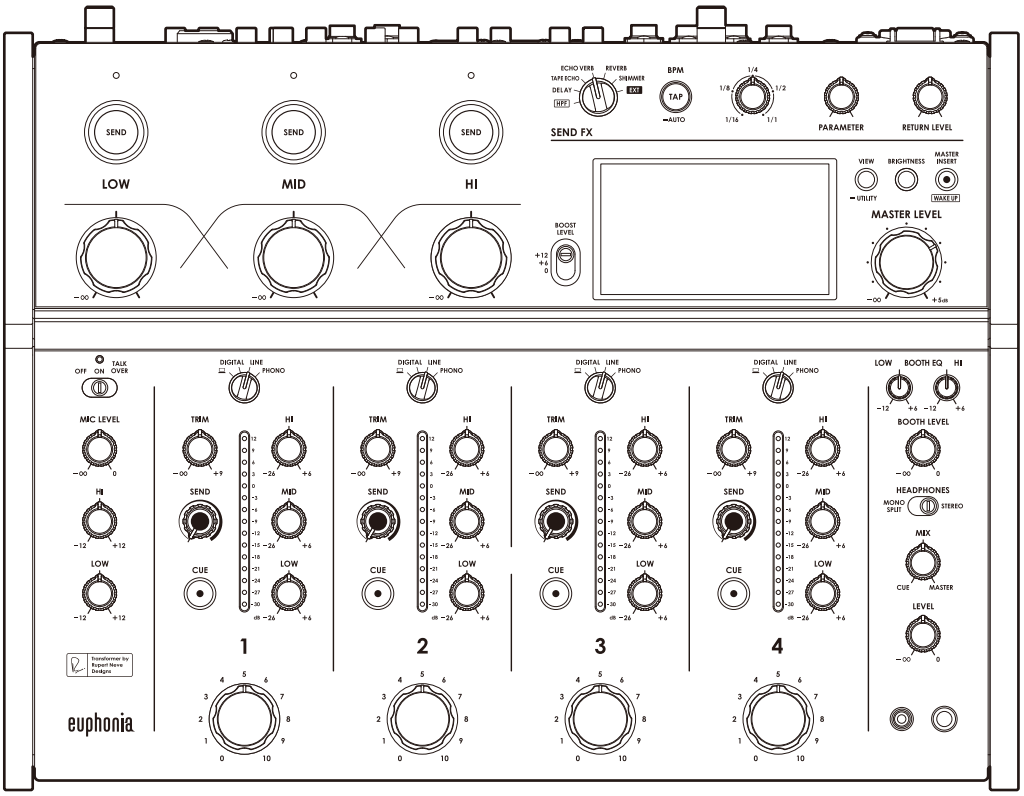
Instruction Manual



DJ Mixer

euphonia

alphatheta.com/support/

rekordbox.com

For FAQ and other support information for this product, visit the websites above.

AlphaTheta

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Before you start

Features

Thank you for choosing this product which is named for euphonia birds, meaning “good sound”.

This 4-channel mixer enables dynamic performances and smooth mixing with the rotary faders. You can intuitively operate the controls on the minimalistic top panel and visually grasp the volume level via the Mix Level Meter.

The unit produces a glossy and rich digital-analog hybrid audio thanks to the digital signal processing we developed, which generates sound that’s faithful to the original source, and the transformer that we co-developed with Rupert Neve Designs.

Enjoy performances that will take you on a new sound journey with the euphonia.

How to read this manual

- Be sure to read this manual, the Quick Start Guide and the Precautions for Use which are also included with the product. These documents include important information that you should understand before using the unit.
- In this manual the names of buttons, knobs, and terminals that appear on the product, and the names of buttons, menus etc. in the software on your PC/Mac or mobile device, are indicated within square brackets ([ ]). (e.g. [**File**], [**CUE**] button)
- Please note that the software screens and their specifications, as well as the external appearance and specifications of the hardware, are subject to change without notice.
- Please note that depending on the operating system version, web browser settings, etc. operation may differ from the ways described in this manual.
- Please note that the language on the screens of the software described in this manual may differ from the language on your screen.

What's in the box

- Power cord
- Warranty (for some regions)*1
- Quick Start Guide
- Precautions for Use

*1 Only products in Europe.
Products in North America and Japan include warranty information in the Precautions for Use.

User guides

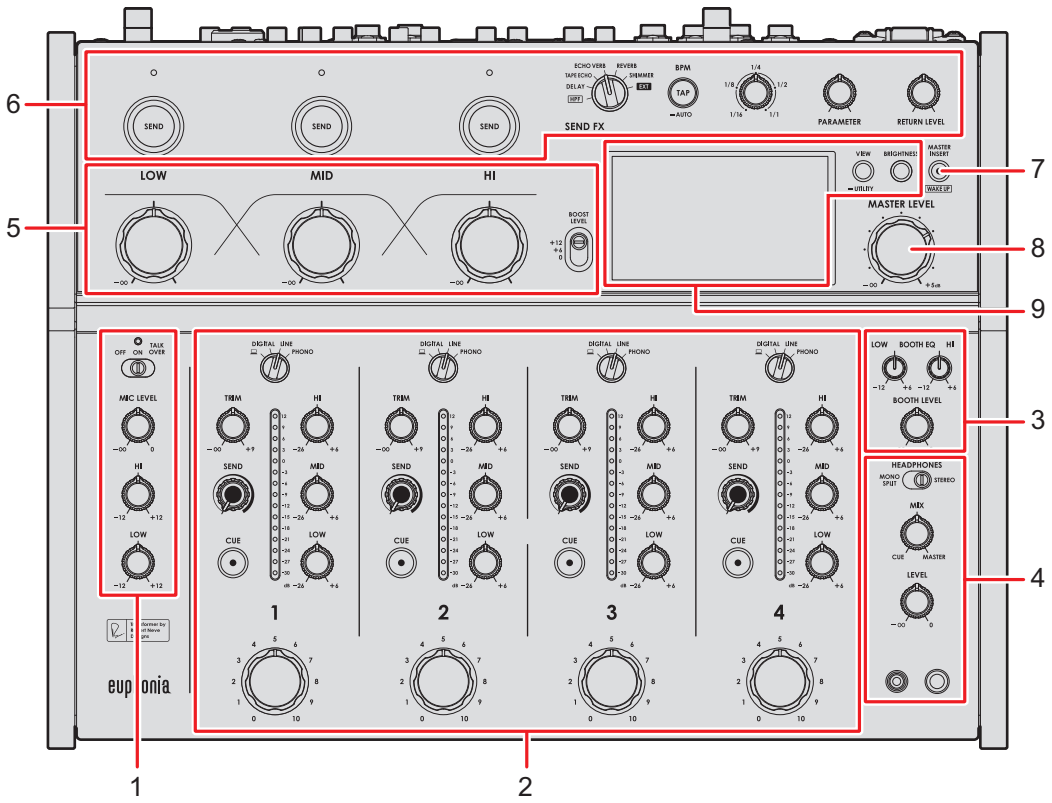
❖ rekordbox Introduction, Instruction Manual

Refer to the rekordbox Introduction to find out how to set up rekordbox, and see the Instruction Manual to find out how to use rekordbox.
Visit the URL below to find these user guides.

rekordbox.com/manual

Part names

Top panel

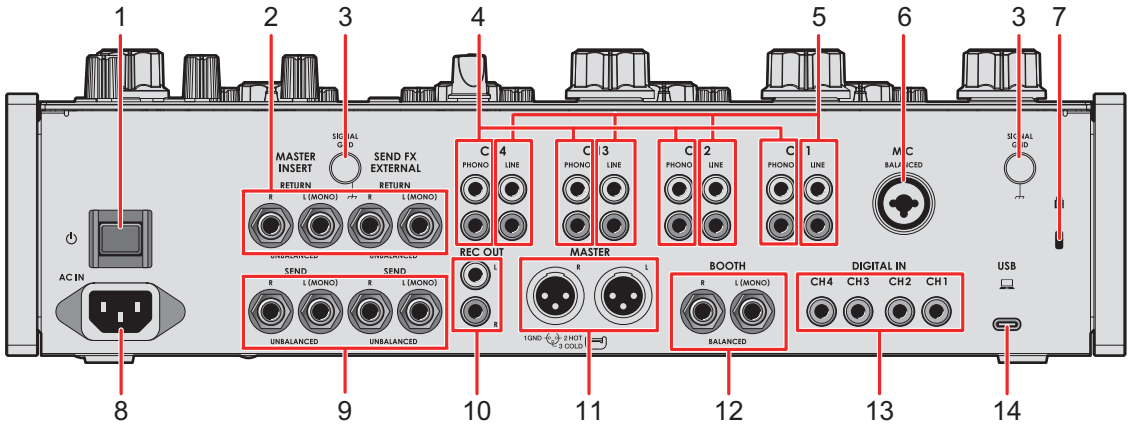


1. **MIC section** (page 36)
2. **Channel section** (page 26)
3. **Booth section** (page 35)
4. **Headphones section** (page 33)
5. **Master Isolator section** (page 31)
6. **SEND FX section** (page 38)
7. **MASTER INSERT/(WAKE UP) button** (page 44)

   Turns Master Insert on and off. The button blinks when it's turned on.

   - Press while in Power Management Off mode to exit Off mode.
8. **MASTER LEVEL knob** (page 26)
9. **Display section** (page 10)

Rear panel



1. **⏻ button**

   Turns the unit on and off.

2. **MASTER INSERT/SEND FX EXTERNAL RETURN terminals (1/4”/6.35 mm, TS)** (page 24)

   Connect to output terminals on external effects units.

   - If you connect a device to the [**L (MONO)**] terminal only, the sound input to the [**L (MONO)**] terminal is also input to the [**R**] channel.

3. **SIGNAL GND terminal** (page 21)

   Connect a turntable’s ground wire.

   Reduces unwanted noises that occur when a turntable is connected to the unit.

4. **PHONO terminals (RCA)** (page 21)

   Connect phono-level (MM cartridge) output devices.

   - Do not input line-level signals to the terminals.
   - Remove the short-circuit pin plugs from the terminals when connecting devices. When you aren’t using the terminals, attach the short-circuit pin plugs to cut out external noises.

> **⚠ WARNING**
> Keep the short-circuit pin plugs out of the reach of children and infants. If a part is accidentally swallowed, contact a doctor immediately.

5. **LINE terminals (RCA)** (page 21)

   Connect multi players or line-level output devices.

6. **MIC terminal (XLR or 1/4”/6.35 mm, TRS)** (page 21)
7. **Kensington security slot**

   Connect a cable lock.
8. **AC IN** (page 21)

   Connect to a power outlet with the supplied power cord.
9. **MASTER INSERT/SEND FX EXTERNAL SEND terminals (1/4”/6.35 mm, TS)** (page 24)

   Connect to input terminals on external effects units.

   - If you connect a device to the [**L (MONO)**] terminal only, mono sound is output.
10. **REC OUT terminals (RCA)** (page 22)

    Connect a device for recording. You can use them as output terminals for a power amplifier, etc.
11. **MASTER terminals (balanced XLR)** (page 22)

    Connect to analog input terminals on a power amplifier, etc.

    - Use the terminals for balanced output only.
    - Do not connect a power cord from another product to the terminals.
    - Do not connect to a terminal that can supply phantom power.
12. **BOOTH terminals (1/4”/6.35 mm, TRS)** (page 22)

    Connect a booth monitor.

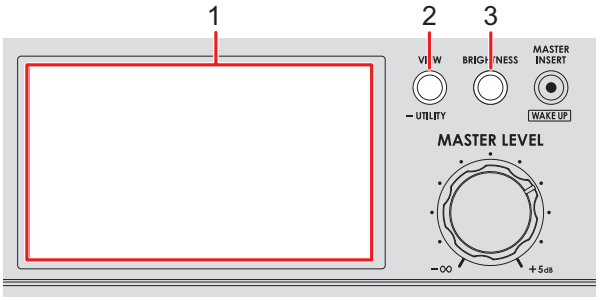
    - Use the terminals for balanced output only.
    - If you connect equipment to the [**L (MONO)**] terminal only, mono sound is output.
13. **DIGITAL IN terminals (RCA)** (page 21)

    Connect to a digital coaxial output terminal on a multi player, etc.

    - Sound may break when the signal’s sampling frequency changes.
14. **USB port** (page 22)

    Connect a PC/Mac.

Display section



1. **Screen** (page 10)
2. **VIEW/UTILITY button**
   Switches the display types.
3. **BRIGHTNESS button**
   Sets the brightness of the screen.

Main display

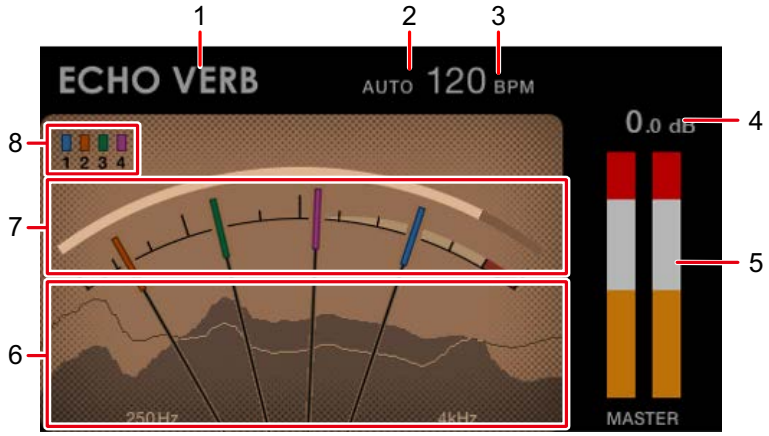
The screen shows the status of the sound being played.
Press the [**VIEW/UTILITY**] button to switch between Needle View and Digital View.

— Needle View: Shows the status of sound with the Mix Level Meter with meter needles, and Spectrum Analyzer.

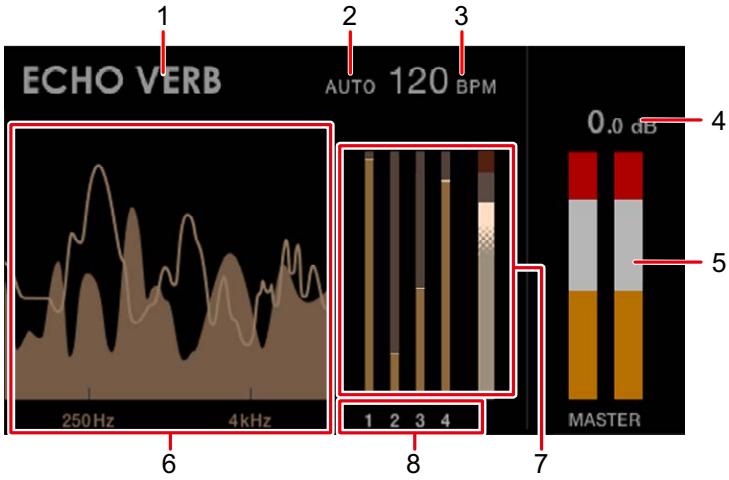
— Digital View: Shows the status of sound with the Mix Level Meter in columns chart, and Spectrum Analyzer.

• Needle View is displayed when the unit is turned on.

Needle View:



Digital View:



1. **Effect name**

   Displays the selected effect.

2. **AUTO/TAP**

   Displays [**AUTO**] when in automatic BPM measuring mode, and [**TAP**] when in manual BPM input mode.

   - The BPM value blinks when it can't be measured correctly in the [**AUTO**] setting. Use the [**TAP**] mode if this happens.

3. **BPM value**

   Displays the current BPM.

4. **Peak level**

   Displays the peak level of the master sound output to the [**MASTER**] or [**REC OUT**] terminals. [**CLIP**] is displayed when excessive volume is output.

5. **Peak level meter**

   Displays the peak level in a meter for the master sound output to the [**MASTER**] or [**REC OUT**] terminals.

6. **Spectrum Analyzer**

   Shows the frequency spectrum for the master sound (doesn't reflect the setting of the [**MASTER LEVEL**] knob) and mix sound (doesn't reflect the setting of the Master Isolator) as follows.

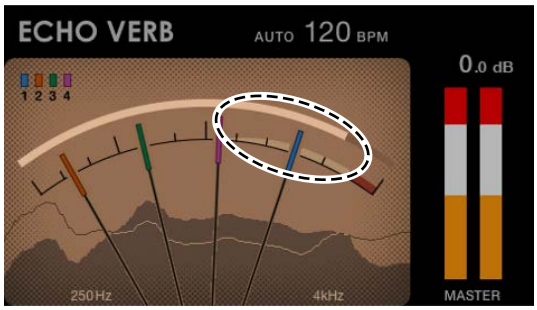
   — Master sound: Shown by a spectrum with filled area

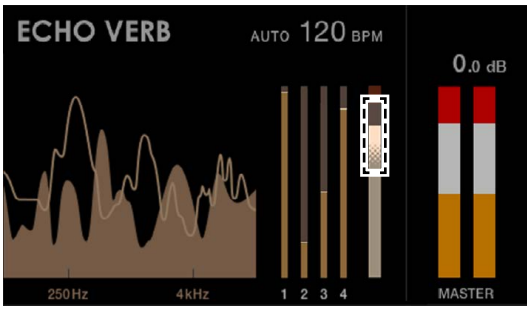
   — Mix sound: Shown by a spectrum with a line

7. **Mix Level Meter**

   Shows the volume of each channel (sound adjusted with the channel rotary fader) and the master sound (doesn't reflect the setting of the [**MASTER LEVEL**] knob). You can compare the relative volume of each sound.

   - Depending on the sound being played, the volume of the master sound may be shown as lower than the volume of the channel sound.
   - You can add a moderate amount of saturation to the master sound by adjusting the volume of the master sound so it's in the white range shown below.





8. **Channel numbers**

   The numbers indicate the channels assigned to the Mix Level Meters.

   - In the Needle View, the colors assigned to the numbers correspond to the colors on the needles.
   - In the Digital View, the channel number assigned to each Mix Level Meter is shown below the meter.

PC/Mac setup

To input or output your PC/Mac's audio to/from the unit, install the dedicated audio driver software and/or Setting Utility on your computer.
If you install the dedicated software to your PC (Windows), the Setting Utility and audio driver software will be installed.
If you use a Mac, only the Setting Utility will be installed.

- For information on the latest system requirements, compatibility, and supported operating systems, visit the URL below.

  alphatheta.com/support/
- Operation isn't guaranteed on all PC/Mac models, even if the system requirements are met.
- Operation isn't guaranteed when multiple units are connected to a PC/Mac.
- If a PC (Windows) without the dedicated audio driver software installed is connected to the unit, errors may occur on the PC.
- Malfunctions may occur due to incompatibility with other software installed on a PC/Mac.

Installation

❖ Notes on installation

- Turn the unit off and disconnect the USB cable connected to the unit and the PC/Mac before installation.
- Close all applications running on the PC/Mac before installation.
- You'll need admin rights to install the dedicated software on your PC/Mac.
- Read the Software License Agreement terms carefully before installation.
- If you quit the installation halfway through, perform the installation procedure again from the beginning.
- After the installation is complete, connect the PC/Mac to the unit.
- Operation isn't guaranteed on all PC/Mac models.

Downloading the dedicated software

1 Visit the URL below.

alphatheta.com/support/

2 Click [Software & firmware updates].

3 Click [EUPHONIA] under [DJ MIXER].

4 Click [Drivers].

5 Click [Download link] and save the file.

- Download the software dedicated to your PC/Mac.

Installing the dedicated software

1 Unzip the downloaded dedicated software.

2 Double-click the installation file.

- Double-click “euphonia_#.###.exe” if you’re using a PC (Windows), or “euphonia_M_#.#.#.dmg”→“euphoniaSettingUtility.pkg” if you’re using a Mac (# indicates the version number of the software).

3 Read the Software License Agreement terms carefully. If you agree to the terms, mark the [Agree] check box and click [OK].

- If you don’t agree to the Software License Agreement terms, click [**Disagree**] (for Mac)/[**Cancel**] (for Windows) to cancel the installation.

4 Follow the on-screen instructions to complete the installation.

Setting Utility

Once you've installed the dedicated software on your PC/Mac, you can use the Setting Utility to check and set connections between the unit and a PC/Mac.

Launching Setting Utility

❖ For Mac

1 Open the [Applications] folder in Finder.

2 Click [AlphaTheta] → [euphonia] → [euphonia Setting Utility].

❖ For PC (Windows 11)

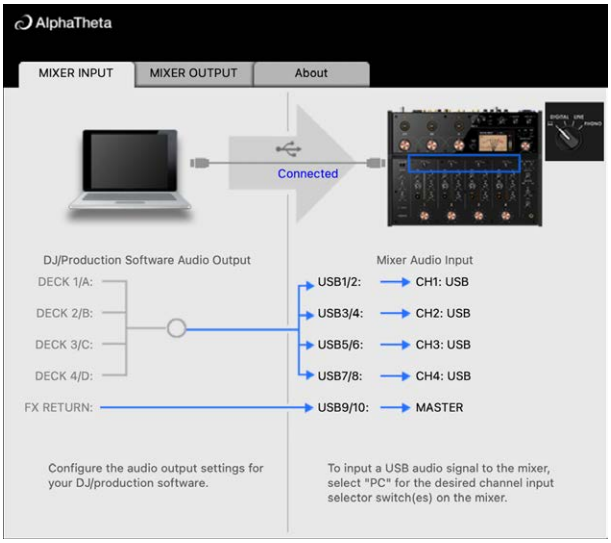
1 Open the Start menu and click [All Apps] → [AlphaTheta] → [euphonia Setting Utility].

❖ For PC (Windows 10)

1 Open the Start menu and click [AlphaTheta] → [euphonia Setting Utility].

Checking the status of the input selector switches on the unit

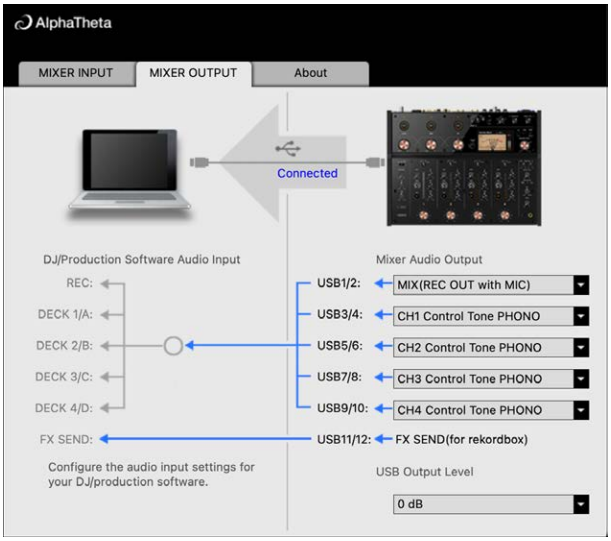
1 Click the [MIXER INPUT] tab.



Setting the audio data output from the unit to a PC/Mac

1 Click the [MIXER OUTPUT] tab.

2 Click the pull-down lists under [Mixer Audio Output] and set the audio data to output from the unit to the PC/Mac.



➲ Read more: Mixer Audio Output pull-down list (page 20)

3 Click the pull-down list under [USB Output Level] and select a level of volume to output from the unit.

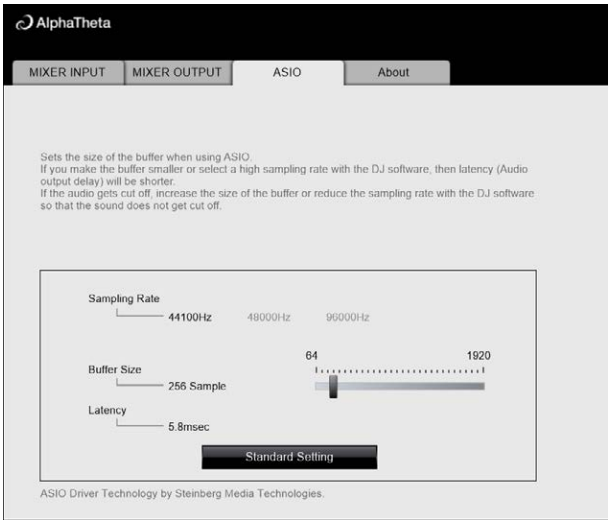
- Set the volume in [**USB Output Level**] when you can't produce as much volume as you expect using the volume adjustment in your DJ application. Note that the sound may be distorted if you set the volume too high.

Adjusting the buffer size (for Windows ASIO)

- Close any running applications (DJ applications, etc.) which use the unit as the default audio device before adjusting the buffer size.

1 Click the [ASIO] tab.

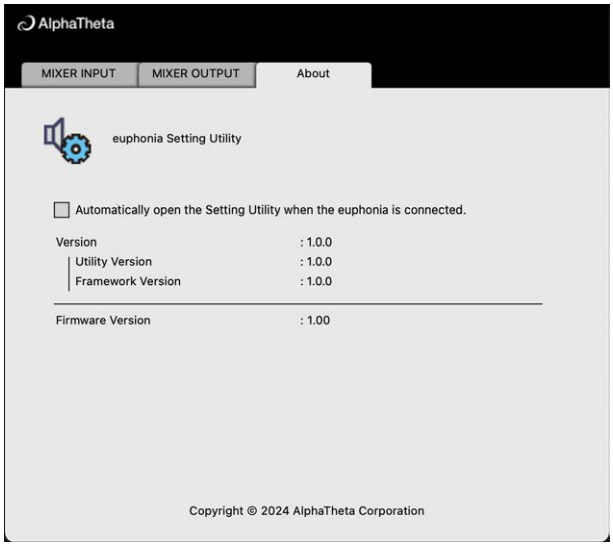
2 Adjust the buffer size with the slider.



- Breaks in sound are less likely to occur if you set a large buffer size, but this increases lag time due to the latency of audio data transmission.

Checking the firmware and dedicated software versions

1 Click the [About] tab.



Mixer Audio Output pull-down list

- USB 11/12 is fixed to [**FX SEND (for rekordbox)**] (available for software applications that support the function).

#: indicates channel number

USB 1/2	USB 3/4, USB 5/6, USB 7/8, USB 9/10
MIX(REC OUT with MIC) [1]	**CH# Control Tone PHONO** [2]
Pre CH1 Fader	**CH# Control Tone LINE** [2]
Pre CH2 Fader	**CH# Control Tone DIGITAL** [2]
Pre CH3 Fader	**Pre CH# Fader**
Pre CH4 Fader	**Post CH# Fader**
Post CH1 Fader	**MIC**
Post CH2 Fader	**MIX(REC OUT with MIC)** [1]
Post CH3 Fader	**MIX(REC OUT without MIC)** [1]
Post CH4 Fader	-
MIC	-
MIX(REC OUT without MIC) [1]	-

[1] For uses other than recording, be sure to set the DJ application so that no sound loop occurs. Sound may be input or output at an unintended volume level when a sound loop occurs.

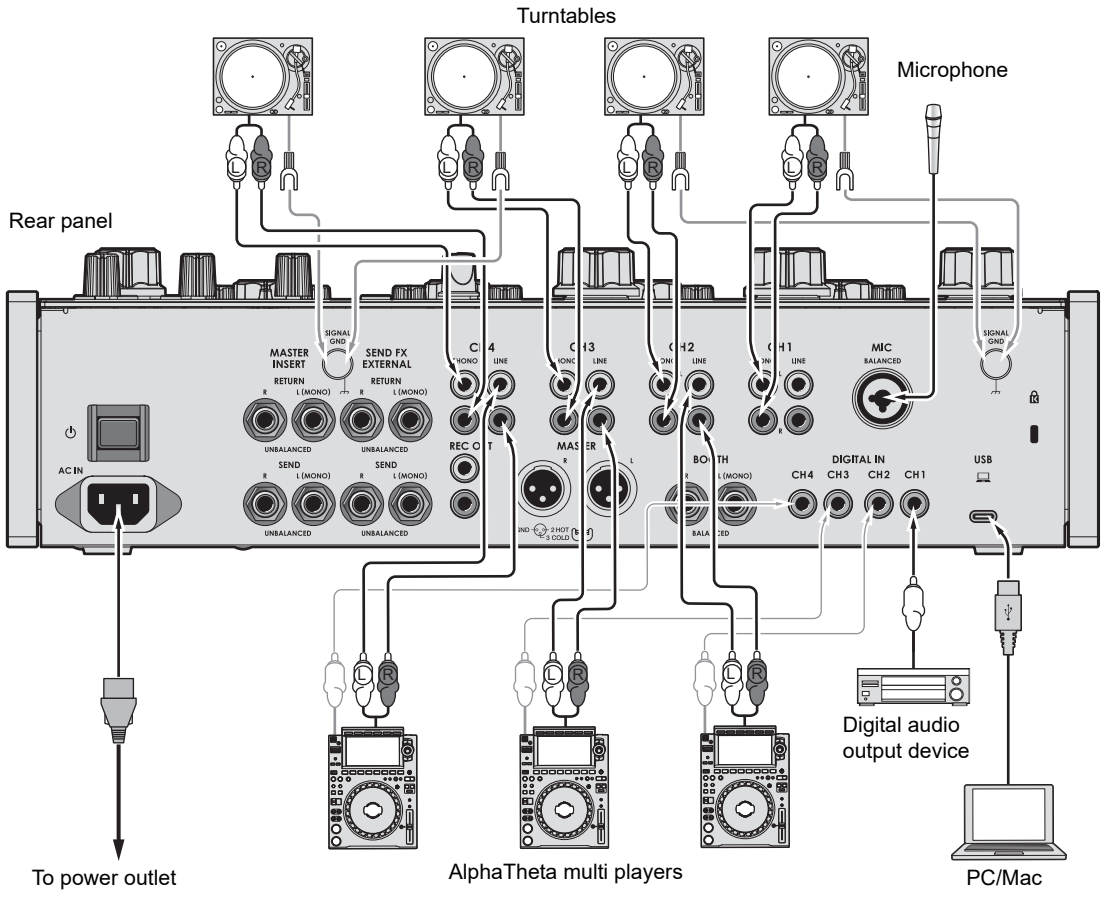
[2] Available for software applications that support the function. Outputs sound at the volume input to the unit regardless of the [**USB Output Level**] setting.

Connections

Turn the unit off and disconnect the power cord before connecting other units.
Connect the power cord after all the connections are complete.

- Use the supplied power cord.
- Read the instruction manuals for the devices you're going to connect with the unit.

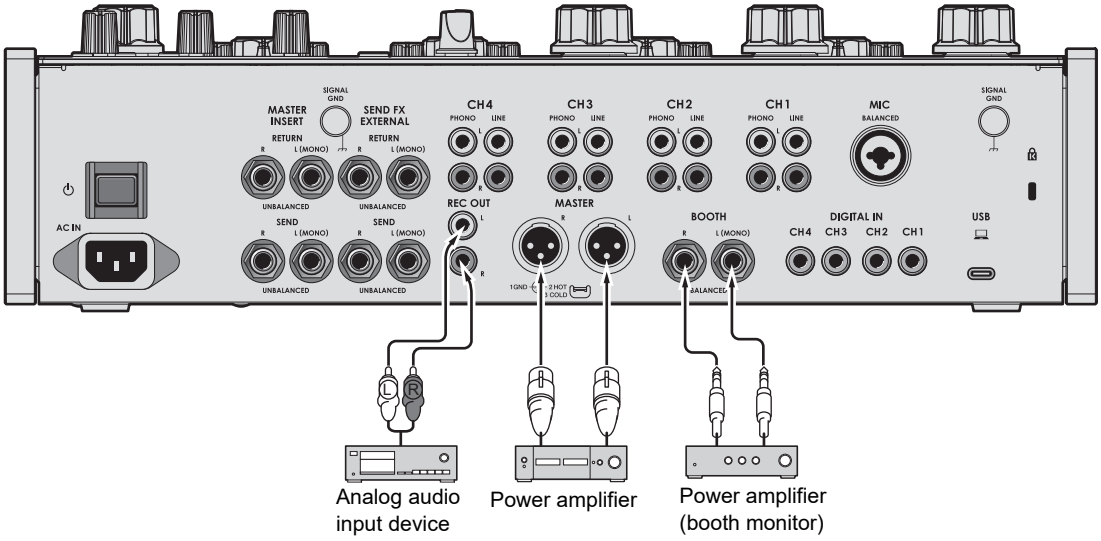
Connecting to the input terminals



- It's recommended to connect this unit and a PC/Mac directly with a USB cable. When using a USB hub, use a product recommended by the manufacturer of your PC/Mac. We don't guarantee the operation of all USB hubs.
- To input or output your PC/Mac's audio to/from the unit, install the dedicated audio driver software and/or Setting Utility on your computer (page 13).

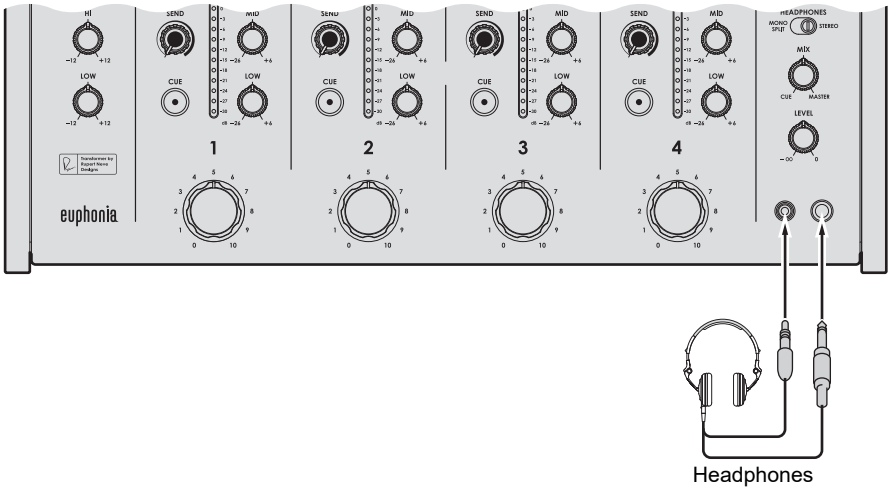
Connecting to the output terminals

Rear panel



- Use the [**MASTER**] terminals for balanced output only. Connecting the terminals to unbalanced inputs (RCA, etc.) with an XLR-RCA conversion cable (conversion adapter), etc. results in unwanted noises and/or poor sound quality.
- Use the [**REC OUT**] terminals for unbalanced output (RCA, etc.).
- Use the [**BOOTH**] terminals for balanced output only. Connecting the terminals to unbalanced inputs results in unwanted noises and/or poor sound quality.
- Do not connect a power cord from another product or a terminal that can supply phantom power to the [**MASTER**] terminals.

Connecting to the terminals on the top panel



- Connect headphones to one of the terminals (jack or mini jack). If you use both terminals at the same time, the volume for headphones may decrease and/or the sound quality may deteriorate.

Connecting external effects units

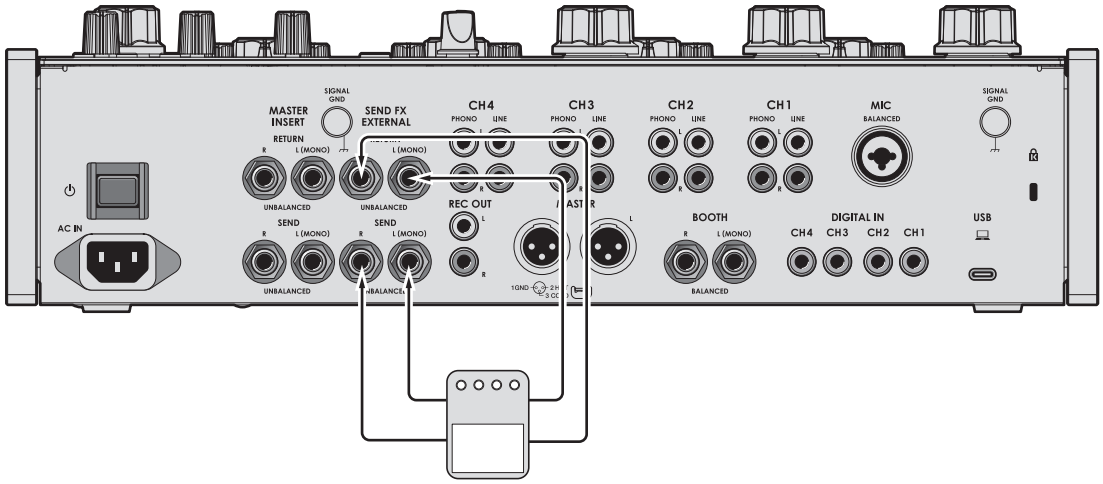
For using SEND FX

To use external effects units with SEND FX, connect as follows.

– [**SEND FX EXTERNAL SEND**] terminals (output) → effects unit → [**SEND FX EXTERNAL RETURN**] terminals (input)

• Use effect units that can output effect sounds only.

Rear panel



Effects unit

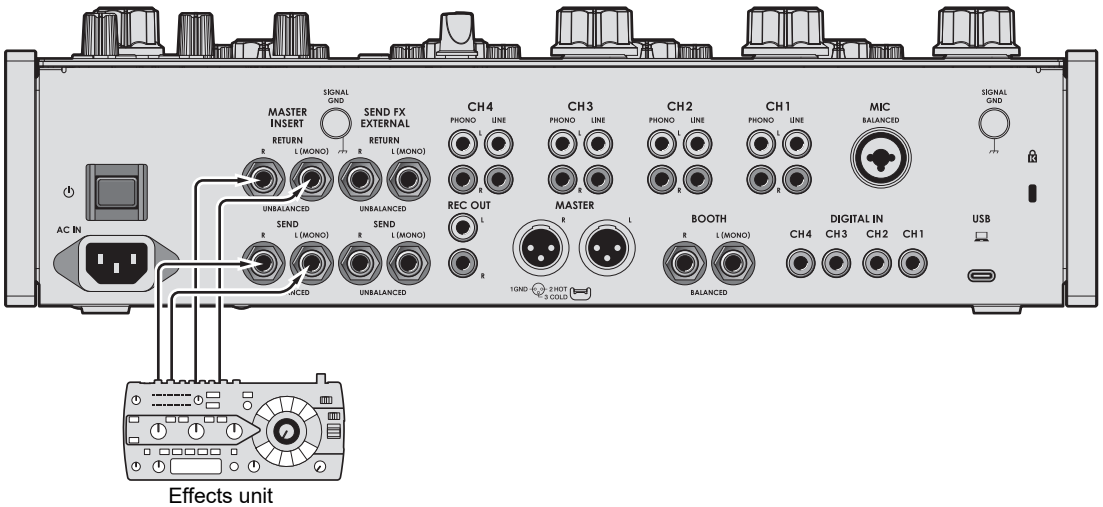
➲ Read more: SEND FX (page 38)

For using Master Insert

To use external effects units with Master Insert, connect as follows.

– [**MASTER INSERT SEND**] terminals (output) → effects unit → [**MASTER INSERT RETURN**] terminals (input)

Rear panel



Effects unit

➲ Read more: Master Insert (page 44)

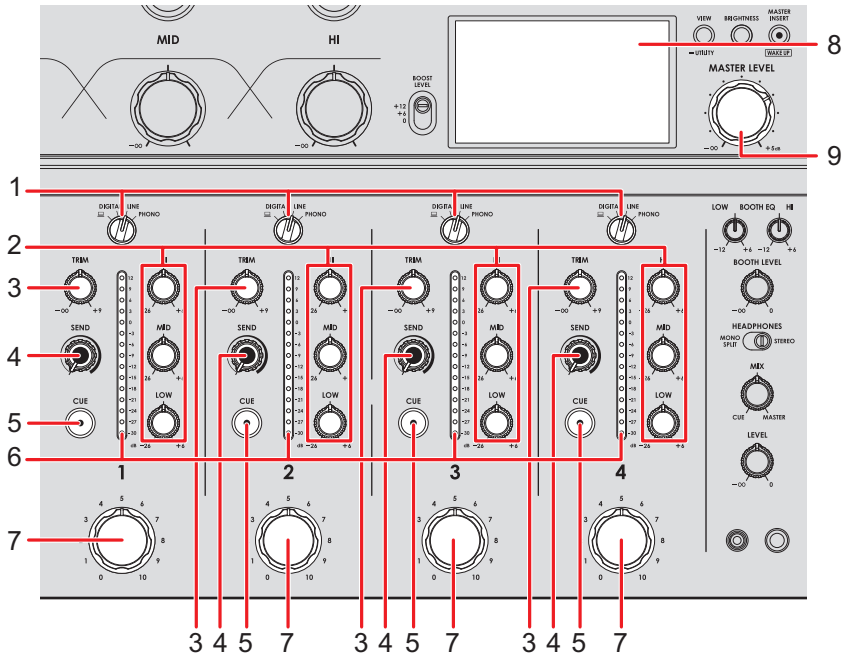
Audio output

Follow the procedures below to output and adjust sound.

- Outputting sound (page 28)
- Adjusting the sound of the channels (page 29)
- Adjusting the left/right sound balance (page 29)

➲ To output sound to the [**BOOTH**] terminals, see Using a booth monitor (page 35).

Channel section/master section



❖ Channel section

1. **Input selector switch**

   Selects an input sound source.

   — **[💻]**: Selects a PC/Mac connected to the [**USB**] port.

   — **[DIGITAL]**: Selects a multi player, etc. connected to the [**DIGITAL IN**] terminal.

   — **[LINE]**: Selects a multi player, etc. connected to the [**LINE**] terminals.

- **[PHONO]**: Selects a turntable connected to the [**PHONO**] terminals.

2. **EQ (HI, MID, LOW) knobs**
   Adjusts the volume of each frequency band.
   Each knob adjusts in the following range.
   - **[HI]**: -26 dB to +6 dB
   - **[MID]**: -26 dB to +6 dB
   - **[LOW]**: -26 dB to +6 dB
3. **TRIM knob**
   Adjusts the volume for the channel input sound.
4. **SEND knob** (page 38)
5. **CUE button** (page 34)
6. **Channel level indicator**
   Displays the volume level before the sound passes through the channel rotary fader.
7. **Channel rotary fader**
   Adjusts the volume for the channel output sound. Turing it clockwise increases the volume, and counterclockwise decreases the volume.

❖ Master section

8. **Screen** (page 10)
   Displays the volume of the master sound on the right side of the screen.
9. **MASTER LEVEL knob**
   Adjusts the volume for the master sound.

Outputting sound

Adjusting the channel input volume

1 Turn the input selector switch to select an input sound source.

2 Turn the [TRIM] knob to adjust the volume for the input sound.

The channel level indicator lights up when sound is input to the channel.

Adjusting the channel output volume

1 Turn the channel rotary fader to adjust the volume for the output sound.

Adjusting the master sound volume

1 Turn the [MASTER LEVEL] knob to adjust the volume for the master sound.

The peak level display changes when the master sound is output.

➲ Read more: Master Isolator (page 31).

Adjusting the sound of the channels

1 Turn the [EQ (HI, MID, LOW)] knobs to adjust the volume of each frequency band.

Adjusting the left/right sound balance

You can adjust the left/right balance for sounds output from the following terminals.

– [**MASTER**]
– [**REC OUT**]
– [**BOOTH**]
– [**USB**]
– PHONES

- You can adjust the left/right balance for sound output from the USB port only when [**MIX(REC OUT with MIC)**] or [**MIX(REC OUT without MIC)**] is selected for [**Mixer Audio Output**] in the Settings Utility (page 17).

1 Press and hold the [VIEW/UTILITY] button.

The [**UTILITY**] screen appears.

➲ Read more: Settings (page 46).

2 Select [BALANCE] and press the [MASTER INSERT/(WAKE UP)] button.

The [**BALANCE**] screen appears.

3 Press the [VIEW/UTILITY] or [BRIGHTNESS] button to adjust the left/right balance.

- Only the left channel sound of stereo audio is output when set to the [**L**] (leftmost) position, and only the right channel sound is output when set to the [**R**] (rightmost) position.

4 Press the [MASTER INSERT/(WAKE UP)] button.

- To cancel the setting, press the [**TAP**] button.

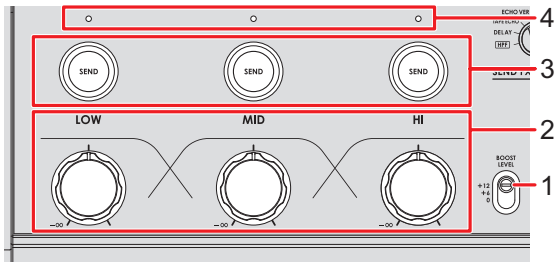
5 Press the [TAP] button.

The [**UTILITY**] screen closes.

Master Isolator

You can adjust the master sound.

Master Isolator section



1. **BOOST LEVEL switch**

   Sets the maximum volume that can be adjusted with the Master Isolator.

   - +12: Can be adjusted up to +12 dB.
   - +6: Can be adjusted up to +6 dB.
   - 0: Can be adjusted up to 0 dB.

2. **LOW, MID, HI knobs**

   Adjusts the volume of each frequency band.

   Each knob adjusts in the following range.

   - **[LOW]**: -∞ dB to the maximum level set with the [**BOOST LEVEL**] switch.
   - **[MID]**: -∞ dB to the maximum level set with the [**BOOST LEVEL**] switch.
   - **[HI]**: -∞ dB to the maximum level set with the [**BOOST LEVEL**] switch.

3. **LOW, MID, HI SEND buttons**

   Selects the frequency band of the master sound to apply an effect to.

4. **LOW, MID, HI SEND indicators**

   Lights up when an effect is applied to that frequency band.

➲ Read more: Routing effect sounds to the master output (page 40)

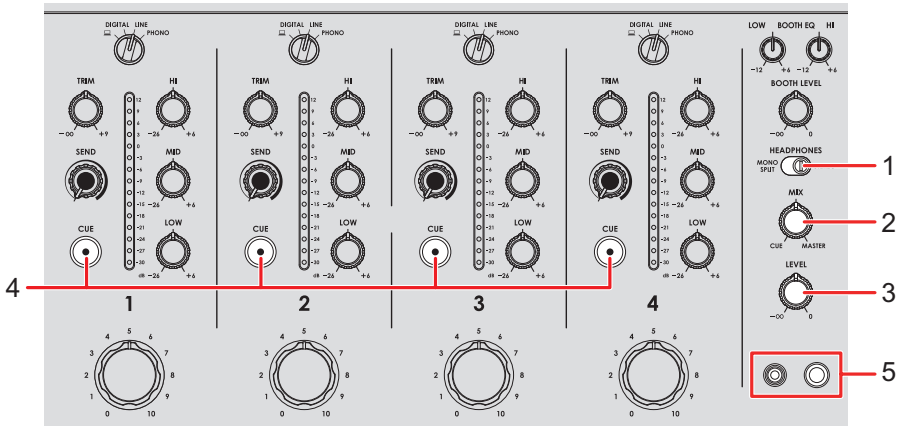
Adjusting the master sound

1 **Set the [BOOST LEVEL] switch to select the maximum volume that can be adjusted with the Master Isolator**

2 **Turn the [LOW, MID, HI] knobs to adjust the volume of each frequency band.**

Monitoring sound

Headphones section



1. **MONO SPLIT/STEREO switch**

   Sets the sound output method (MONO SPLIT or stereo) for the headphones.

   — **[MONO SPLIT]**: Outputs the sound of the channel with the [**CUE**] button pressed to the left channel of your headphones, and the master sound to the right channel.

   — **[STEREO]**: Outputs the stereo sound of the channel with the [**CUE**] button pressed and the master sound according to the [**MIX**] knob setting.

2. **MIX knob**

   Adjusts the volume balance between the channel with the [**CUE**] button pressed and the master sound.

3. **LEVEL knob**

   Adjusts the volume for the headphones monitor sound.

4. **CUE button**

   Outputs sound to the PHONES terminals.

5. **PHONES terminals**

   Connect headphones.

Monitoring with headphones

1 **Connect headphones to one of the PHONES terminals.**

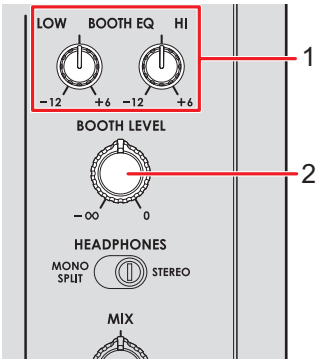
2 **Press a [CUE] button to select the channel you want to monitor.**

3 **Set the [MONO SPLIT/STEREO] switch to select the output sound (MONO SPLIT or stereo).**

4 **Turn the [MIX] knob to adjust the volume balance between the channel with the [CUE] button pressed and the master sound.**

5 **Turn the [LEVEL] knob to adjust the volume.**

Booth section



1. **BOOTH EQ (LOW, HI) knobs**

   Adjusts the volume of each frequency band.

   Each knob adjusts in the following range.

   - **[LOW]**: -12 dB to +6 dB
   - **[HI]**: -12 dB to +6 dB

2. **BOOTH LEVEL knob**

   Adjusts the volume for the sound output to a booth monitor.

Using a booth monitor

1 Connect a booth monitor to the [BOOTH] terminals.

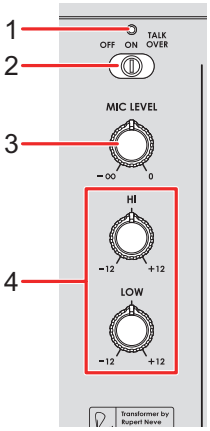
➲ Read more: Connecting to the output terminals (page 22)

2 Turn the [BOOTH LEVEL] knob to adjust the volume for the output sound.

3 Turn the [BOOTH EQ (LOW, HI)] knobs to adjust the sound.

Microphone

MIC section



1. **MIC indicator**

   Indicates the microphone sound output as follows.

   - Off: The microphone is off.
   - Lights up: The microphone is on.
   - Blinks: The microphone talkover is on.

2. **OFF, ON, TALKOVER selector switch**

   Sets the microphone sound output.

   - **[OFF]**: Turns the microphone off.
   - **[ON]**: Turns the microphone on.
   - **[TALKOVER]**: Turns microphone talkover on. When sound is input to the microphone, the volume other than the microphone channel is lowered.

3. **MIC LEVEL knob**

   Adjusts the volume of sound input from the [**MIC**] terminal.

4. **EQ (HI, LOW) knobs**

   Adjusts the volume of sound input from the [**MIC**] terminal.

   Each knob adjusts in the following range.

   - **[HI]**: -12 dB to +12 dB
   - **[LOW]**: -12 dB to +12 dB

Using a microphone

1 Connect a microphone to the [MIC] terminal.

➲ Read more: Connecting to the input terminals (page 21)

2 Slide the [OFF, ON, TALKOVER] selector switch to set the microphone sound output.

3 Turn the [MIC LEVEL] knob to adjust the microphone volume level.

- Note that turning the knob too far clockwise outputs the sound at a high volume.

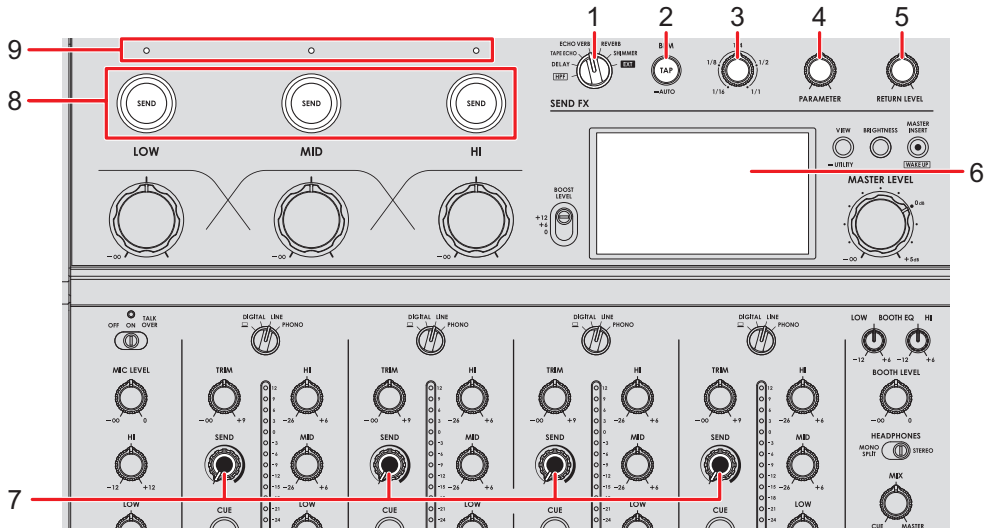
4 Turn the [EQ (HI, LOW)] knobs to adjust the volume of each frequency band.

5 Speak into the microphone.

SEND FX

You can add the sound of the built-in effects or an external effects unit to the master sound.

SEND FX section



1. **SEND FX selector switch** (page 42)
2. **TAP button**

   Selects the BPM measuring method (AUTO/TAP). The selected method is displayed on the screen.

   — AUTO: Press and hold the button to turn on Auto BPM mode.
   Automatically measures BPM of the input sound (measuring range: 70 to 180).

   — TAP: Tap the button to manually set a BPM (page 41).

   • It's automatically set to [**AUTO**] when the unit is turned on.
3. **TIME knob** (page 42)
4. **PARAMETER knob** (page 42)
5. **RETURN LEVEL knob** (page 42)
6. **Screen** (page 10)
7. **SEND knob** (page 42)

8. **SEND (LOW, MID, HI) buttons**
   Select the frequency band ([**LOW**], [**MID**], [**HI**]) of the master sound to apply SEND FX to. The selected button lights up.
   - The buttons don't light up when [**HPF**] is selected with the SEND FX selector switch.
   - Press the lit [**SEND**] button to turn SEND off.
9. **SEND (LOW, MID, HI) indicators**
   Lights up when the frequency band ([**LOW**], [**MID**], [**HI**]) of the master sound is sent.
   - The frequency bands of the master sound are sent only when all the following conditions are met.
     — The [**SEND**] button is lit.
     — The corresponding [**LOW**], [**MID**], [**HI**] knobs for Master Isolator are set to the right of the center position.

➲ Connection when using an external effects unit: Connecting external effects units (page 24)

Applying High-Pass Filter (HPF) to the channel sound

HPF is applied to each channel when [**HPF**] is selected with the SEND FX selector switch.

➲ Read more: SEND FX types and settings (page 42)

1 Turn the SEND FX selector switch to select [HPF].

2 Turn a [SEND] knob to adjust the cut-off frequency.

- Turning all the way counterclockwise outputs the original sound.

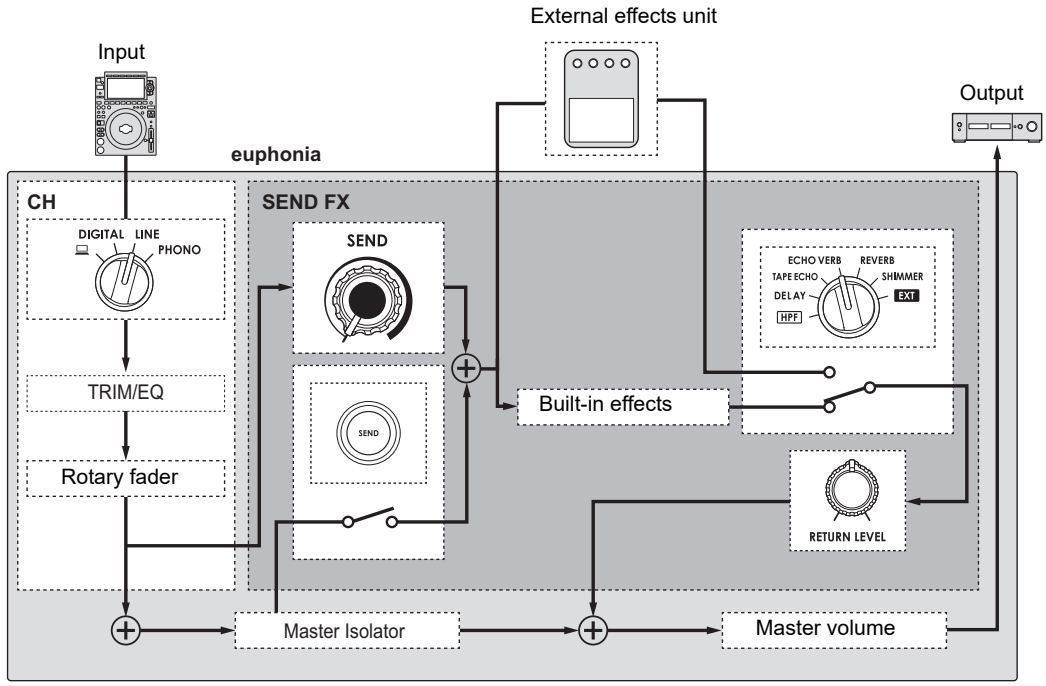
3 Turn the [PARAMETER] knob to adjust the resonance.

- The following buttons and knobs are disabled when [**HPF**] is selected with the SEND FX selector switch.
  – [**SEND (LOW, MID, HI)**] buttons
  – TIME knob
  – [**RETURN LEVEL**] knob

Routing effect sounds to the master output

You can route the sound of one of the built-in effects or an external effects unit to the master output.

Effects can be applied from the channel sound or master sound.



➲ Read more: SEND FX types and settings (page 42)

1 Turn the SEND FX selector switch to select an effect.

・ If you're using an external effects unit, skip to step 5.

2 Press the [TAP] button to select a BPM measuring mode.

3 Turn the TIME knob to adjust the time parameter for the effect.

4 Turn the [PARAMETER] knob to adjust the quantitative parameter for the effect.

5 Turn the [RETURN LEVEL] knob to adjust the effect volume.

6 Adjust the SEND level as follows.

— Channel sound: Turn the [**SEND**] knob.
— Master sound: Press the [**SEND**] button and turn the [**LOW**], [**MID**], [**HI**] knobs for Master Isolator to the right from the center position.

Setting the BPM manually

1 Tap the [TAP] button more than twice in time with the beat of the music.

BPM is set according to the average time between taps.

- BPM can be set between 40 and 300.

SEND FX types and settings

You can adjust the following settings with the knobs.

- The selected effect is displayed on the screen.
- Built-in effects and external effects can’t be selected at the same time.

Effect/operation	Description
Built-in effects	
HPF [1]	Applies High-Pass Filter to the channel sound.
• **SEND**:	Cut-off frequency for filter
• **PARAMETER**:	Resonance
DELAY	Adds clear delay sound.
• **SEND**:	SEND level
• **TIME** [2]:	Delay time with respect to 1 beat of the BPM (beat fraction): 1/16 to 1 beat
• **PARAMETER**:	Feedback
TAPE ECHO	Adds delay sound with fluctuation and saturation.
• **SEND**:	SEND level
• **TIME** [2]:	Delay time with respect to 1 beat of the BPM (beat fraction): 1/16 to 1 beat
• **PARAMETER**:	Feedback

Effect/operation	Description
ECHO VERB	Adds clear delay sound and reverberation.
• **SEND**:	SEND level
• **TIME** [2]:	Delay time and reverberation with respect to 1 beat of the BPM (beat fraction): 1/16 to 1 beat
• **PARAMETER**:	Balance between delay sound and reverberation
REVERB	Adds reverberation.
• **SEND**:	SEND level
• **TIME**:	Reverberation time
• **PARAMETER**:	Tone
SHIMMER	Adds a sparkling reverberation.
• **SEND**:	SEND level
• **TIME**:	Reverberation time
• **PARAMETER**:	Sparkling effect
External effects	
EXT [3]	Adds an effect sound from an external effects unit that's connected to the [**SEND FX EXTERNAL SEND**] and [**SEND FX EXTERNAL RETURN**] terminals.
• **SEND**:	SEND level

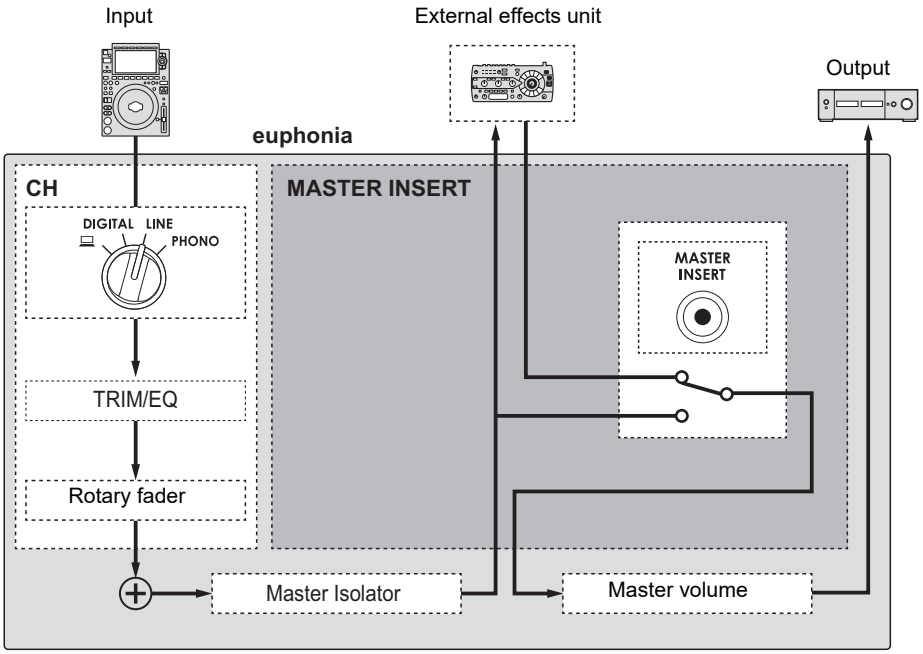
[1] The TIME and [**RETURN LEVEL**] knobs are disabled. The effect can't be applied to the master sound.

[2] If you adjust it to the beat fraction printed around the knob, you'll feel a click.

[3] The TIME and [**PARAMETER**] knobs are disabled.

Master Insert

You can switch the effect sounds of an external effects unit and the master sound.



➲ Read more: Connecting external effects units (page 24).

Using Master Insert

1 Connect an external effects unit to the [MASTER INSERT SEND] and [MASTER INSERT RETURN] terminals.

2 Press the [MASTER INSERT/(WAKE UP)] button to turn Master Insert on.

- Press the [**MASTER INSERT/(WAKE UP)**] button again to turn Master Insert off.
- Master Insert is turned off when an external effects unit isn't connected to the unit.
- You can't turn Master Insert on and off when the [**UTILITY**] screen is displayed (page 48).
- Check the output volume in the connected external effects unit before turning Master Insert on or off.

USB/MIDI

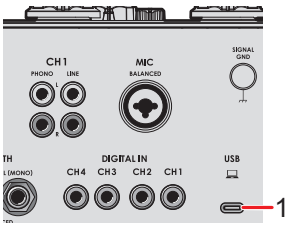
If you have a PC/Mac with MIDI software installed and connect it to the unit via a USB cable, you can control DJ software via the unit.

- For details on the unit's MIDI messages, visit the URL below.

  alphatheta.com/support/

- MIDI timing clock is always sent.

USB/MIDI section



1. **(USB) port** (page 21)
   - To input or output your PC/Mac's audio to/from the unit, install the dedicated software on your computer (page 13). If the dedicated software isn't installed on the PC/Mac, a message is displayed on the screen of the unit.

Controlling MIDI software

- Install MIDI software and configure the audio and MIDI settings on your PC/Mac beforehand.

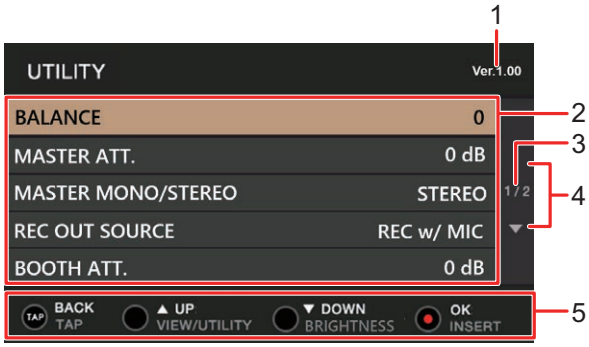
1 Connect your PC/Mac to the unit.

2 Launch the MIDI software.

Settings

You can change the unit's settings in the Utility settings.

UTILITY screen



1. **Firmware version**
2. **Setting items** (page 48)
3. **Page number**

   Indicates the current page number/total number of pages.
4. ▲/▼

   Press the [**VIEW/UTILITY**] or [**BRIGHTNESS**] button to display the next or previous page.
5. **Operation buttons display for the screen**

Changing the settings

1 Press and hold the [VIEW/UTILITY] button.

The [**UTILITY**] screen appears.

2 Press the [VIEW/UTILITY] or [BRIGHTNESS] button to select a setting item, and press the [MASTER INSERT/(WAKE UP)] button.

➲ Read more: Utility settings (page 48)

3 Change the setting.

- To cancel the setting, press the [**TAP**] button.

4 Press the [TAP] button.

The [**UTILITY**] screen closes.

Utility settings

*: Factory setting

Setting item	Description
BALANCE	Sets the output balance. • Setting values: **L128** to **0*** to **R127**
MASTER ATT.	Sets the attenuation level for the master sound output from the [**MASTER**] and [**REC OUT**] terminals. • Setting values: **-12dB**, **-9dB**, **-6dB**, **-3dB**, **0dB***
MASTER MONO/STEREO	Sets the output method (mono/stereo) for the master sound output from the [**MASTER**] and [**REC OUT**] terminals. • Setting values: **MONO**, **STEREO***
REC OUT SOURCE	Sets the sound output from the [**REC OUT**] terminals. • Setting values: **REC w/ MIC***, **REC w/o MIC**, **MASTER** • [**REC w/ MIC**] outputs the master sound and microphone sound which haven't been adjusted with the [**MASTER LEVEL**] knob. • [**REC w/o MIC**] outputs the master sound before it's affected by the [**MASTER LEVEL**] knob. • [**MASTER**] outputs the same sound output from the [**MASTER**] terminals**.**
BOOTH ATT.	Sets the attenuation level for the sound output from the [**BOOTH**] terminals. • Setting values: **-12dB**, **-9dB**, **-6dB**, **-3dB**, **0dB***
BOOTH MONO/STEREO	Sets the output method (mono/stereo) for the sound output from the [**BOOTH**] terminals. • Setting values: **MONO**, **STEREO***

Setting item	Description
BOOTH MUTE WHEN MIC ON	Sets whether to mute the sound output from the [**BOOTH**] terminals when the microphone is turned on. • Setting values: **OFF***, **ON**
MIC TO BOOTH ATT.	Sets the volume for the microphone sound that's input to the sound output from the [**BOOTH**] terminals. • Setting values: **-∞**, **-18dB**, **-15dB**, **-12dB**, **-9dB**, **-6dB**, **-3dB**, **0dB***
POWER MANAGEMENT	Sets the Power Management function (page 49). • Setting values: **OFF**, **ON***

Power Management

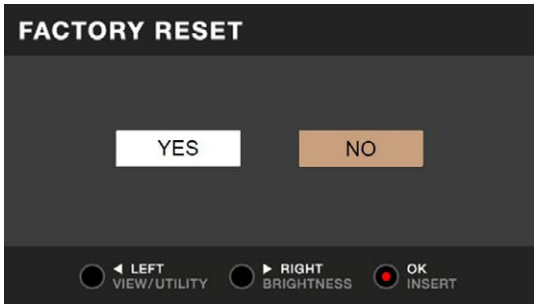
When [**POWER MANAGEMENT**] is set to [**ON**], the unit automatically enters Off mode after 20 minutes of inactivity if no audio signal is input to the unit. The [**MASTER INSERT/(WAKE UP)**] button lights up in Off mode.
Press the [**MASTER INSERT/(WAKE UP)**] button to exit Off mode.

- The factory setting is [**ON**].
- Set [**POWER MANAGEMENT**] to [**OFF**] if you don't need to use the Power Management function.
- Power consumption may increase when [**POWER MANAGEMENT**] is set to [**OFF**].

Restoring the factory settings

1 While pressing the [MASTER INSERT/(WAKE UP)] button, press the [⏻] button.

The [**FACTORY RESET**] screen appears.



2 Press the [VIEW/UTILITY] or [BRIGHTNESS] button to select [YES], and press the [MASTER INSERT/(WAKE UP)] button.

3 Press the [⏻] button to turn the unit off.

The factory settings are restored.

Specifications

General

Power requirements ..... AC 110 V – 240 V, 50 Hz/60 Hz
Power consumption ..... 43 W
Power consumption (off) ..... 0.2 W
Main unit weight ..... 9.5 kg/20.94 lbs.
Max. external dimensions
..... (W × D × H) 429.2 × 331.0 × 119.9 mm/16.90" × 13.03" × 4.72"
Tolerable operating temperature ..... +5 °C – +35 °C (+41 °F – +95 °F)
Tolerable operating humidity ..... 5 % – 85 % (no condensation)

Audio section

Sampling rate ..... 96 kHz
MASTER, BOOTH, SEND (MASTER INSERT) D/A converter 32bit
CH input A/D converter 32bit
Other A/D and D/A converters 24bit
Frequency characteristic
LINE ..... 20 Hz – 40 kHz
S/N ratio (rated output, A-WEIGHTED)
USB, DIGITAL IN ..... 107 dB
PHONO ..... 88 dB
LINE ..... 105 dB
MIC ..... 79 dB
Standard input level/Input impedance
PHONO ..... -52 dBu/47 kΩ
LINE ..... -12 dBu/47 kΩ
MIC ..... -57 dBu/ 3.5 kΩ
RETURN ..... -12 dBu/47 kΩ
Max. input level
PHONO ..... -17.8 dBu
LINE ..... +15 dBu
MIC ..... +2 dBu
RETURN ..... +12 dBu
Standard output level/Load impedance/Output impedance
MASTER ..... +6 dBu/10 kΩ/360 Ω
REC OUT ..... -8 dBu/10 kΩ/700 Ω

BOOTH ..... +6 dBu/10 kΩ/360 Ω
SEND (EXTERNAL) ..... -9 dBu/10 kΩ/700 Ω
SEND (MASTER INSERT) ..... -12 dBu/10 kΩ/700 Ω
PHONES ..... +8 dBu/32 Ω/1 Ω or lower

Rated output level/Load impedance
MASTER ..... +25 dBu/10 kΩ
BOOTH ..... +25 dBu/10 kΩ

Crosstalk
LINE ..... 82 dB

Channel equalizer characteristic
HI ..... -26 dB – +6 dB (20 kHz)
MID ..... -26 dB – +6 dB (1 kHz)
LOW ..... -26 dB – +6 dB (20 Hz)

Microphone equalizer characteristic
HI ..... -12 dB – +12 dB (10 kHz)
LOW ..... -12 dB – +12 dB (100 Hz)

BOOTH equalizer characteristic
HI ..... -12 dB – +6 dB (10 kHz)
LOW ..... -12 dB – +6 dB (100 Hz)

MASTER ISOLATOR characteristic
Slope ..... 18 dB/oct
Cut/Boost ..... OFF – X dB (X = 0, +6, +12)
Crossover Freq. ..... 250 Hz/3.5 kHz

Input/Output terminals

PHONO input terminal
RCA pin jacks ..... 4 sets

LINE input terminal
RCA pin jacks ..... 4 sets

MIC input terminal
XLR connector & 1/4” TRS jack ..... 1 set

RETURN input terminal
1/4” TS jack ..... 2 sets

DIGITAL IN coaxial input terminal
RCA pin jacks ..... 4 sets

MASTER output terminal
XLR connector ..... 1 set

BOOTH output terminal
1/4” TRS jack ..... 1 set

REC OUT output terminal
- RCA pin jacks ..... 1 set

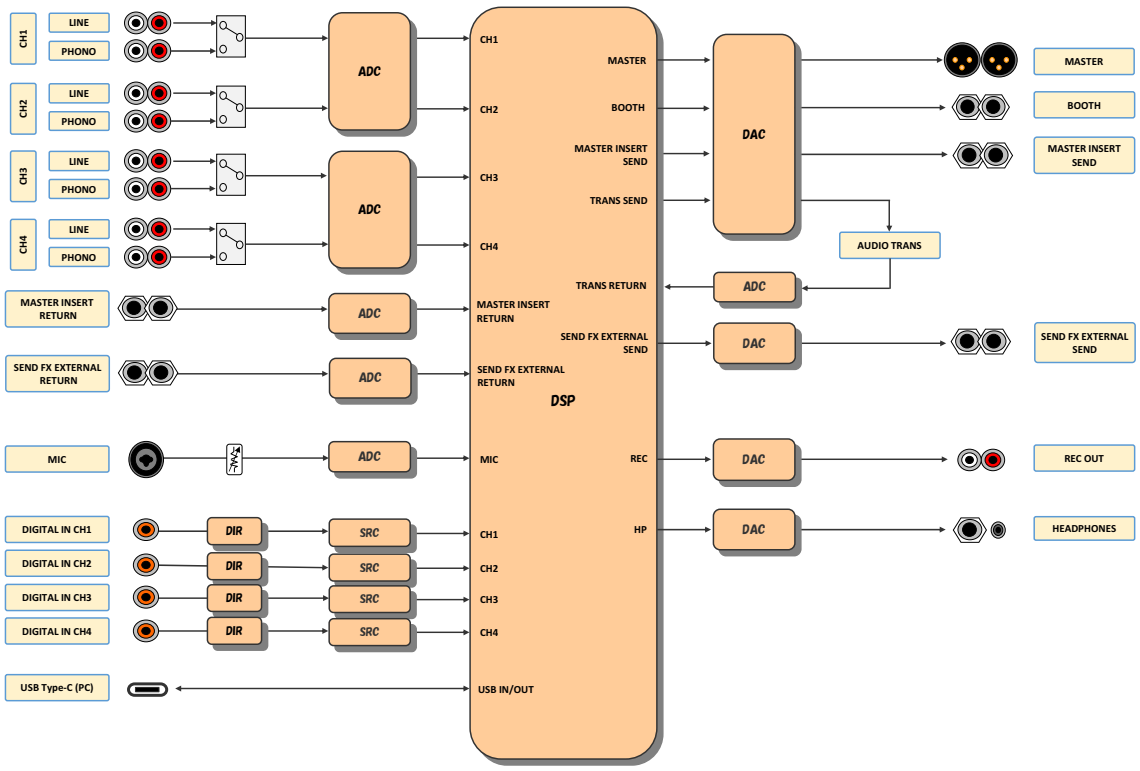
SEND output terminal
- 1/4” TS jack ..... 2 sets

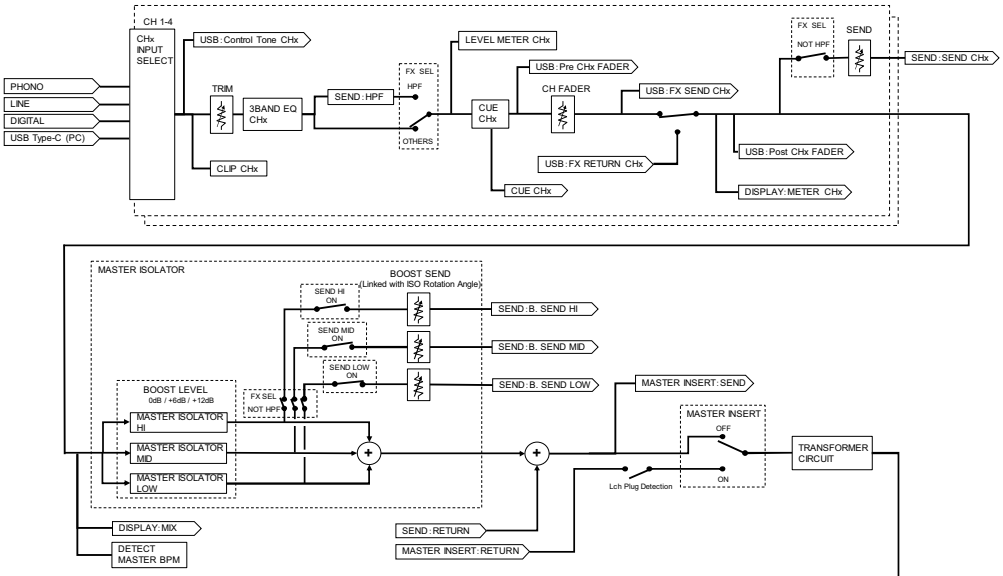
PHONES output terminal
- 1/4” stereo jack ..... 1 set
- 3.5 mm stereo mini jack ..... 1 set

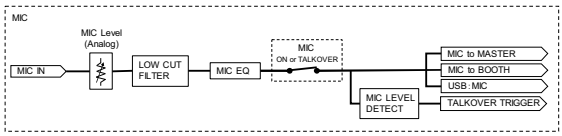
USB terminal
- USB Type-C ..... 1 set

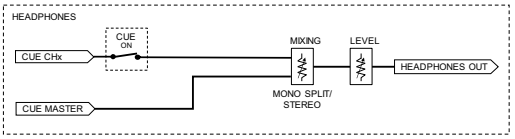
The specifications and design of this product are subject to change without notice.

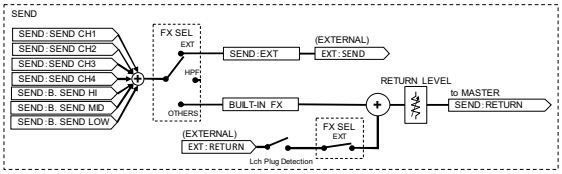
Block diagram

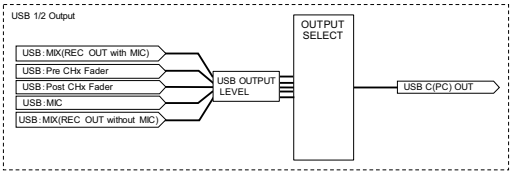


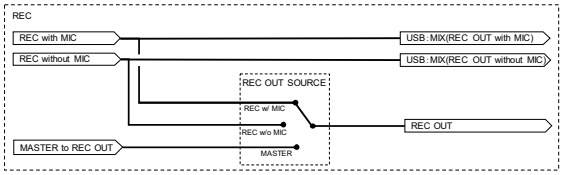

CH 1-4
CHx INPUT SELECT
PHONO
LINE
DIGITAL
USB Type-C (PC)
USB:Control Tone CHx
TRIM
3BAND EQ CHx
CLIP CHx
SEND:HPF
FX SEL
HPF
OTHERS
LEVEL METER CHx
USB:Pre CHx FADER
CH FADER
CUE CHx
USB:FX SEND CHx
USB:FX RETURN CHx
CUE CHx
FX SEL
NOT HPF
SEND
SEND:SEND CHx
USB:Post CHx FADER
DISPLAY:METER CHx
MASTER ISOLATOR
BOOST SEND
(Linked with ISO Rotation Angle)
SEND HI ON
SEND MID ON
SEND LOW ON
SEND:B. SEND HI
SEND:B. SEND MID
SEND:B. SEND LOW
BOOST LEVEL
0dB / +6dB / +12dB
FX SEL
NOT HPF
MASTER ISOLATOR HI
MASTER ISOLATOR MID
MASTER ISOLATOR LOW
MASTER INSERT:SEND
MASTER INSERT
OFF
ON
Lch Plug Detection
TRANSFORMER CIRCUIT
DISPLAY:MIX
DETECT MASTER BPM
SEND:RETURN
MASTER INSERT:RETURN
BOOTH LEVEL
MIC to BOOTH
MIC TO BOOTH ATT.
BOOTH EQ
BOOTH MONO/STEREO
BOOTH ATT.
BOOTH OUT
MUTE WHEN MIC ON
TALKOVER TRIGGER
CUE MASTER
LEVEL METER MASTER
CLIP MASTER
BALANCE
MASTER LEVEL
TALKOVER
MASTER MONO/STEREO
MASTER ATT.
MASTER OUT
DISPLAY:MASTER
MIC to MASTER
REC without MIC
REC with MIC
MASTER to REC OUT

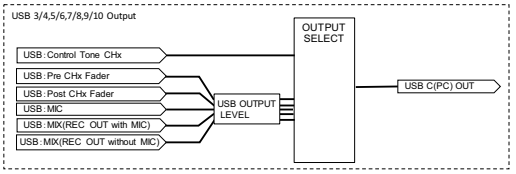

MIC
MIC Level (Analog)
MIC IN
LOW CUT FILTER
MIC EQ
MIC ON or TALKOVER
MIC LEVEL DETECT
MIC to MASTER
MIC to BOOTH
USB:MIC
TALKOVER TRIGGER

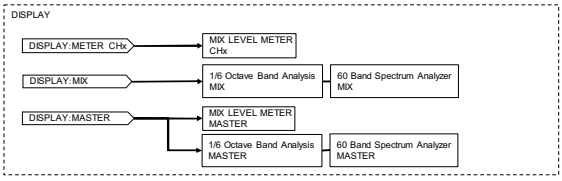

HEADPHONES
CUE CHx
CUE ON
MIXING
LEVEL
HEADPHONES OUT
CUE MASTER
MONO SPLIT/ STEREO

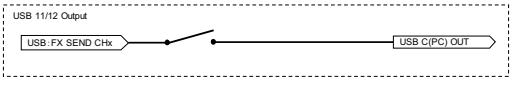

SEND
SEND:SEND CH1
SEND:SEND CH2
SEND:SEND CH3
SEND:SEND CH4
SEND:B. SEND HI
SEND:B. SEND MID
SEND:B. SEND LOW
FX SEL
EXT
HPF
OTHERS
SEND:EXT
(EXTERNAL)
EXT:SEND
BUILT-IN FX
RETURN LEVEL
to MASTER
SEND:RETURN
(EXTERNAL)
EXT:RETURN
FX SEL
EXT
Lch Plug Detection


USB 1/2 Output
USB:MIX(REC OUT with MIC)
USB:Pre CHx Fader
USB:Post CHx Fader
USB:MIC
USB:MIX(REC OUT without MIC)
USB OUTPUT LEVEL
OUTPUT SELECT
USB C(PC) OUT


REC
REC with MIC
REC without MIC
USB:MIX(REC OUT with MIC)
USB:MIX(REC OUT without MIC)
REC OUT SOURCE
REC w/ MIC
REC w/o MIC
MASTER
REC OUT
MASTER to REC OUT


USB 3/4,5/6,7/8,9/10 Output
USB:Control Tone CHx
USB:Pre CHx Fader
USB:Post CHx Fader
USB:MIC
USB:MIX(REC OUT with MIC)
USB:MIX(REC OUT without MIC)
USB OUTPUT LEVEL
OUTPUT SELECT
USB C(PC) OUT


DISPLAY
DISPLAY:METER CHx
MIX LEVEL METER CHx
DISPLAY:MIX
1/6 Octave Band Analysis MIX
60 Band Spectrum Analyzer MIX
DISPLAY:MASTER
MIX LEVEL METER MASTER
1/6 Octave Band Analysis MASTER
60 Band Spectrum Analyzer MASTER


USB 11/12 Output
USB:FX SEND CHx
USB C(PC) OUT

Additional information

Troubleshooting

If you think something is wrong with the unit, check the information below and refer to the [**FAQ**] for the EUPHONIA at the URL below.

alphatheta.com/support/

- Inspect devices connected with the unit.
- The unit may restore proper operation after you turn it off and on.

If the problems continue, read the Precautions for Use and consult an authorized service company or your dealer.

Power

❖ The unit doesn’t turn on.

- Check if the power cord is connected properly.
- Press the [⏻] button on the rear of the unit to turn it on.

Audio output

❖ The unit doesn’t output sound or the volume is low.

- Check if the input selector switch is set properly.
- Check all cables are connected properly.
- Wipe any dust or dirt off the terminals and plugs before connecting them.
- Change the [**MASTER ATT.**] setting in the Utility settings.

❖ Sound is distorted.

For the master sound:

- Adjust the [**MASTER LEVEL**] knob so the screen shows the peak level around [**0.0 dB**].
- Set [**MASTER ATT.**] to a setting between [**-3dB**] and [**-12dB**] in the Utility settings.

For the channel input sound:

- Adjust the [**TRIM**] knob so [**+12**] dB of the channel level indicator doesn’t light up.

Effects

❖ SEND FX doesn’t work.

- Check if the [**SEND**] knob is set properly.
- Make sure any external effects unit is connected to the [**SEND FX EXTERNAL SEND**] and [**SEND FX EXTERNAL RETURN**] terminals properly.
- Make sure the SEND FX selector switch isn’t set to [**HPF**] before using the [**SEND**] button.

❖ SEND FX isn’t input to the master sound.

- Check if the [**RETURN LEVEL**] knob is set properly.

❖ There’s no clicking feeling when using the TIME knob.

- You won’t get a clicking feeling if the SEND FX selector switch isn’t set to [**DELAY**], [**TAPE ECHO**], or [**ECHO VERB**].

❖ Master Insert doesn’t work.

- Make sure any external effects unit is connected to the [**MASTER INSERT SEND**] and [**MASTER INSERT RETURN**] terminals properly.
- Make sure the volume for the external effects unit is set properly.
- Check if the [**MASTER INSERT/(WAKE UP)**] button blinks.

❖ Sound from an external effects unit is distorted.

- Make sure the volume for the external effects unit is set properly.

❖ The tempo (BPM) of a track can’t be measured or the measured tempo is wrong.

- Adjust the [**TRIM**] knob so [**+12**] dB of the channel level indicator doesn’t light up.
- To measure the BPM automatically, make sure sound is being output from the master.
- Tempo (BPM) can’t be measured for some tracks. Use the [**TAP**] button to manually set the tempo for those tracks.

❖ The measured tempo (BPM) differs from the value shown in the track’s information.

- The values don’t match when BPM measuring methods are different.

Connections

❖ [No dedicated audio driver and/or Setting Utility installed.] is displayed when the unit is connected to a PC/Mac.

- Install the dedicated software on the PC/Mac. If the software is already installed, reinstall it.

❖ Sound from a connected PC/Mac isn't outputting from the unit.

- Make sure the PC/Mac is connected properly.
- We recommend you connect this unit and a PC/Mac directly with a USB cable.
- When using a USB hub, use a product recommended by the manufacturer of your PC/Mac.
- We don't guarantee the operation of all USB hubs.
- Select this unit in the audio output device settings in the computer's software. For details, refer to the instruction manual for the software.
- Set the input selector switch to [💻].

❖ Sound is distorted when a turntable is connected to the [PHONO] terminals on the unit or the status of the channel level indicator doesn't change when turning the [TRIM] knob.

- Check if the connected turntable has a built-in phono equalizer (if it does, connect the turntable to the [**LINE**] terminals).
- If the turntable has a PHONO/LINE selector switch, set it to PHONO.
- If the audio interface for PC/Mac, which is connected between the unit and the turntable, is a line-level device, connect the interface to the [**LINE**] terminals.

LCD display

- Small black or shining points may appear on the LCD display. This is a phenomenon inherent to LCD displays and not a malfunction.
- When using the unit in cold places, the LCD display may be dark for a while after the power is turned on. Normal brightness will restore after a while.
- When the LCD display is exposed to direct sunlight, the light will reflect off it, making it difficult to see. Block the direct sunlight to improve visibility of the display.

Cleaning

Wipe with a dry soft cloth.

- Do not use organic solvents, acids, or alkalis for cleaning.

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Developed by:

LLVM Team

University of Illinois at Urbana-Champaign

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