



UNiKA PRO MMD PRO Series Audio Interface Multi-Media Direct Box User Manual

[Home](#) » [UNiKA](#) » UNiKA PRO MMD PRO Series Audio Interface Multi-Media Direct Box User Manual 

Contents

- [1 UNiKA PRO MMD PRO Series Audio Interface Multi-Media Direct Box](#)
- [2 Product Information](#)
- [3 Product Usage Instructions](#)
- [4 GENERAL PRECAUTION BEFORE USE](#)
- [5 PRODUCT OVERVIEW](#)
- [6 APPEARANCE PARTS & FUNCTIONS](#)
- [7 INPUT PAD ATTENUATION](#)
- [8 CONNECTION GUIDE](#)
- [9 SPECIFICATIONS](#)
- [10 Documents / Resources](#)
- [11 Related Posts](#)

UNiKA
PROFESSIONAL AUDIO

UNiKA PRO MMD PRO Series Audio Interface Multi-Media Direct Box



Product Information

The UNiKA PRO SERIES AUDIO INTERFACE is a multi-media direct box designed and made in Taiwan. It is a dedicated DI box for passive multimedia, without the need to install battery or provide phantom power. The device features built-in UNiKA-PROTM EI9AE3R3 1.25:1 isolation transformers with a special copper foil layer and a dedicated ground layer. This allows the device to restore high signal/noise ratio and dynamic sound, while avoiding unnecessary leakage caused by radio frequency interference, ground interference, and potential difference. The PRO MMD is particularly suitable for play decks, computers, and video equipment. It converts high-impedance signals into low-impedance balanced signals, making it convenient for extending the wiring distance and blocking interference.

Product Usage Instructions

1. Before using the UNiKA PRO SERIES AUDIO INTERFACE, please read the user manual carefully.
2. If using a mixer to connect to the interface, turn off the mixer power and +48V phantom power before connecting. Then, turn on the power and phantom power in turn after inserting the signal cables.
3. For passive models, do not turn on the phantom power to avoid leakage or damage to the equipment.
4. If using a model with a volume knob, turn the volume knob to the minimum before use.
5. During use, do not plug or unplug the wires arbitrarily to avoid signal loss.
6. Refer to the user manual for the soldering method of plugs to ensure the expected level and keep the signal smooth.
7. If further installation or operation guidance is needed, contact UNiKA's dealer or distributor, or write to info@unikapro.com for help .

PRO SERIES AUDIO INTERFACE MULTI-MEDIA DIRECT BOX DESIGN & MADE IN TAIWAN



GENERAL PRECAUTION BEFORE USE

- Thank you for purchasing the UNiKA PRO SERIES AUDIO INTERFACE. Before using, please read this manual carefully and pay attention to every detail that you must pay attention to. If you use a mixer to connect to this interface, please turn off the mixer power and +48V phantom power before connecting, and then turn on the power and phantom power in turn after inserting the signal cables. For passive models, please do not turn on the phantom power to avoid leakage or damage the equipment.
- If using a model with a volume knob, turn the volume knob to the minimum. During use, please do not plug or unplug the wires arbitrarily to avoid signal loss. Please refer to the following instructions for the soldering method of the plugs to ensure the expected level and keep the signal smooth.
- If you need further installation or operation guidance, please directly contact UNiKA's dealer or distributor, or write to the following mail address for help: info@unikapro.com

PRODUCT OVERVIEW

- PRO MMD is a dedicated DI box for passive multimedia, without the need to install battery or provide phantom power.
- PRO MMD has a pair of built-in UNiKA-PROTM EI9AE3R3 1.25:1 isolation transformers which has a special copper foil layer and a dedicated ground layer, which allows this device to restore high signal/noise ratio and dynamic sound, and can avoid unnecessary leakage caused by radio frequency interference, ground interference and potential difference.

- PRO MMD is particularly suitable for play deck, computer, and video equipment. It converts high-impedance signals into low-impedance balance signals which is convenient for extending the wiring distance and blocking interference.
- The input end of PRO MMD adopts two TRS sockets, a pair of RAC sockets and a mini TRS socket, any one socket can be used as input or through out. In addition, it is equipped with a 0/-20dB attenuation switch, which is suitable for various types of audio signals with high and low impedance. The output terminal is also equipped with a ground/floating button, in order to quickly eliminate ground noise.

CAUTION

- This product has undergone rigorous inspection before leaving the factory. If customers encounter failures during use, please contact your local dealer or distributor for replacement or repairing, do not disassemble the case or replace parts by yourself, which will invalidate the warranty.
- For details, please refer to the warranty regulations in the enclosed warranty card, and fill in the details, and get a valid stamp or signature of the dealer or distributor.

PARAMETER TEST CONDITIONS

In the development and manufacturing process, Audio Precision's 2700 series and 500 series are used to test and verify electrical characteristics.

FEATURES

- Built-in UNiKA-PROTM EI9AE3R3 1.25:1 isolation transformer for each channel
- The input socket uses a pair of TRS jacks, a pair of RAC and a mini TRS.
- All input jacks can be using for through out.
- There is 0dB/-20dB input signal attenuation switch
- The output is equipped with a GND/LIFT switch

APPLICATIONS

- Convert unbalanced signals of various audio equipment into balanced signals, such as the headphone or line output of computers, play deck or mobile devices.
- Convert the unbalanced signal of the electronic musical instrument into a balanced signal and send it to the mixer.
- Isolate the leakage and hum be generated by potential when two different systems are connected but powered by separate power system or power generator.

APPEARANCE PARTS & FUNCTIONS

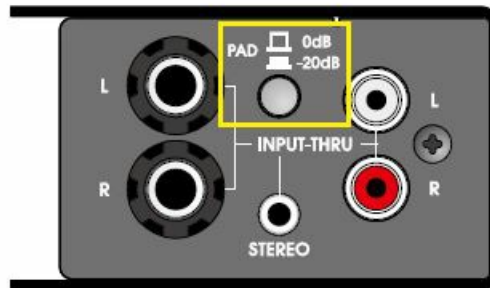
1. **Left channel signal output** : XLR terminal, isolated transformer's balanced output, no need to use +48V phantom power.
2. **Output grounding/floating switch**: when the switch is not pressed, the first pin (PIN-1) of XLR is grounded. PIN-1 will be disconnected from ground after pressing. This button 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. **L/R TRS input and through out:** balanced or unbalanced input, used to connect electronic musical instruments or audio playback equipment, and can be used as a through output of Mini TRS and RCA.
5. **PAD input attenuator switch:** provide two 0/-20dB Option, when inputting signals of various impedances and levels. It can be attenuated by 20dB to avoid overload or clipping.
6. **Mini TRS input and through out:** Mini TRS input to connect to mobile devices or computers, and can be used as a through output of Mini TRS and RCA.
7. **Stereo RCA input and through out:** Used to connect to consumer playback equipment or professional video card, and can be used as a through output of L/R TRS and Mini TRS.



INPUT PAD ATTENUATION

- The most widely used DI box is to connect electronic musical instruments, sound source broadcasting Amplifiers and computers, convert their output signals into balanced signals, and then extend the transmission distance.
- The most ideal state is to set the attenuator to 0dB position (button up). For some high-level output signals, you can press the button to make the signal is attenuated by 20dB to avoid clipping caused by signal overload.

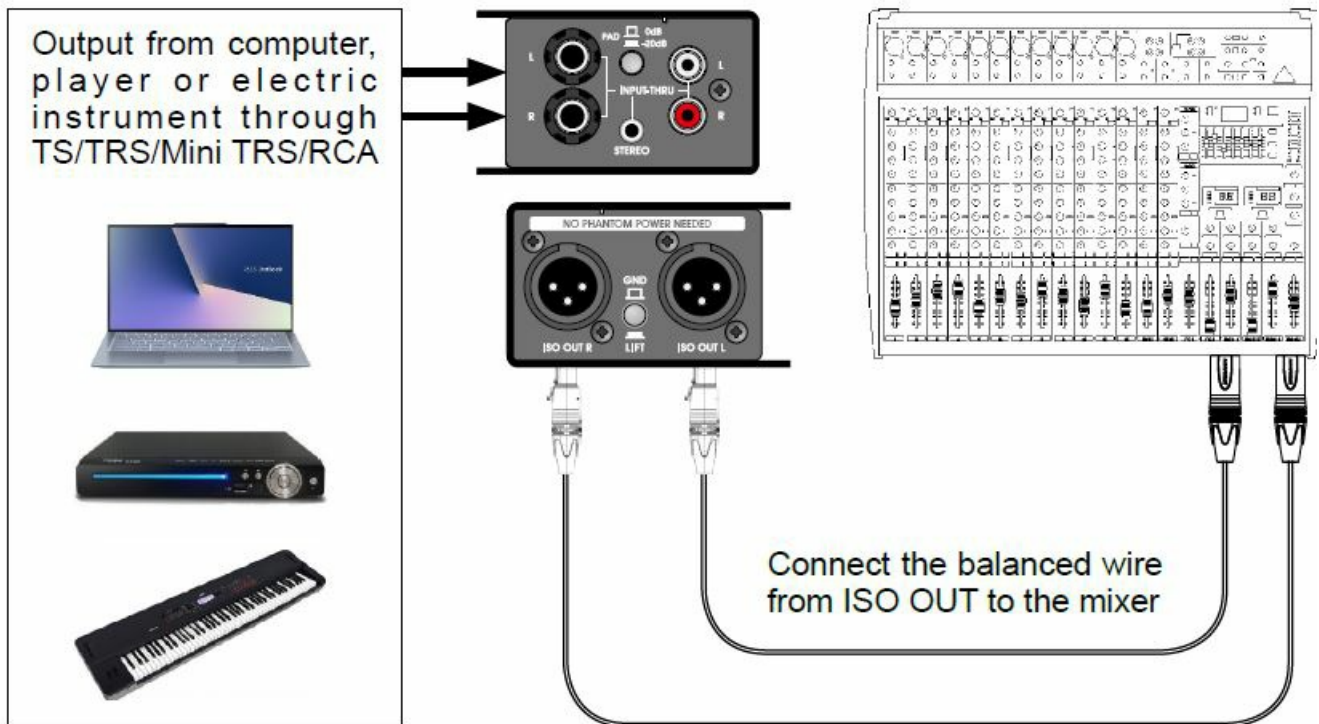


ELIMINATING GROUND LOOP NOISE

- 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.



CONNECTION GUIDE



CONNECTION GUIDE

1. Shield pin
2. Hot pin
3. Cold pin

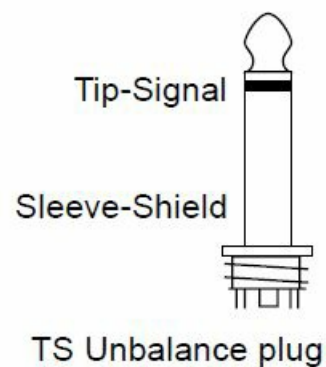
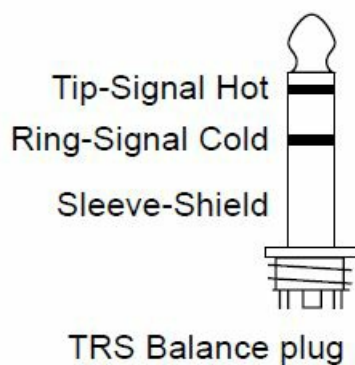
XLR-Female connector



XLR-Male output jack



The unbalanced connection, pin-2 is hot, pin-3 is shield paralleled with pin-1.



SPECIFICATIONS

(Specifications are subject to change without notice.)


PRO MMD

- **Circuit principle** Passive/Transformer balance output
- **Input connector** 2 x TRS, 1 x Mini TRS, 1 pair of RCA
- **Thru connector** Any one of the input sockets
- **Input pad switch** 0/-20dB push button
- **Output connector** 2 x Male XLR through ISO Transformer
- **Output GND/LIFT switch** Shared push button
- **Input impedance** 1K Ω / 0dB & -20dB
- **Output impedance** 50 Ω
- **Max. input level before clipping** + 22dB
- **Max Output level** + 22dB
- **Frequency response** 20Hz-20KHz, -0.3/0.9dB
- **S/N ratio @20Hz~20KHz un-weight** 120dB
- **T.H.D. @1KHz 0dBV output** <0.02%
- **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** 0.63kg
- **Shipping weight** 0.66kg
- **Packing per carton** 20pc/13.80kg
- **Shipping dimension per carton** 305 X 283 X 195 mm

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Documents / Resources

	<p>UNiKA PRO MMD PRO Series Audio Interface Multi-Media Direct Box [pdf] User Manual PRO MMD, PRO MMD PRO Series Audio Interface Multi-Media Direct Box, PRO Series Audio Interface Multi-Media Direct Box, Audio Interface Multi-Media Direct Box, Multi-Media Direct Box , Direct Box</p>
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