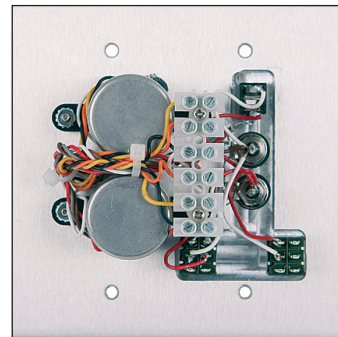


## FEATURES:

- » Convenient connection point for MP3 players and laptop computers to house sound systems
- » Ideal for application in meeting rooms and churches
- » Transformer-isolated to solve grounding problems
- » Stereo line inputs to stereo mic feeds
- » Barrier strip output connection for easy installation



REAR OF PLATE

## DESCRIPTION:

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

The iPlate provides both a Stereo mini 3.5 mm (1/8") and left/right RCA phono inputs for easy connection with standard patch cables and a stereo/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 outputs appear on an easy-to-wire screw-type barrier strip (requiring no crimp terminals) for rapid installation. 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 common-mode signals 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 iPlate is built on a standard-sized dual-gang wall plate constructed of brushed and beveled 1/8" (3.175 mm) anodized aluminum. All functions are clearly identified by laser engraved legends, providing an attractive and professional appearance in addition to trouble-free technical functionality. Although the finish is clear (silver), other colors including black and bronze are available on special order to complement any décor that may be required.

# ENGINEERING SPECIFICATIONS:

The wall-mounted impedance matching unit shall be suitable for interfacing one (1) headphone-level stereo source to one (1) balanced stereo or floating low-impedance (1.0 kohm nominal) microphone preamplifier inputs. There shall be one (1) stereo 3.5 mm phone jack marked "AUDIO INPUT". This input shall be wired to accept a standard 3.5 mm stereo plug. Additionally, there shall be two (2) RCA-type jacks marked "L" and "R". The input connectors shall be electrically isolated from the mounting plate. There shall be a transformer isolated, low-impedance output on a screw-type barrier strip. The transformers shall be a Pro Co MBT-1 Microphone Bridging Transformers.

The magnetic and the primary electrostatic shield of the transformers shall be connected to the unbalanced input connectors. The secondary electrostatic shields shall be connected to the output barrier strip. There shall be a miniature toggle-type switch marked "GROUND LIFT" to allow the shields to be connected together or isolated as required.

The unit shall be suitable for mounting in a 2-gang masonry-type electrical box (Appleton M2-250 or equivalent). It shall be constructed of 1/8" (3.175mm) anodized aluminum and shall be provided with a brushed finish as required and beveled edges. Control functions shall be identified by a laser-

engraved legend. The dimensions of the unit shall be approximately 2-1/2" (63.5 mm) D x 4-1/2" (114.3 mm) W x 4-1/2" (114.3 mm) H.

The wall-mounted impedance-matching unit shall be a Pro Co TradeTools™ iPlate™.

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 kHz):** 1.0 dB  
**INPUT IMPEDANCE:** 2.2 kohm  
**SECONDARY SOURCE IMPEDANCE:** 270 ohm @ 1.0 kHz  
**TOTAL HARMONIC DISTORTION:** < .1% 30 Hz-20 kHz @ -15 dBv output

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

# CONTROLS:

**AUDIO INPUT:** 3.5 mm stereo mini phone jack accepts signals from unbalanced headphone-level sources such as MP3/CD/DVD players and computer audio cards.

**L/R:** RCA phono-type jackwired in parallel to the STEREO mini input.

**STEREO/MONO SWITCH:** Miniature toggle-type switch provides input summing to combine stereo sources for mono output for applications where stereo operation is not required.

**GROUND LIFT:** Miniature toggle-type switch used to reduce hum and buzz by eliminating ground loops and providing proper grounding for various situations. Breaks connection point between input and output electrostatic shields.

