbers, defacement or tampering.
- Shipment without the complete original boxes and foams.

Métronome Technologie cannot be held responsible for any accidental damage occuring during the operation, breakdown, troubleshooting or repair of your Mantax.

Technical Specifications

Conversion processors

Reference:
AKM: AK4499EX
ESS: ES9039MPRO

Range:
KM: -124 dB
ESS: -122 dB

Dynamic range:
AKM: S/N 135 dB
ESS: S/N 137 dB

Digital Inputs

(resampling available)

S/PDIF:
PCM 44.1 to 384 kHz / 32 bits
DSD64 to DSD128 DoP

AES/EBU:
PCM 44.1 to 384 kHz / 32 bits
DSD64 to DSD128 DoP

Toslink
PCM 44.1 to 192 kHz / 32 bits
DSD64 DoP

I2S:
PCM 44.1 to 384 kHz / 32 bits
DSD64 to DSD256 Native

Analogue Outputs

RCA:
Impédance 100 Ω, 3 V max (0 dB)

XLR:
Impédance 150 Ω, 3 V max (0 dB)

Display

Size:
3 inches

Resolution:
432 x 432

Touch screen:
Yes

General Specifications

Power consumption:
25 Watts

Standby power consumption:
20 Watts

Operating temperature:
+5°C to +35°C

Operating humidity:
5% to 90%

USB:
1 x Port USB 2.0 (for device update)

Dimensions DAC:
445 x 125 x 420 mm

Dimensions Elektra:
420 x 70 x 430 mm

Weight DAC:
17.3 kg

Weight Elektra:
12,5 kg

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