

# IHF to PRO Interface Amplifiers

BI400 BU400B UB400B

The **BI100**, **BU400** and **UB400** are interface amplifiers designed to interconnect consumer grade and semi-professional equipment into professional, balanced, low impedance audio systems.

The **BI100** is a **bi - directional stereo** interface, which bridges a stereo pair of professional 600 ohm balanced or unbalanced +4dBm lines and converts those signals to a nominal .25volt IHF level (-10dBu). The IHF output can feed, for example, the record inputs of a consumer grade cassette or DAT recorder. Simultaneously the BI100 also converts the unbalanced, high impedance, stereo, .25-volt IHF playback outputs from the tape deck to a +4dBm output capable of driving balanced or unbalanced lines of 600 ohms or greater line impedance.

The **UB400** is a uni - directional four-channel interface that converts four IHF **level** signals into **four balanced professional** outputs. The UB400 is particularly useful in protecting the four, eight or sixteen main or monitoring IHF outputs of low cost mixers and tape decks. The UB400 is also a very low cost way to interconnect two CD players into a balanced system.

The **BU400** is also a uni - directional four channel interface but it **converts four balanced professional** signals into **IHF** levels suitable for feeding the line inputs of a multi-channel tape deck, DAT machine or mixer.



- Quiet, external UL approved 24VDC wall mount power
- Gold plated RCA type phono jacks
- Stackable as two or three.
- Separate LEDs for each 1X4 channel indicate either output clipping (standard) or input signal presence (special order -S)



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## Technical Specifications

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GAIN	-14db nominal, -8db maximum. +14db nominal, +22db maximum. User adjustable for -10dBu (.25V) User adjustable to 0, +4 or +8dBm output with 0, +4 or +8dBm inputs output with -10dBu (.25V) input.
NOMINAL LEVELS	+4dBm input, -10dBu (.25V) out -10dBu (.25V) in, +4dBm out.
PEAK LEVELS	+22dBm in, +8dBu (2.0V) out +8dBu (2.0V) in, +22dBm out.
NOISE 20kHz B.W.:	-90dBu maximum output -80dBm maximum output.
HARMONIC DISTRIBUTION	.02% Max at Peak Level .02% max. at Peak Level 20Hz to 20kHz .005% max. at Nominal Level .005% max. at Nominal Level
FREQUENCY RESPONSE	+.25dB, 20 to 20,000Hz +.25dB, 20 to 20,000 Hz.
CROSSTALK	70dB minimum at 10kHz 70db minimum at 10kHz.
INPUT IMPEDANCE	Balanced, 20kohm bridging Unbalanced 10,000 ohms.
OUTPUT IMPEDANCE	Unbalanced, 1500 ohms max. Zs. Balanced, 40 ohms maximum.
DIMENSION	1.5"H by 5.5"W by 5.75"D; Weight: 1.5 Lbs. Net.
CONNECTORS	XLR (balanced input/outputs) & RCA phono jacks (unbalanced input/outputs).
POWER	24VDC @ .07A - BI100 & UB400, 24VDC @ .04A - BU400, Connector sleeve is positive.
POWER SUPPLIES	All units require 24VDC power supply, which is ordered separately. They can share a single supply-using loop thru DC cable (P/N 20602-1). Do not exceed rated supply current.
WARRANTY	Limited, One Year Warranty