

LA-40MKIII

Line converter (balanced/unbalanced, bi-directional)



The Tascam LA-40 MKIII has been primarily designed to provide matching capabilities between professional equipment and semi-professional or consumer equipment. It consists of four RCA inputs and outputs (-10 dBV, unbalanced) as well as four XLR inputs and outputs ($+4$ dBu/ -20 dBu, balanced) which enable the user to connect for instance four tracks of a multitrack recorder (ins and outs) to a balanced mixer ensuring optimum level and impedance matching. Also, a switch matrix allows channels to be linked, utilizing the converter as a distribution amplifier for splitting signals to multiple recorders, or for multizone sound routing applications.

Switches on the bottom panel allow to select a nominal level of $+4$ dBu or -20 dBu for each channel and ± 12 dB trim pots on the front panel make perfect level matching easy. LEDs on the front panel indicate signal presence for each channel. The LA-40 MKIII has also ground lift switches for each channel and a combined master switch to avoid ground loops.

Features at a glance

- 4 channels with unbalanced RCA inputs and balanced XLR outputs
- 4 channels with balanced XLR inputs and unbalanced RCA outputs
- XLR nominal level selectable between +4 dBu and -20 dBu
- Trim pots for each channel on front panel (± 12 dB)
- Signal LED for each channel

- Ground lift switches for each channel and master switch
- Distribution amplifier functionality: One mono input signal can be routed to all four output channels, or one stereo input signal can be routed to two channels each (RCA to XLR and XLR to RCA)
- Internal power supply, no AC adapter needed
- 1 U rack-mountable chassis

Related products



MM-4D/IN: Four-Channel Analogue-Dante Converter With DSP Mixer



ML-4D/OUT: Four-Channel Dante-Analogue Converter With DSP Mixer

Specifications

Inputs and outputs (unbalanced to balanced)

Inputs	4 RCA jacks (unbalanced)
Input impedance	23 k Ω (when all INPUT LINK switches are OFF) 5.7 k Ω (when all INPUT LINK switches are ON)
Nominal input level	-10 dBV, ± 1 dB
Maximum input level	+4.8 dBV
Indicator detection level	-36 dBV or more (OUTPUT LEVEL switch set to +4 dB or -20 dB)
Outputs	4 XLR-type connectors (balanced, Pin 1 = ground, Pin 2 = hot, Pin 3 = cold)
Output impedance	94 Ω
Nominal load impedance	10 k Ω
Minimum load impedance	600 Ω
Nominal output level	+4 dBu, ± 1 dB (OUTPUT LEVEL switch set to +4 dB) -20 dBu, ± 1 dB (OUTPUT LEVEL switch set to -20 dB)
Maximum output level	+23 dBu

Inputs and Outputs (balanced to unbalanced)

Inputs	4 XLR-type connectors (balanced, Pin 1 = ground, Pin 2 = hot, Pin 3 = cold)
Input impedance	54 k Ω (when all INPUT LINK switches are OFF) 13.5 k Ω (when all INPUT LINK switches are ON)
Nominal input level	+4 dBu, ± 1 dB (INPUT LEVEL switch set to +4 dB) -20 dBu, ± 1 dB (INPUT LEVEL switch set to -20 dB)
Maximum input level	+30 dBu (INPUT LEVEL switch set to +4 dB) +8 dBu (INPUT LEVEL switch set to -20 dB)
Indicator detection level	-22 dBV or more (INPUT LEVEL switch set to +4 dB) -46 dBV or more (INPUT LEVEL switch set to -20 dB)
Outputs	4 RCA jacks (unbalanced)
Output impedance	200 Ω
Nominal load impedance	10 k Ω
Minimum load impedance	1 k Ω
Nominal output level	-10 dBV, ± 1 dB
Maximum output level	+18 dBV

Audio performance

TRIM range	± 12 dB
S/N ratio (at nominal levels)	90 dB(A) (20 kHz LPF) 87 dB(A) (20 Hz HPF and 20 kHz LPF)
Total harmonic distortion (1 kHz, at nominal levels)	0.005 % or less
Frequency response (at nominal levels)	20 Hz - 100 kHz, ± 3 dB
Crosstalk (1 kHz, nominal levels, 600 Ω load)	-90 dB

Other specifications

Power requirements	100-240 V AC, 50/60 Hz
Power consumption	6 W
Dimensions (W x H x D)	483 mm x 44 mm x 280 mm
Weight	3 kg

Design and specifications subject to change without notice.

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