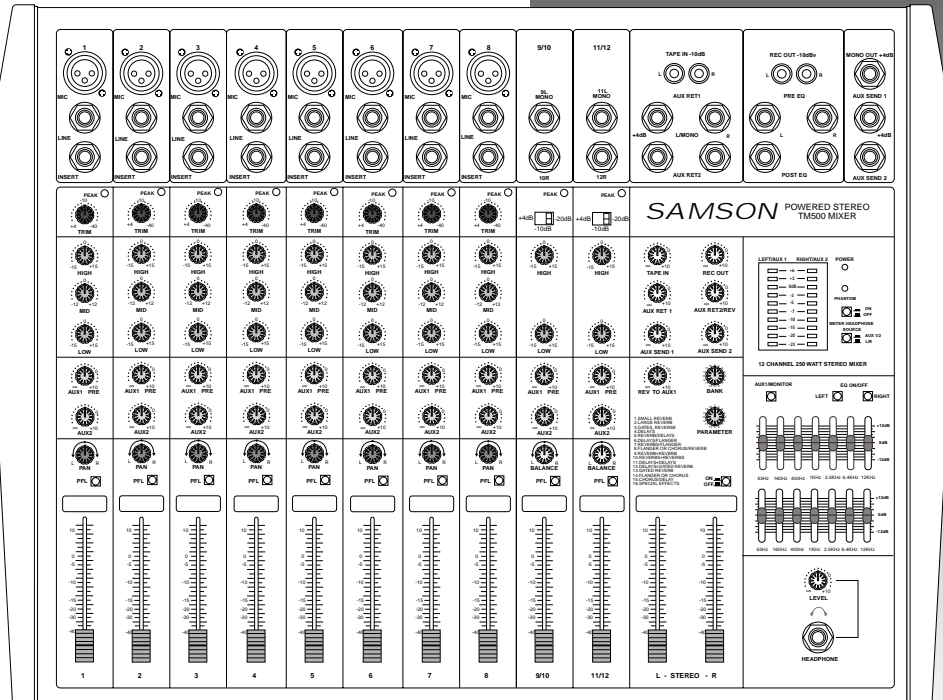


TM500

STEREO POWERED MIXER

SAMSON AUDIO



The TM500 is a practical 12-channel stereo powered mixer with built-in signal processing in a compact table top design. The mixer can also be rack-mounted with the supplied rack ears. It's ideal for small club venues, lounge acts and other sound reinforcement applications. A comprehensive mixer section with extensive routing and metering capability, the TM500's stereo power amp produces 250 watts a side into 4 ohms and features a fan-cooled, bipolar design for greater stability and long life. A built in DSP section provides 16 different effects including reverbs, delays, gates, flanging and more with up to 16 variations for a total of 256. 3-band EQ for the mono channels and 2-band EQ for the stereo channels is complemented by a dual 7-band graphic EQ for more sonic control. A truly useful audio tool that offers users exceptional versatility and performance in one package.

Contact:

- Versatile 12-channel table top/rack-mountable mixer
- 8 mono channels with balanced XLR mic and 1/4" line inputs, trim controls, 3-band EQ, 2 Auxes, Pan controls and channel inserts
- 2 stereo channels with 1/4" balanced TRS inputs Left/Right, 2-band EQ, 2 Auxes and Balance controls
- Built-in DSP section with up to 256 effect variations including reverbs, delays, gates and modulation effects
- Stereo power amp section produces 250 watts per side into 4 ohms
- Fan-cooled, bipolar power amp design for maximum reliability and long life
- Dual 7-band graphic EQ can be used in stereo or for main and monitor EQ
- Aux 1/monitor switch allows TM500 to be used both as a powered mono mixer and a monitor amplifier
- Dual 10-segment LED meter for L/R main and PFL
- 65mm faders on each channel
- Peak overload indicators on each channel
- Two master Aux sends, two master Aux returns
- PFL (Pre-Fader Listen) on each channel
- Headphone output and PFL function for mix monitoring
- Tape In and Record Out RCA connectors
- Global phantom power switch

**ARCHITECT'S & ENGINEER'S
SPECIFICATION**

The mixer amplifier shall incorporate a 250 W per channel stereo amplifier, a dual 7-band graphic equalizer, digital signal processing and a stereo mixer with 8 microphone-line input channels and two stereo line input channels. Microphone inputs shall be on XLR-type connectors and line inputs shall be on balanced 1/4" phone connectors. Each channel shall have a trim control (microphone channels) or pad switch (stereo line channels), one external and one internal effects sends, 3-band equalization (microphone channels) or 2-band equalization (stereo line channels), pan, a peak-level indicator and a level control.

Two stereo effects returns shall be provided on 1/4" phone connectors, and each shall have an independent level control. The mixer shall provide 256 variations of digital signal processing.

Phantom power of +48 volts shall be provided for operation of condenser microphones. The amplifier shall be fan cooled. Amplifier output shall be provided on two 1/4" phone connectors per side. Indicators shall be provided for output-signal level, power and +48 volts. The unit shall be a stand alone or rack-mount type (rack ears included).

The amplifier shall deliver maximum power equal to or greater than 250 watts per side into 4 ohms, signal-to-noise equal to or greater than 112 dB, THD less than 0.02% and frequency response of ± 1 dB from 20 Hz to 20 kHz. The mixer shall have residual noise of -90 dB and THD less than 0.02%. Dimensions shall be 19.35" (491 mm) wide, 13.75" (349 mm) deep and 5.5" (139 mm) high. Weight shall be 36 lb. (16.4 kg). The mixer amplifier shall carry a three-year warranty.

The mixer amplifier shall be a SAMSON TM500.

TM500 SPECIFICATIONS

MIXER/PREAMP SECTION

Frequency Response (± 1 dB)	20 Hz - 20 kHz
Total Harmonic Distortion (20 Hz to 20 kHz, -16 dB, trim minimum)	0.02%
Maximum Voltage Gain	
Mic to Main Insert L,R	+64 dB
Mic to Aux Send 1	+64 dB
Mic to Aux Send 2	+74 dB
Mic to Mono Out	+74 dB
Line to Main Insert L,R	+34 dB
Stereo to Main Insert L,R	+24 dB
Aux Return to Main Insert L,R	0 dB
Tape In to Main Insert L,R	+14 dB
Residual Noise (with DIN audio filter)	
All Fader Min / Main Insert L,R	-90 dB
All VR Min / Aux Send 1,2	-90 dB
Ch Fader Min, Master Fader Max	-75 dB
Equivalent Input Noise (-60 dB, Mic In pins 2,3 150 Ω , with DIN audio filter.)	-127 dB
Crosstalk (@ 1 kHz, Trim Min.)	
Channel to channel	-70 dB
Input to output	-70 dB
EQ Control	
High (10 kHz)	± 15 dB
Mid (1.8 kHz)	± 12 dB
Low (100 Hz)	± 15 dB
Graphic Equalizer (63 Hz, 160 Hz, 400 Hz, 1 kHz, 2.5 kHz, 6.4 kHz, 15 kHz)	± 12 dB
Phantom Power	+48 V
Signal Polarity (Phase)	same as Input

POWER AMP SECTION

Maximum Output Power (0.5% THD @ 1 kHz)	250 W / 4 ohm
Total Harmonic Distortion (20 Hz to 20 kHz, 1/2 rated power)	0.2%
Frequency Response (1 W/4 ohm, ± 0.5 dB)	20 Hz - 20 kHz
Dynamic Range	> 100 dB
Channel Separation	75 dB
Output Offset Voltage	± 100 mV

GENERAL

Dimensions (W x D x H)	
Table top	19.35 in. x 13.75 x 5.5 491 mm x 349 x 139
Rack-mountable (rack ears included)	19 in. x 13.75 x 5.5 482.6 mm x 349 x 139
Weight	36 lb • 16.4 kg
Power Requirements	115 V ac 60 Hz for UL and CSA Version 230/240 V ac 50/60 Hz for BSI and Central Europe Version 100 V ac 50/60 Hz for Japan Version
Power Consumption	982 W