Introduction

Thank you very much for purchasing a ZOOM UAC-8 USB 3.0 Audio Converter.
The UAC-8 has the following features.

18-in/20-out USB3.0 Audio Converter

The UAC-8 is an audio converter with a SuperSpeed USB3.0 interface.
In addition to supporting Windows and Mac, using class compliant mode it can also be connected to an iPad. Since it also supports recording and playback at up to 24-bit/192kHz, it can also be used for the playback of high-resolution sound sources delivered with superior audio quality over the Internet.

Attention to audio performance

An asynchronous transfer system that is not impacted by computer jitter is used. The latest AD/DA converter, which supports 192 kHz, is used. So, the entire system reproduces the original audio faithfully.

Built-in high-performance mic preamps

The high-performance mic preamps are based on those developed for our H Series. Hi-Z input is supported. The gain can be raised by up to 60 dB, and +48V phantom power can be supplied.

Flexible built-in mixer and dedicated UAC-8 MixEfx mixer application

The UAC-8 has a built-in mixer that allows you to freely route up to 20 output channels from among the 18 input channels and 20 computer playback channels. By using the UAC-8 MixEfx application designed for this interface, you can make settings for the built-in mixer and monitoring effects from a computer.
For details about UAC-8 MixEfx, see the ZOOM website (http://www.zoom.co.jp/downloads/).

Please read this manual carefully to fully understand the functions of the UAC-8 so that you can make the most of it for many years. After reading this manual, please keep it with the warranty in a safe place.
Safety Precautions

In this operation manual, symbols are used to highlight warnings and cautions that you must read to prevent accidents. The meanings of these symbols are as follows.

⚠️ **Warning**
Something that could cause serious injury or death

⚠️ **Caution**
Something that could cause injury or damage to the equipment

Other symbols used

⚠️ An action that is mandatory

🚫 An action that is prohibited

⚠️ **Warning**

**Product handling**

⚠️ Do not drop, bump or apply excessive force to the unit.

⚠️ Be careful not to allow foreign objects or liquids to enter the unit.

**Operating environment**

⚠️ Do not use in extremely high or low temperatures.

⚠️ Do not use near heaters, stoves and other heat sources.

⚠️ Do not use in very high humidity or where it could be splashed by water.

⚠️ Do not use in places with frequent vibrations.

⚠️ Do not use in places with much dust or sand.

**Connection cables and input/output jacks**

⚠️ Always turn the power OFF for all equipment before connecting any cables.

⚠️ Always disconnect all connection cables and the AC adapter before moving the unit.

**Volume**

⚠️ Do not use at a loud volume for a long time.

⚠️ **Caution**

**Usage Precautions**

**Interference with other electrical equipment**

In consideration of safety, the UAC-8 has been designed to minimize its emission of electromagnetic waves and to suppress interference from external electromagnetic waves. However, equipment that is very susceptible to interference or that emits powerful electromagnetic waves could result in interference if placed nearby. If this occurs, place the UAC-8 and the other device farther apart.

With any type of electronic device that uses digital control, including the UAC-8, electromagnetic interference could cause malfunction, corrupt or destroy data and result in other unexpected trouble. Always use caution.

**Rack mounting**

If you are unable to mount the UAC-8 in the rack you are using, remove the rubber feet from its bottom panel.

**Cleaning**

Use a soft cloth to clean the exterior of the unit if it becomes dirty. If necessary, use a damp cloth that has been wrung out well to wipe it.

Never use abrasive cleansers, wax or solvents such as alcohol, benzene or paint thinner.

**Temperature considerations**

Continuous use of this interface for long periods of time, for example, might cause it to become warm. This is normal as long as it does not become too hot to touch.

**Breakdown and malfunction**

If the UAC-8 should malfunction or operate abnormally, disconnect it immediately. Contact the store where you bought the unit or ZOOM service with the following information: product model, serial number and specific symptoms of breakdown or malfunction, along with your name, address and telephone number.

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Names of Parts

Front Panel

**INPUT jacks**
These analog signal input jacks have mic preamps. You can connect mics, keyboards and guitars to them. These can be used with both XLR and 1/4-inch (balanced or unbalanced) phone plugs.

**Level indicators**
The LED lights red when the signal clips.

**Input gain knobs**
Use to adjust the input gain of the mic preamp.

**Power indicator**
This lights when the UAC-8 is turned on.

**CLOCK SOURCE indicators**
These show the clock source that is being used: ADAT, S/PDIF, WORD CLOCK or INTERNAL.

**PHONES 1 and 2 volume knobs**
Use these to adjust the headphone volumes of the PHONES 1 and 2 jacks.

**PHONES 1 and 2 jacks**
Connect headphones to these.

**Hi-Z switches**
Use to switch the input impedances of inputs 1 and 2. Turn them on when connecting a guitar or bass guitar.

**PHANTOM switches**
Set these to on to supply phantom power to inputs 1–4 and 5–8.

**MAIN OUTPUT level knob**
Use to adjust the volume of the audio signal output from the MAIN OUTPUT jacks.

**Standalone mode (→ P. 10)**
The UAC-8 will function as an eight-channel mic preamp and digital input/output device in standalone mode if its power is turned on when it is not connected to a computer.

When used in standalone mode, operation is set in advance using the UAC-8 MixEfx mixer application.
### Rear Panel

**POWER switch**
Turns the **UAC-8** ON/OFF.

**DC 12V AC adapter connector**
Connect the included AC adapter here.

**MIDI IN/OUT jacks**
Connect a MIDI keyboard or MIDI controller to the MIDI IN jack. Connected MIDI sound module or other device to the MIDI OUT jack.

**CLASS COMPLIANT MODE switch**
Use to turn Class Compliant Mode ON/OFF. Use when connecting an iPad. (→ P. 11)

**USB 3.0 port**
Connect a computer or iPad here.

**S/PDIF IN/OUT jacks**
Connect coaxial cables that comply with the S/PDIF standard. Two channels of digital audio signals in S/PDIF format can be sent and received at resolutions up to 24-bit/192kHz.

**WORD CLOCK IN/OUT connectors**
Use these to send and receive word clock signals between the **UAC-8** and other devices.

**MAIN OUTPUT jacks**
Connect speakers with built-in amplifiers or an amplifier and speaker system. These support balanced output with 1/4-inch phone plugs.

**LINE OUTPUT jacks**
Connect monitors for multichannel monitoring or external effects. These support balanced output with 1/4-inch phone plugs.

**ADAT OPTICAL IN/OUT jacks**
Connect optical cables that comply with the ADAT Optical standard. These can send and receive digital audio signals in ADAT, SMUX and SMUX4 formats.

### Sampling rates and inputs/outputs

<table>
<thead>
<tr>
<th>Sampling rate</th>
<th>Analog inputs/outputs</th>
<th>S/PDIF inputs/outputs</th>
<th>ADAT inputs/outputs</th>
<th>Total inputs/outputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>44.1 or 48kHz</td>
<td>8/10</td>
<td>2/2</td>
<td>8/8</td>
<td>18/20</td>
</tr>
<tr>
<td>88.2 or 96kHz</td>
<td>8/10</td>
<td>2/2</td>
<td>4/4</td>
<td>14/16</td>
</tr>
<tr>
<td>176.4 or 192kHz</td>
<td>8/10</td>
<td>2/2</td>
<td>2/2</td>
<td>12/14</td>
</tr>
</tbody>
</table>

*Except when in Class Compliant Mode. (→ P. 11)

### NOTE

When shipped new from the factory, the AD/DA converter upsampling function is enabled. This will cause operation with a 4x sampling rate when the sampling rate is 44.1/48 kHz. See the **UAC-8 MixEfx** Reference Guide to disable it.

### Upsampling

When the original sampling rate is 44.1 kHz or 48 kHz, internal processing can allow operation at 176.4 kHz or 192 kHz (enabled when shipped new from the factory). This eliminates aliasing noise from the sound during A/D conversion and makes the sound with D/A conversion even clearer than before.
Basic Connections

Computer
DAT deck
Synthesizer
Bass guitar
Drum set
Guitar amp
Monitor speakers
Headphones
Mic preamp that supports ADAT optical connection
Master clock generator

Computer
DAT deck
Mic preamp that supports ADAT optical connection
Monitor speakers
Monitor speakers
Monitor speakers
Headphones
Installing the Driver


   **NOTE**
   - You can download the latest "ZOOM UAC-8 Driver" from the above website.
   - Download the driver for the operating system that you are using.

2. Launch the installer and install the driver.

   Follow the instructions that appear on screen to install the ZOOM UAC-8 Driver.

   **NOTE**
   - See the Installation Guide included in the driver package for detailed installation procedures.
Turning the Power On and Off

Turning the Power On

1. Minimize the volume of output devices connected to the **UAC-8**.

2. Plug the AD-19 adapter designed for this unit into an outlet.

3. Set **OFF**.

   **NOTE**
   Connection to a computer is not possible when the CLASS COMPLIANT MODE switch is set to ON.

4. Use a USB cable to connect the **UAC-8** and the computer.

   **NOTE**
   Although also compatible with USB 2.0, connection using USB 3.0 enables operation with even higher performance.

5. Set **ON**.

   **NOTE**
   If the driver is not installed on the connected computer, the **UAC-8** will not be recognized. (→P.7)
6. Confirm that the power indicator is lit.

NOTE

**UAC-8** startup and connection with the computer takes time, and the power indicator might blink longer sometimes. If it continues to blink even after waiting some time, try turning the power off and on again.

- **Turning the Power Off**
  1. Minimize the volume of devices connected to the **UAC-8**.
  2. Turn off connected amps and monitor speakers, for example.
  3. Set to OFF.
Independent mic preamp function (standalone mode)

1. Minimize the volume of output devices connected to the **UAC-8**.

2. Plug the AD-19 adapter designed for this unit into an outlet.

3. Disconnect the USB cable.

4. Set to ON
   - In standalone mode, the unit operates by itself according to the settings made in **UAC-8 MixEfx**.

5. Confirm that the power indicator is lit.

**NOTE**
- The **UAC-8** detects the USB connection status and switches the mode automatically as follows:
  - When connected to a computer: → The **UAC-8** will function as an audio interface. (→ P.08)
  - When not connected to a computer: → The **UAC-8** will function in standalone mode.

**HINT**
- In standalone mode, the power will automatically turn off after 10 hours. If you want the power to always stay on, set the **UAC-8 MixEfx** power management function to OFF (refer to the software reference guide).
iPad connection (class compliant mode)

1. Minimize the volume of output devices connected to the **UAC-8**.

2. Plug the AD-19 adapter designed for this unit into an outlet.

3. Set [*] to **ON**.

4. Connect the **UAC-8** and the iPad using an Apple iPad Camera Connection Kit or Lightning to USB Camera Adapter.

5. Set [*] to **ON**.

6. Confirm that the power indicator is lit.

**NOTE**
- Connection to an iPad is not possible when the CLASS COMPLIANT MODE switch is set to OFF.
- Turn the power OFF before changing the CLASS COMPLIANT MODE switch setting. If the power is already ON, changing the CLASS COMPLIANT MODE switch will have no effect.

**NOTE**
When in Class Compliant Mode, the 8 ANALOG input and 10 ANALOG output channels are available.
## Setting Input and Output Devices

### 1. Select the **UAC-8** as the computer sound device.

**NOTE**
- See the Installation Guide included in the driver package for procedures to set the sound device in different operating systems.

### 2. Select the **UAC-8** as the audio input and output device in the DAW software.

The **UAC-8** inputs correspond to the ports as follows.

**NOTE**
- You can use **UAC-8 MixEfx** to route output signals to output jacks freely.
- For details, see the **UAC-8 MixEfx** Reference Guide.

**HINT**
- See the owner’s manual for the DAW software that you are using for instructions about how to set the input and output devices.

### Input device

<table>
<thead>
<tr>
<th>Device name</th>
<th>Port name</th>
<th>Corresponding input</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOOM UAC-8</td>
<td>1</td>
<td>INPUT1</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>INPUT2</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>INPUT3</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>INPUT4</td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>INPUT5</td>
</tr>
<tr>
<td></td>
<td>6</td>
<td>INPUT6</td>
</tr>
<tr>
<td></td>
<td>7</td>
<td>INPUT7</td>
</tr>
<tr>
<td></td>
<td>8</td>
<td>INPUT8</td>
</tr>
<tr>
<td></td>
<td>9</td>
<td>S/PDIF L</td>
</tr>
<tr>
<td></td>
<td>10</td>
<td>S/PDIF R</td>
</tr>
<tr>
<td></td>
<td>11</td>
<td>ADAT1</td>
</tr>
<tr>
<td></td>
<td>12</td>
<td>ADAT2</td>
</tr>
<tr>
<td></td>
<td>13</td>
<td>ADAT3</td>
</tr>
<tr>
<td></td>
<td>14</td>
<td>ADAT4</td>
</tr>
<tr>
<td></td>
<td>15</td>
<td>ADAT5</td>
</tr>
<tr>
<td></td>
<td>16</td>
<td>ADAT6</td>
</tr>
<tr>
<td></td>
<td>17</td>
<td>ADAT7</td>
</tr>
<tr>
<td></td>
<td>18</td>
<td>ADAT8</td>
</tr>
</tbody>
</table>

Settings must be made in DAW software to use the **UAC-8** with it for recording and playback.
Adjusting Headphone and Speaker Volume

Adjusting Headphone Volume

1. Connect headphones to PHONES 1 or PHONES 2.

2. Turn the knob for PHONES 1 or PHONES 2 to adjust the headphone volume.

NOTE
- The same signals are output from PHONES 1 as the MAIN OUTPUT jacks.
- For PHONES 2, you can use UAC-8 MixEfx to set the output signal to MAIN OUTPUT or LINE OUTPUT 1/2, 3/4, 5/6 or 7/8. By default, the same signals are output as the MAIN OUTPUT jacks. For details, see the UAC-8 MixEfx Reference Guide.

Adjusting Speaker Volume

1. Connect monitor speakers to the MAIN OUTPUT jacks.

2. Turn the knob to adjust the speaker volume.

NOTE
The OUTPUT volume only affects the MAIN OUTPUT. Use UAC-8 MixEfx to adjust other output volumes. For details, see the UAC-8 MixEfx Reference Guide.
Using Instruments and Mics

■ Connecting Instruments
Connect instruments to INPUTS 1 to 8 using TRS/mono phone cables.

- Keyboard
  (TRS phone cable)
- Guitar
  (mono phone cable)
- Bass guitar

■ Connecting Mics
Using XLR cables, connect mics to INPUTS 1 to 8.

Dynamic mics
Condenser mics

NOTE
Using the Hi-Z function
- When using a passive guitar or bass guitar, connect it to INPUT 1 or 2, and push that input’s button so that it lights.
- When connecting a keyboard or other instrument to INPUT 1 or 2, press its button so that it becomes unlit.

NOTE
Using Phantom Power
- To use a condenser mic, press the switch for the connected INPUT so that it lights. Phantom power is supplied when this switch is lit.
- When the corresponding switch is lit, phantom power is supplied to INPUTS 1–4 or INPUTS 5–8 at the same time.
- To use dynamic mics and condenser mics at the same time, consider the use of phantom power when connecting them to the inputs.
Adjusting the Input Gain
You can adjust the gain of each INPUT.

1. Check \( \text{CLIP} \) \( \text{SIG} \) to see the status of an input signal.
   - Lit green: Input signal present.
   - Lit red: Input signal is clipping.

2. Turn \( \) to adjust the input gain.

HINT
Set it so that the level indicator does not light red.
Using Digital Audio Equipment

■ About Digital Audio Clock
When the **UAC-8** is connected to other digital audio equipment, audio clock must be synchronized in order to transfer audio data between them. If they are not synchronized, noise and various other problems will occur.

To synchronize audio clock, one device must operate as the master, which sets the reference clock, and the other must operate as a slave.

![Diagram of master and slave devices]

The **UAC-8** is operating as the master, and the audio clock of the **UAC-8** and the other digital device are synchronized.

■ Connecting S/PDIF Devices

1. Minimize the volume of output devices connected to the **UAC-8**.

   **HINT**
   When connected, noise might occur until clock synchronizes.

2. Set the same sampling rates for the **UAC-8** and the connected device.

   **NOTE**
   For instructions about how to change the sampling rate of the **UAC-8**, see the **UAC-8 MixEfx Reference Guide**.
Using Digital Audio Equipment

Inputting an S/PDIF signal to the **UAC-8**

1. Use **UAC-8 MixEfX** to set CLOCK SOURCE to S/PDIF.

   ![CLOCK SOURCE Indicator](image)

   The S/PDIF CLOCK SOURCE indicator will blink.

2. Connect the S/PDIF device to the S/PDIF IN jack.

3. The S/PDIF CLOCK SOURCE indicator will light, confirming synchronization.

Outputting a S/PDIF signal from the **UAC-8**

1. Use **UAC-8 MixEfX** to set CLOCK SOURCE to INTERNAL.

   ![CLOCK SOURCE Indicator](image)

   The INTERNAL CLOCK SOURCE indicator will blink.

2. Connect the S/PDIF device to the S/PDIF OUT jack.

3. If CLOCK SOURCE is set to S/PDIF, but synchronization with an S/PDIF device is not possible, the CLOCK SOURCE indicator will blink. In this case, the **UAC-8** will operate using its internal clock.

**NOTE**

- To synchronize audio clock, the **UAC-8** and the connected device must have the same sampling rate settings.
- When using an S/PDIF device with a word clock function, you can connect the **UAC-8** WORD CLOCK OUT connector to the S/PDIF device word clock input connector and synchronize them. (→P20)
Using Digital Audio Equipment (continued)

Connecting ADAT Optical Devices

1. Minimize the volume of output devices connected to the UAC-8.

**HINT**
When connected, noise might occur until clock synchronizes.

2. Set the same sampling rates for the UAC-8 and the connected device.

**NOTE**
For instructions about how to change the sampling rate of the UAC-8, see the UAC-8 MixEfX Reference Guide.

3. Use UAC-8 MixEfX to set CLOCK SOURCE to ADAT.

The ADAT CLOCK SOURCE indicator will blink.

4. Connect the ADAT optical device to the ADAT OPTICAL IN jack.

5. The ADAT CLOCK SOURCE indicator will light, confirming synchronization.
Using Digital Audio Equipment

Outputting an ADAT Optical signal from the UAC-8

3. Use **UAC-8 MixEfx** to set **CLOCK SOURCE** to **INTERNAL**.

   The **INTERNAL CLOCK SOURCE** indicator will blink.

4. Connect the ADAT Optical device to the ADAT OPTICAL OUT jack.

**NOTE**

- To synchronize audio clock, the **UAC-8** and the connected device must have the same sampling rate settings.
- When using an ADAT Optical device with a word clock function, you can connect the **UAC-8 WORD CLOCK OUT** connector to the ADAT Optical device word clock input connector and synchronize them. (→P.20)
- If **CLOCK SOURCE** is set to **ADAT**, but synchronization with an ADAT Optical device is not possible, the **CLOCK SOURCE** indicator will blink. In this case, the **UAC-8** will operate using its internal clock.
Using Digital Audio Equipment (continued)

Connecting the WORD CLOCK Connectors
Use the WORD CLOCK connectors when you want to synchronize with a master clock generator, for example.

1. Minimize the volume of output devices connected to the UAC-8.

HINT
When connected, noise might occur until clock synchronizes.

2. Set the same sampling rates for the UAC-8 and the connected device.

NOTE
For instructions about how to change the sampling rate of the UAC-8, see the UAC-8 MixEfx Reference Guide.

3. Use UAC-8 MixEfx to set CLOCK SOURCE to WORD CLOCK.

The WORD CLOCK CLOCK SOURCE indicator will blink.

4. Connect the other device to the WORD CLOCK IN connector.

5. The WORD CLOCK CLOCK SOURCE indicator will light, confirming synchronization.
Using the UAC-8 as the master clock

3. Use UAC-8 MixEfx to set CLOCK SOURCE to INTERNAL.

The INTERNAL CLOCK SOURCE indicator will blink.

4. Connect the other device to the WORD CLOCK OUT connector.

NOTE
- To synchronize audio clock, the UAC-8 and the connected device must have the same sampling rate settings.
- If CLOCK SOURCE is set to WORD CLOCK, but synchronization with the connected device is not possible, the CLOCK SOURCE indicator will blink. In this case, the UAC-8 will operate using its internal clock.
Using Digital Audio Equipment (continued)

■ Connecting MIDI Devices

1. Use MIDI cables to connect MIDI devices to the MIDI IN and OUT jacks.

   ![Diagram of MIDI connections]

   **NOTE**
   When using a MIDI port with a DAW, for example, follow the instructions below when making settings. The UAC-8 or UAC-8 MixEfx might not function properly otherwise.

   <Windows>
   Use [ZOOM UAC-8 MIDI]. Do not use [MIDI IN/OUT 2 (ZOOM UAC-8 MIDI)].

   <Mac>
   Use [ZOOM UAC-8 MIDI I/O Port]. Do not use [ZOOM UAC-8 Reserved Port].
Restoring Factory Default Settings

Follow these instructions to initialize settings, restoring them to the factory defaults.

1. Plug the AD-19 adapter designed for this unit into an outlet.

2. While pressing INPUT 1, turn ON.

   The INPUT 1 and power indicators will blink.

3. Initialize the settings.

   Execute: Press INPUT 1.
   Cancel: Press INPUT 2 or .
Troubleshooting

If you think that the **UAC-8** is operating strangely, check the following items first.

**Cannot select or use the **UAC-8** device**
- Confirm that the **UAC-8** is connected to the computer correctly.
- Confirm that the **UAC-8** CLASS COMPLIANT MODE switch is set to OFF.
- Quit all the software that is using the **UAC-8**, and use the POWER switch to turn the **UAC-8** off and on again.
- Reinstall the driver.
- Connect the **UAC-8** directly to a USB port on the computer. Do not connect it to a USB hub.

**Cannot use with an iPad**
- Turn the **UAC-8** power off, and set the CLASS COMPLIANT MODE switch to ON. Then, turn the power on again.

**Playback sound cannot be heard or is quiet**
- Check the speaker connections and volume settings on the speakers.
- Adjust the **UAC-8** MAIN OUTPUT and/or PHONES 1/2 volume.
- Use **UAC-8 MixEfx** to check the built-in mixer settings.
- Confirm that the Sound setting of the computer that you are using is set to “ZOOM UAC-8”.

**Recorded audio is too loud, too quiet or silent**
- Adjust the **UAC-8** input gain levels
- When using a condenser mic, turn phantom power on.
- Confirm that the Sound setting of the computer that you are using is set to “ZOOM UAC-8”.

**The sound of the device connected to the input jack is distorted**
- Confirm that the level indicators are not lighting red. If they are lighting red, lower the input levels.

**Sound skips during playback or recording**
- If you can adjust the audio buffer size of the software that you are using, increase the buffer size.
- Turn the automatic sleep function and other computer power saving settings OFF.
- Connect the **UAC-8** directly to a USB port on the computer. Do not connect it to a USB hub.

**Cannot play or record**
- Confirm that the Sound setting of the computer that you are using is set to "ZOOM UAC-8".
- Confirm that **UAC-8** is set for input and output in the software that you are using.
- Confirm that the **UAC-8** is connected to the computer correctly.
- Quit all the software that is using the **UAC-8**, and disconnect and reconnect the USB cable connected to the **UAC-8**.

**Sound skips during digital input or output**
- Confirm that the device used for audio clock synchronization is connected correctly.
- If the **UAC-8** is the master, confirm that audio clock is synchronized on the connected device.
- If the **UAC-8** is the slave, use **UAC-8 MixEfx** to confirm that the CLOCK SOURCE is set to the connection used for audio clock synchronization.
- If the **UAC-8** is the slave, confirm that the CLOCK SOURCE indicator is not blinking.
## Specifications

<table>
<thead>
<tr>
<th>ANALOG INPUT</th>
<th>INPUT 1–8</th>
<th>Connectors</th>
<th>XLR/TRS combo jacks (XLR: 2 hot, TRS: TIP hot)</th>
<th>Input gain</th>
<th>0–60 dB (1 dB steps)</th>
<th>Input impedance</th>
<th>5 kΩ 1 MΩ (When IN1/IN2 Hi-Z on)</th>
<th>Maximum input level</th>
<th>+13 dBu (XLR at 0 dBFS)</th>
<th>+21 dBu (TRS at 0 dBFS)</th>
<th>Phantom power</th>
<th>+48 V</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>MASTER OUTPUT L/R</td>
<td>Connectors</td>
<td>TRS jacks (balanced)</td>
<td>Maximum output level</td>
<td>+14 dBu (at 0 dBFS)</td>
<td>Output impedance</td>
<td>150 Ω</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>LINE OUTPUT 1–8</td>
<td>Connectors</td>
<td>Standard stereo phone jacks</td>
<td>Maximum output level</td>
<td>+10 dBu</td>
<td>Output impedance</td>
<td>33 Ω</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>PHONES 1/2</td>
<td>Connectors</td>
<td>ADAT lightpipe</td>
<td>8 IN/OUT: 44.1 kHz/48 kHz</td>
<td>4 IN/OUT: 88.2 kHz/96 kHz S/MUX compatible</td>
<td>2 IN/OUT: 176.4 kHz/192 kHz S/MUX4 compatible</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>S/PDIF</td>
<td>Connectors</td>
<td>RCA (coaxial)</td>
<td>44.1/48/88.2/96/176.4/192 kHz</td>
<td></td>
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<tr>
<td></td>
<td>WORD CLOCK</td>
<td>Connectors</td>
<td>BNC</td>
<td>44.1/48/88.2/96/176.4/192 kHz</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Frequency characteristics</td>
<td></td>
<td></td>
<td>44.1 kHz: −1.0 dB, 20 Hz–20 kHz</td>
<td>96 kHz: −1.0 dB, 20 Hz–40 kHz</td>
<td>192 kHz: −1.0 dB, 20 Hz–60 kHz</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Input conversion noise</td>
<td></td>
<td></td>
<td>Measured EIN: 125 dB (IHF-A) at 60 dB, 150 Ω input</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Dynamic range</td>
<td></td>
<td></td>
<td>AD: 120 dB typical (IHF-A)</td>
<td>DA: 120 dB typical (IHF-A)</td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
### Specifications (continued)

<table>
<thead>
<tr>
<th>Number of recording and playback channels</th>
<th>Audio interface/standalone mode</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Recording: 18 channels (ANALOG: 8, S/PDIF: 2, ADAT Optical: 8)</td>
</tr>
<tr>
<td></td>
<td>Playback: 20 channels (ANALOG: 10, S/PDIF: 2, ADAT Optical: 8)</td>
</tr>
<tr>
<td></td>
<td>at 44.1 kHz and 48 kHz</td>
</tr>
<tr>
<td></td>
<td>Recording: 14 channels (ANALOG: 8, S/PDIF: 2, ADAT Optical: 4)</td>
</tr>
<tr>
<td></td>
<td>Playback: 16 channels (ANALOG: 10, S/PDIF: 2, ADAT Optical: 4)</td>
</tr>
<tr>
<td></td>
<td>at 88.2 kHz and 96 kHz</td>
</tr>
<tr>
<td></td>
<td>Recording: 12 channels (ANALOG: 8, S/PDIF: 2, ADAT Optical: 2)</td>
</tr>
<tr>
<td></td>
<td>Playback: 14 channels (ANALOG: 10, S/PDIF: 2, ADAT Optical: 2)</td>
</tr>
<tr>
<td></td>
<td>at 176.4 kHz and 192 kHz</td>
</tr>
<tr>
<td></td>
<td>Recording: 8 channels (ANALOG: 8)</td>
</tr>
<tr>
<td></td>
<td>Playback: 10 channels (ANALOG: 10)</td>
</tr>
<tr>
<td></td>
<td>at 44.1kHz, 48kHz, 88.2kHz, 96kHz, 176.4kHz and 192kHz</td>
</tr>
<tr>
<td>CLASS COMPLIANT mode</td>
<td></td>
</tr>
<tr>
<td>Sampling frequencies</td>
<td>192 kHz, 176.4 kHz, 96 kHz, 88.2 kHz, 48 kHz, 44.1 kHz</td>
</tr>
<tr>
<td>Bit depth</td>
<td>24-bit</td>
</tr>
<tr>
<td>Interface</td>
<td>USB3.0 / 2.0</td>
</tr>
<tr>
<td>MIDI IN/OUT</td>
<td>5-pin DIN jacks</td>
</tr>
<tr>
<td>Power supply</td>
<td>AD-19 DC12V 2A AC adapter</td>
</tr>
<tr>
<td>External dimensions</td>
<td>157.65 mm (D) × 482.6 mm (W) × 46.03 mm (H)</td>
</tr>
<tr>
<td>Weight (main unit only)</td>
<td>2.02 kg</td>
</tr>
</tbody>
</table>

Note: 0 dBu = 0.775 Vrms
FCC regulation warning (for U.S.A.)

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.