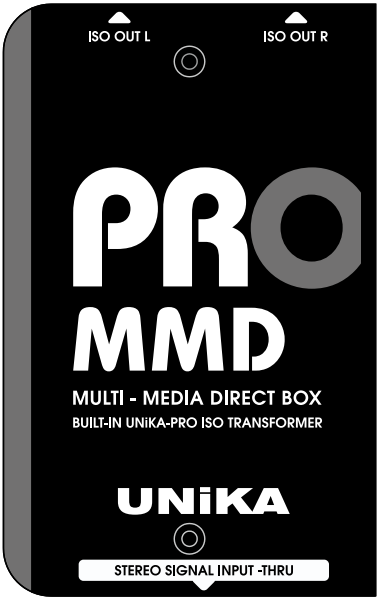
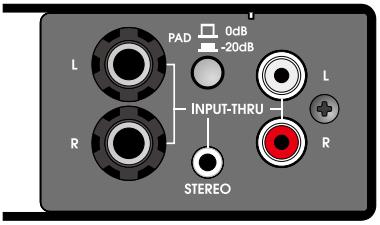
UNiKA
PROFESSIONAL AUDIO

USER MANUAL

PRO MMD

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





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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-PRO™EI9AE3R3 1.25:1 isolation transformer with special coating and surrounded by Oriental silicon steel shield 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/ loating 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.

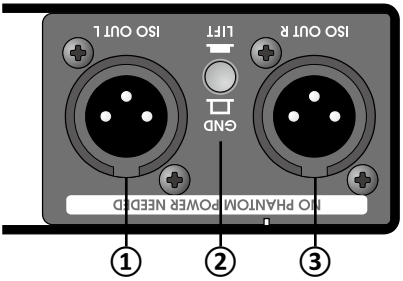
FEATURES

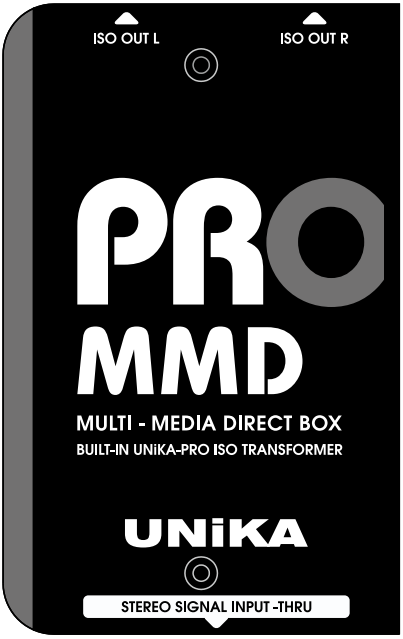
- Built-in UNiKA-PRO™ EI9AE3R3 isolation transformer for each channel
- The input socket uses a pair of TRS jacks, a pair of RAC and a mini TRS.
- All input jacks can be using for through out.
- There is 0dB/-20dB input signal attenuation switch
- The output is equipped with a GND/LIFT switch

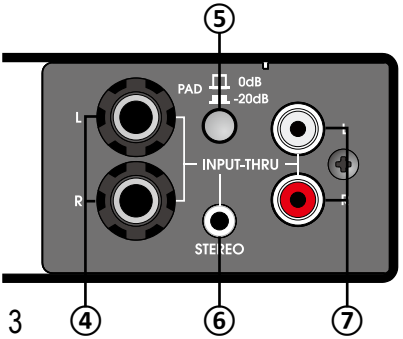
APPLICATIONS

- 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.

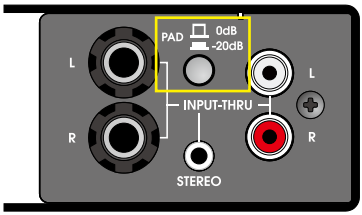
⑤ **PAD input attenuator switch:** provide two 0/-20dB Option, when inputting signals of various impedances and levels.

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

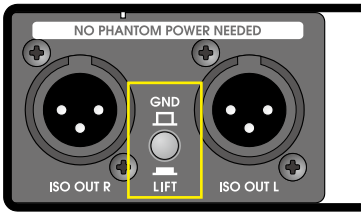


The most widely used DI box is to connect electronic musical instruments, sound source broadcasting Amplifiers and computers, convert their output signals into balanced signals, and then extend the transmission distance.

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.

When the button is pressed, the PAD indicator on the right will light up.

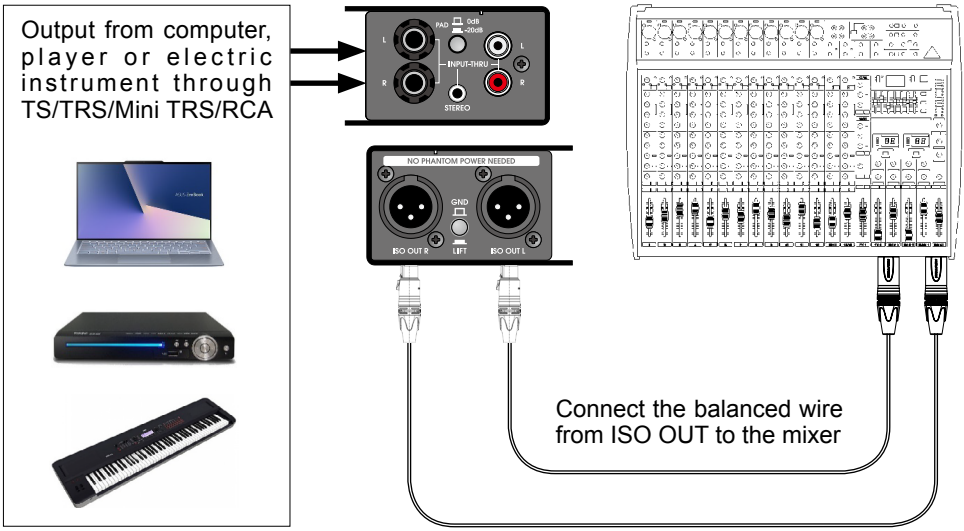
ELIMINATING GROUND LOOP NOISE



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



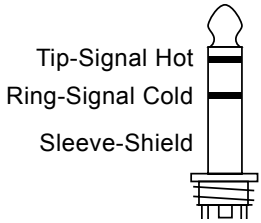
CONNECTION GUIDE

XLR-Female connector

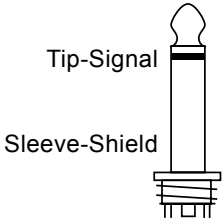
XLR-Male output jack

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

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



TRS Balance plug



TS Unbalance plug

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	10KΩ / 0dB & 12KΩ / -20dB
Output impedance	600Ω
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