

# AD146 PRO-PORTABLE



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The design philosophy of the team developing the AD146 was to create a new standard of excellence so that the serious sound recordist would have an audio mixer of sufficient quality and reliability to last well into the next century. The slimline modules mean that the mixer is smaller than ever before and the four group outputs put this mixer in a class of its own. Add to that the M-S technology built in for both recording and post production and you will conclude, as we have, that the AD146 is truly a mixer for today and tomorrow and reflects over 25 years of dedication to high quality audio shown by this company.

The mixer is available in 6 frame! sizes, 6, 8, 10, 12, 18 and 24 inputs, and in 4 styles, portable with carrying handle, drop-through mounting into existing furniture, 19" rack mounting (10 input max) and in a wooden console. The new case design is eminently adaptable to all these sizes and formats and, because all the connectors are on the top panel, they are easily accessible in the field or in the studio.

There are 3 input modules to choose from and they can be fitted in any position in the frame; MIC/LINE, MONO LINE, STEREO LINE.

## FEATURES

- The AD146 inputs, main and auxiliary outputs are transformer balanced on XLRs. Separate connectors are used for microphone and line-level inputs: such is the isolation, both input signals may remain connected at all times. High-pass filter protects the transformer against low-frequency saturation. Headphones and two pairs of stereo auxiliary returns left and right appear on standard jacks. A 6-pin XLR carries two-way conversation between the mixer and an Outstation - boom operator, director etc.
- The AD146 has four mixing busses that enable mixing and/or recording to be performed in the L-R and M-S domains simultaneously. Matrix amplifiers may be switched into the main A-B and C-D outputs.
- The AD146 incorporates the M-S facilities that are now much appreciated by Audio Developments' customers. Many recordists are aware of the advantages Blumlein's M-S microphone techniques have over all other microphone techniques - even when recording in the L-R domain.
- Limiters - which may be linked for stereo operation Limiting is indicated by a pair of LEDs.
- A pair of meters - either PPMs or VUs - may be switched to monitor either the main output or the monitor/PFL output, and battery voltage. The meters can be illuminated.
- The frequency of the internal oscillator is selectable between 1kHz and 10kHz, its output replacing the signal on the main output (TONE).
- The headphone monitor may be switched between main output and tape-return - both with PFL override. The left, right and left + right signal paths may be routed to both contacts of the monitor-output jack.
- Via an internal microphone the operator is able to communicate with the main output (SLATE) and with an outstation (EXT) - from which talkback is available, under logic control.
- The AD146 presents all its input and output connectors on one surface of the case and in-line with the corresponding module. The connector panel is labeled in order that it may be read from the front of the mixer. The integral carrying handle may also be used to support the mixer at a comfortable working angle.
- Powering is provided for 48V Phantom and 12V Tonader microphones.
- The mixer receives its power from 10 x C cells fitted internally - the battery housing adding great strength to the casework. Alternatively, power may be supplied from an external 12-15V source. Audio Developments' AD100-09 power supply unit is designed to drive the mixer and, at the same time, charge a set of nickel cadmium batteries - when fitted.
- The mixer is available in four frame sizes with 6, 8, 10, 18 or 24 inputs.

## SPECIFICATION

MAX GAIN	MIC +85, 75, 65, 55, 45, 35 LINE 50, 40, 30, 20, 10, 0	MAX OUTPUT LEVEL	+24dBm
MAX. INPUT LEVELS	MIC -42, -32, -22, -12, -2, +8 LINE -7, +3, 13, 23, 33, 43	OUTPUT IMPEDANCE	<50R TRANSFORMER BALANCED
INPUT IMPEDANCE	MIC >1 K5 LINE >10K	NOISE	<127dB MIC 20-20 kHz 200R SOURCE <75dB S.N.R. LINE 20-20kHz
MIC POWER	48v PHANTOM 12v PHANTOM	LIMITER THRESHOLD	PPM6/+8de ATTACK TIME FACTORY SET 4mS MIN 100pS MAX 500mS

FREQUENCY RESPONSE +0; -1dB 20Hz TO 20kHz  
 HI PASS FILTER -3dB @ 90 Hz & 150 Hz 12dB/OCTAVE  
 EQUALIZER H.F. +12dB @ 10Hz VARIABLE SLOPE  
 M.F.+15dB @ 2k4Hz PEAK & DIP  
 L.F. + 1 2dB @ 1 00Hz VARIABLE  
 TURNOVER  
 HARMONIC <0.03% @ 1 kHz OdB  
 DISTORTION <0.15% @ 40-20kHz + 15dB  
 MEASURED IN TO 600R LOAD  
 CROSSTALK <70dB 40Hz TO 1 5kHz  
 INTERCHANNEL & GROUP

POWERING  
 CURRENT CONSUMPTION  
 DIMENSIONS  
 EXC. HANDLE

RELEASE TIME FACTORY SET 250mS  
 MIN 50mS MAX 500mS  
 EXTERNAL 12-24v D.C. ON 4 PIN XLR  
 INTERNAL 10 C Size Nicads or Dry cells  
 270mA (6 INPUT) WITHOUT POWERED MICS  
 6CH 8CH 10CH 12CH 18CH 24CH  
 (329 390 451 512 697 882) x 340 x  
 120mm  
 7.9Kg 8.7Kg 10.5Kg 11.3Kg 14.7Kg 18.1Kg



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Equipment meets with EU Directive on EMC