



## FEATURES:

- » Properly interfaces consumer-grade portable audio players and laptop computers to professional sound systems
- » Stereo mini (1/8") input jack and individual RCA left and right input jacks provided
- » Transformer-isolated XLR male output jacks provided
- » Mono switch sums inputs to create a true stereo output or a mono audio output feed from either XLR connector
- » Rugged "Uni-Box" construction provides protection and EMI/RFI shielding

## DESCRIPTION:

The Pro Co iFace Portable Audio Player Interface is a device that allows simple and reliable connection of the stereo headphone outputs audio devices such as MP3 players, Apple® iPods, laptop or computers and consumer-type CD and DVD players to the balanced microphone inputs of audio mixing consoles.

The iFace provides both a stereo mini 3.5 mm (1/8") and recessed left/right RCA phono inputs for easy connection with standard patch cables and a mono switch to provide passive input summing to a dual mono output feed where required.

The outputs are isolated via audiophile-grade Pro Co MBT-1 Microphone Bridging Transformers and appear on standard 3-pin XLR male connectors. The transformers offer wide bandwidth and low distortion and phase shift,

and are magnetically shielded in mu-metal cans and electrostatically isolated with dual Faraday shields. The result is near-ideal rejection of interference from all sources of RFI and EMI, including radio pickup, SCR dimmers and 60 Hz hum.

The GROUND LIFT switch allows correct grounding for either AC or battery-powered sources, eliminating hum and buzz from ground loops between portable and house equipment.

The "Uni-Box" enclosure is formed of extruded aluminum side channels and 16-gauge steel top, bottom and end plates, designed to protect switches and connectors from accidental damage while also providing magnetic shielding for the circuitry. Industrial-grade connectors and switches provide trouble-free reliability.

# ENGINEERING SPECIFICATIONS:

The portable audio impedance-matching unit shall be suitable for interfacing one (1) stereo headphone-level source to one (1) or two (2) balanced or floating low-impedance (1.0 kohm nominal) mic level outputs. There shall be one (1) 3.5mm stereo input jack, wired in parallel to two (2) recessed RCA-type phono jacks. These inputs shall be provided with a miniature rocker-type switch and resistive summing network to provide input combining for monaural operation as required. There shall be two (2) Pro Co MBT-1 Microphone Bridging Transformers. The magnetic shield of the transformer shall be connected to the enclosure. The primary electrostatic shields of the transformers shall be connected to the unbalanced input connectors and to the enclosure. The secondary electrostatic shields shall be connected to pin 1 of the appropriate XLR-type output connector.

The enclosure shall be the Pro Co "Uni-box" design with 16-gauge steel black zinc finish top and bottom plates, 16-gauge black texture powder coated steel end plates and black anodized aluminum side channels. Control functions shall be identified by a printed Lexan® top panel overlay. Switches shall be of the miniature "rocker" type and shall be flush-mounted. The enclosure shall be provided

with two (2) miniature handles at each end (front and back) and four (4) non-conductive feet. The dimensions of the unit shall be 4.875" D x 4.375" W x 1.75" H (123.8mm D x 111.1mm W x 44.4mm H).

The signal splitting/impedance matching unit shall be a Pro Co TradeTools iFace Portable Audio Player Interface.

The MBT-1 is a carefully designed, custom-built 1:1 microphone bridging transformer whose characteristics are optimized for use with balanced low-impedance microphones or similar sources. Special winding techniques and a high-permeability (80% nickel) core lamination preserve full frequency response while minimizing signal losses and other "loading" effects. Mu metal can and separate electrostatic shields for primary (input) and secondary (output) windings reduce capacitive coupling of ground-borne electrical noise between main and stage monitor or recording mixers, eliminating annoying 60-Hz hum and buzz. The source impedance of the MBT-1 is very similar to that of a low-impedance microphone to ensure proper matching to the input circuitry of the mixer. The result is clean transient response (minimal overshoot or ringing) and low distortion even at low frequencies and high input levels.

# TYPICAL PERFORMANCE:

**VOLTAGE LOSS:** 1.0 dB (@1.0 kHz)  
**INPUT IMPEDANCE:** 150 ohm @ 1.0 kHz  
**SECONDARY SOURCE IMPEDANCE:** 270 ohm @1.0 kHz  
**TOTAL HARMONIC DISTORTION:** < .1% 30Hz-20kHz  
 @ -15 dBv output

**FREQUENCY RESPONSE (Re: 1.0 kHz):** +.2dB @ 20 Hz  
 -.6dB @ 20 kHz  
 -4dB @ 65 kHz  
**INSULATION:** > 600V winding/shield/winding

# CONTROLS:

**STEREO INPUT:** 3.5mm (1/8") mini phone jack accepts signals from unbalanced stereo headphone sources including desktop and notebook computers and MP3 and CD/DVD players.

**LEFT/RIGHT INPUTS:** Recessed RCA phono jacks wired in parallel to the STEREO mini input.

**MONO SWITCH:** Provides input summing to combine stereo sources for mono output for applications where stereo operation is not required.

**BALANCED L/R OUTPUTS:** Male 3-pin XLR-type output jacks for connection to standard balanced line-level inputs of professional audio mixers.

**GND/LIFT:** GND position connects INPUTS and BALANCED OUTPUT grounds together. LIFT position "floats" BALANCED OUTPUT. Used to reduce hum and buzz by eliminating ground loops and providing proper grounding for various conditions.

**PRO CO MODEL: iFace**

**DIMENSIONS .....4.88" D x 4.38" W x 1.75" H**  
**123.8mm D x 111.1mm W x 44.4mm H**  
**WEIGHT..... 1.00 lb/0.46 kg**  
**SHIPPING WEIGHT ..... 2.00 lb/0.92 kg**