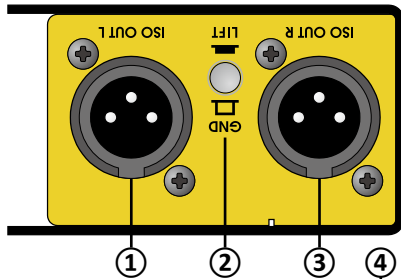


APPEARANCE PARTS & FUNCTIONS



① **Left channel signal output:** XLR terminal, isolated transformer's balanced output, no need to use +48V phantom power.

② **Output grounding/floating switch:** when the switch is not pressed, the first pin (PIN-1) of XLR is grounded. PIN-1 will be disconnected from ground after pressing. This button should depend on the system.

Used in the situation, in order to isolate the ground loop noise or leakage.

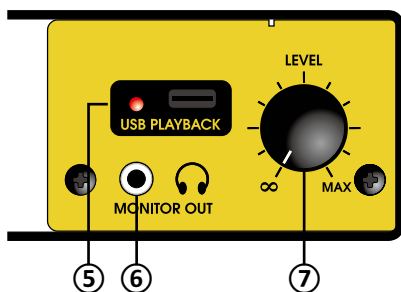
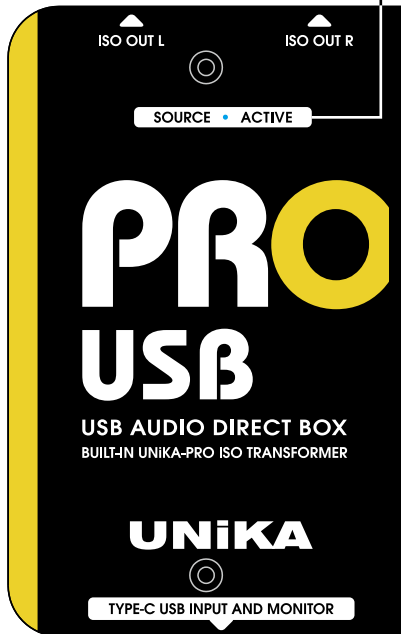
③ **Right channel signal output:** XLR terminal, isolated transformer's balanced output, no need to use +48V phantom power.

④ **Input signal indicator:** When the USB signal source is inserted, this LED display will light up, indicating that the signal and power supply are normal.

⑤ **TYPE-C USB playback input:** used to connect Android phones, Apple phones. In addition to compatible with the above operating systems, it can also play various lossless and compressed music and DSD.

⑥ **Headphone monitor output:** You can connect 16Ω~600Ω headphones for pre-cue or real-time monitoring with level control.

⑦ **Headphone monitor volume control:** You can adjust the volume of the monitor headphone without affecting the level of the balanced output.



CT7601SR USB/DSD AUDIO BRIDGE

OVERVIEW

CT-7601SR is a single chip audio USB 2.0/1.1 playback and record bridge.



It compatible with Windows, Mac OS, iOS and Android and plug and play no need extra driver.

AUDIO DECODING CAPACITY

- PCM (Stereo) support up to 192KHz/32bit through USB port.
- DSD (Native) support 2x bandwidth through USB port.

CS43131 DIGITAL AUDIO CONVERTER & HA

OVERVIEW

The CS43131 combines a next generation, low power audio DAC with a high-fidelity headphone amplifier to provide a superior system-level audio performance without draining battery life. This IC minimizes board space requirements while enabling performance and features to drive design differentiation. The CS43131 can support excellent audio quality with a wide range of headphones. This IC can drive 2 VRMS of output into 600 Ω high impedance headphones with an inter-channel isolation of >110 dB, and 30mW into 32 Ω low impedance headphones. To minimize pre-echo and ringing artifacts, the CS43131 is designed with proprietary digital-interpolation filters that support five selectable digital filter responses. Filtering options include low group delay with pseudo-linear phase and a fast or slow roll-off. Volume matching of the analog output levels and channel mixing enable a seamless transition between the DSD and PCM playback paths. The onboard low noise, ground-centered headphone amplifier provides proprietary AC impedance detection to support headphone fingerprinting to provide a consistent and transparent audio experience for the end user regardless of transducer impedances or frequency responses. The amplifier also supports adaptive post processing for customer bundled and third party headphones/headsets. An integrated auxillary audio input and "click-less" switch is provided for non-high-fidelity use cases.



FEATURES

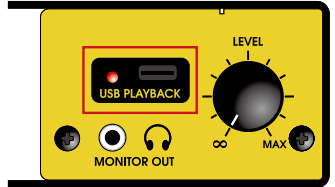
- Enhanced $\Delta\Sigma$ oversampling DAC architecture - 32-bit resolution - Up to 384-kHz sampling rate - Low clock jitter sensitivity - Auto mute detection
- Integrated high performance, ground-centered stereo headphone outputs
- 130dB dynamic range (A-weighted)
- -115dB total harmonic distortion + noise (THD+N)
- 110dB inter-channel isolation
- Up to 2-Vrms stereo output
- Headphone power output, 30mW per channel into 32 Ω / 5mW per channel into 600 Ω
- Headphone detection, Headphone DC and AC impedance measurement
- Headphone plug-in detection
- Pop-guard® technology eliminates pop noise
- Mono Mode (differential) support
- Wideband Flatness Mode Support
- Direct Stream Digital (DSD®) path - Up to 256
- Alternate headphone input
- Smart phones, tablets, portable media players, laptops compatible

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TYPE-C PLAYBACK

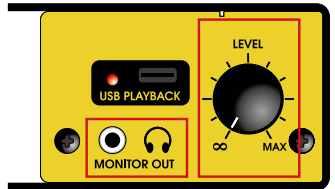
PRO USB is equipped with the most mainstream TYPE-C USB (2.0) terminal to connect to variety mobile devices and computers, and is accompanied by a music beat indicator on the left side of TYPE-C socket.

There are many TYPE-C conversion terminals on the market, and it is recommended to use qualified the products avoid transmission failures.



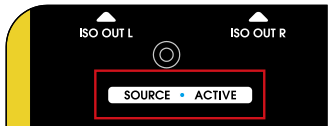
MONITOR

Equipped with a mini TRS headphone output jack and a monitoring volume knob at the bottom and right of TYPE-C, 16Ω~600Ω headphones can be inserted for advance and real-time monitoring. The volume knob does not affect the level of the balanced output at the back of the isolation transformer.



TYPE-C SIGNAL SOURCE ACTIVE INDICATOR

When connected to a computer or mobile device, the computer and mobile device will provide PRO USB power, and the blue light "SOURCE ACTIVE" on the top cover will also light up at this moment.

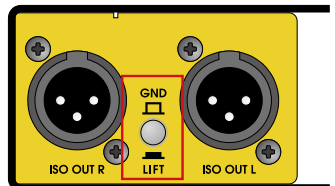


Please note that the light on does not mean that the audio signal has been connected. Please refer to the instructions on the previous pages to confirm whether your music is correctly transferred to the PRO USB via your computer or mobile device.

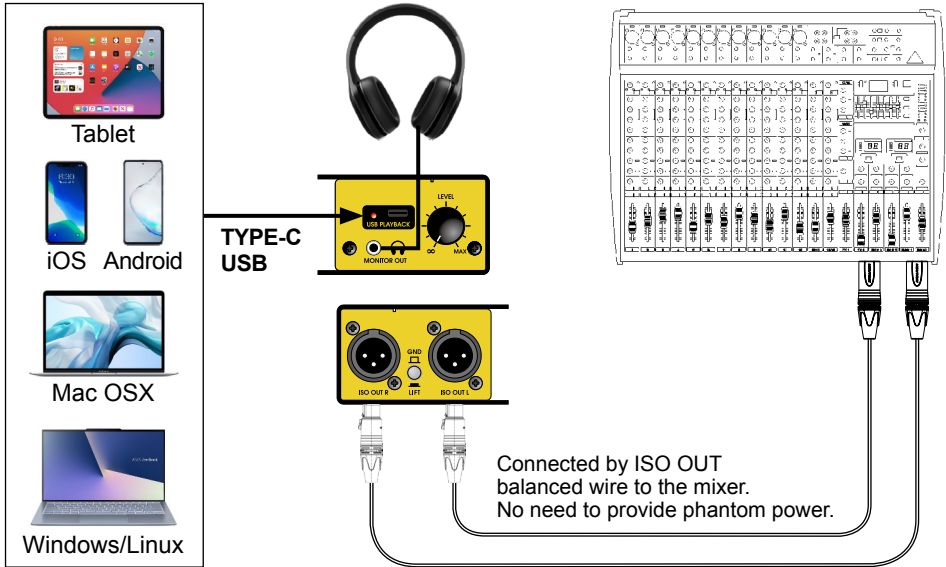
ELIMINATING GROUND LOOP NOISE

The built-in channel independent balanced isolation transformer has solved the potential difference leakage problem. When the system causes a ground loop due to poor wiring, the noise can be eliminated through the GND/LIFT button.

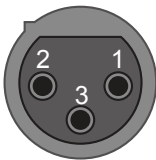
The GND/LIFT button determines whether pin 1 of the output XLR is grounded, grounded when it bounces, and disconnected from ground when pressed.



SYSTEM CONNECTION GUIDE



XLR-Female connector



XLR-Male output jack



- 1-Shield pin
- 2-Hot pin
- 3-Cold pin



TYPE-C Connect to input music source

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SPECIFICATIONS

(Specifications are subject to change without notice.)

PRO USB	
Circuit principle	Passive/Transformer balance output
USB Version & connector	Ver 2.0 Type- C
UAC bridge solution	32bit/192KHz
DAC solution	32bit/192KHz with 2x DSD
Power supply	Powered by PC or mobile phone through Type-C playback connector with LED status indicator
Music beat indicator	LED
Output connector	2 x Male XLR through ISO Transformer
Output GND/LIFT switch	Shared push button
Max Output level	0.778Vrms
Headphone power output	30mW per channel into 32Ω 5mW per channel into 600Ω
Frequency response	20Hz-20KHz, ±0.5dB
S/N ratio @20Hz~20KHz un-weight	>110dB
T.H.D. @1KHz 0dBV output	<0.005%
Transformer Ratio	1.25:1
Chassis	1.6mm/1.2mm steel cabinet and chassis
Surface finished	Durable complex painting
Dimension (W x D x H)	78 x 124 x 46 mm
Weight	0.64kg
Shipping weight	0.67kg
Packing per carton	20pc/14.00kg
Shipping dimension per carton	305 X 283 X 195 mm

UNiKA

PROFESSIONAL AUDIO