

AD245 PICO MIXER



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By reason of continuing demand for the long-established AD 145 (PICO), we have taken the opportunity to update an upgrade a mixer that several years ago created an industry standard for portable sound mixers.

Audio professionals working under pressure, have always appreciated the flexibility and ruggedness of PICO.

These features have been retained and repackaged in the customized extruded metalwork developed for the 140 series. Linkable limiters have been added to the main stereo output. The previous mono return is now in stereo form. The microphone amplifier has been replaced with that developed for AD 146 - proved and approved under studio and field conditions - thus providing the two qualities that characterize all Audio Developments' products: utter transparency of sound and residual noise apparently transformed into the realms of inaudibility.

Designated AD 245 - new PICO - this ergonomically friendly design and construction uses professional components throughout- including Penny and Giles 100mm long-stroke conductive-plastic faders.

FEATURES

- AD245 - the new PICO - retains all the facilities, simplicity of operation and reliability of its predecessor (AD145), and has been designed for discerning sound engineers requiring Audio Developments' build and transparent sound quality.
- The ultra-low-noise microphone amplifier developed for the AD140 series of mixers has now been hybridized for use in AD245. Powering is provided for 48V Phantom and 12V Tonader microphones.
- Above all others, the most appreciated feature of the original PICO was its simple but effective equalizer. This has been retained in the AD245 - as it has throughout the 140 series of mixers.
- Inputs are protected against radio-frequency interference, and transformer balanced. A high-pass filter protects the transformer against low-frequency saturation. The main, stereo output is transformer balanced and has separate left and right faders. A transformer-balanced, mono mix down of the main output is also available. An electronically-balanced, stereo tape-return appears on a pair of type-A jacks. An input calibration potentiometer is adjacent to the jacks on the connector panel.
- Limiters - which may be linked for stereo operation - have been incorporated in the main output. Taking advantage of the low noise-floor of modern digital recorders, the limiter slope ratio is a gentle 7:1 ; thereby reducing distortion and making artifacts normally associated with limiters much less noticeable or objectionable. 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 outstation normally receives the mixer's mono output.
- All input and output connectors are presented on one surface of the case and in line with their corresponding modules. The connector panel is labeled in order that it may be read from the front of the mixer. The integral carrying handle is also used to support the mixer at a comfortable working angle.
- The mixer receives its power from 8 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 three frame sizes with 6 & 8 inputs.

SPECIFICATION

REFERENCE OdB = 775mV at 1 kHz unless otherwise stated.

MAX GAIN	MIC 80db LINE 50db				
MAX INPUT LEVEL	MIC @ MAX GAIN -44dB @ MIN GAIN	+6dB		CROSSTALK	<-70dB 40Hz to 1 5kHz INTERGROUP & INTERCHANNEL
	LINE @ MAX GAIN -14dB @ MIN GAIN	+20dB		NOISE	MIC <-126dB EIN 20Hz to 20kHz: 200R SOURCE LINE >77dB SNR 20Hz to 20kHz: 0dBu IN & OUT
	STEREO-RETURN +18dB			EQUALIZATION	HF +10dB @ 10kHz LF +10dB @ 100Hz MF +15dB CENTRE FREQUENCY 2k5Hz Q = 1.2
	TB RETURN +18dB				HPF PRE-TRANSFORMER 12dB/OCTAVE -3dB @ 150Hz -3dB @ 90Hz
INPUT IMPEDANCE	MIC >1k5R			OUTPUT LIMITER	THRESHOLD +8dB
	LINE >6k5R				RATIO 7: 1
	STEREO-RETURN >100kR				ATTACK 2 SETTINGS INTERNALLY SWITCHABLE 1: 4mS 2: 20mS
	TB RETURN >20kR				RELEASE 2 SETTINGS INTERNALLY SWITCHABLE 1: 40mS 2: 1 00mS
MIC POWERING	48V PHANTOM & 12V TONADER				FACTORY SLOW SETTING
MAX OUTPUT	+23dBm L-R TRANSFORMER BAL			CURRENT CONSUMPTION	180mA (6 INPUT) 12V DC SUPPLY
	(600R LOAD) MONO TRANSFORMER BAL			DIMENSIONS EXCL. HANDLE	6CH 8CH 295mm 356mm x 300mm x 107mm
	+18dBm H'PHONE. UNBAL				
	(600R LOAD) TB SEND UNBAL			WEIGHT	6CH 8CH 6kg 7kg
OUTPUT IMPEDANCE	<60R L-R & MONO				
	<20R MONITOR				
	<20R TB SEND				
FREQUENCY RESPONSE	0: -1dB L-R & MONO				
	20Hzto 20kHz 0: -1.5dB MONITOR PATHS				
HARMONIC DISTORTION	<0.05% @ 1kHz @ OdBm output				
	<0.15% @ 40Hz to 15kHz @ +15dBm output				
OVERLOAD INDICATOR	ILLUMINATES @ +15dBu at the PRE-FADER POINT				



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Equipment meets with EU Directive on EMC