TASCAM

LA-80MKII/LA-81MKII

Line converters (unbalanced/balanced)

LA-80 MKII and LA-81 MKII are 8-channel line level converters built for studio quality conversion between balanced (+4 dBu/–20 dBu) and unbalanced (–10 dB) line levels, offering the best integration of all types of equipment. LA-80 MKII offers eight unbalanced RCA inputs and eight balanced XLR outputs. LA-81 MKII has eight balanced XLR inputs and eight unbalanced RCA outputs. Also, both converters have a switch matrix that allows channels to be linked, utilizing each unit 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. Ground lift switches are available on each channel or globally for eliminating ground loops.

Related products

LA-40MKIII: Line converter (balanced/unbalanced, bi-directional)

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

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

Features at a glance

- **LA-80: 8 channels with unbalanced RCA inputs and balanced XLR outputs**
- **LA-81: 8 channels with balanced XLR inputs**
- **Trim pots (±12 dB) for each channel on front panel**
- **Signal LED for each channel**

and unbalanced RCA outputs
- **XLR nominal level selectable between +4 dBu and –20 dBu**
- **Ground lift switches for each channel and master switch**
- **Both units can act as distribution amplifiers**
- **Internal power supply, no adapter needed**
- **1 U rack-mountable chassis**

Specifications

Inputs and outputs (LA-80MKII, unbal. to bal.)	
Inputs	8 RCA jacks (unbalanced)
Input impedance	23 kΩ (when all INPUT LINK switches are OFF) 5.7 kΩ (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	8 XLR-type connectors (balanced, Pin 1 = ground, Pin 2 = hot, Pin 3 = cold)
Output impedance	94 Ω
Nominal load impedance	10 kΩ
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 (LA-81MKII, bal. to unbal.)	
Inputs	8 XLR-type connectors (balanced, Pin 1 = ground, Pin 2 = hot, Pin 3 = cold)
Input impedance	54 kΩ (when all INPUT LINK switches are OFF) 6.7 kΩ (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	8 RCA jacks (unbalanced)
Output impedance	200 Ω
Nominal load impedance	10 kΩ
Minimum load impedance	1 kΩ
Nominal output level	–10 dBV, ±1 dB
Maximum output level	+18 dBV

Audio performance	
TRIM range	±12 dB
S/N ratio (at nominal levels, INPUT/OUTPUT switches set to +4 dB)	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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