

SP-16 DIGITAL MIXER



SP-16



CHARACTERISTIC

The XR16 has 16 inputs and 6 mixer busses for iPad and Android tablet or PC. Suitable for live sound reinforcement and studios, the XR16 has 8x16 stereo channels with 16x16 stereo matrix. The XR16 has a wireless remote control with an ultra-low latency 16x16 bidirectional 2-wire USB audio interface, it is an excellent digital mixing / digital recording mixer. You can freely mix and control all the parameters in the studio or live. Show by simply loading the application on iOS, Android or PC. The XR16 enjoys excellent design, exquisite workmanship, competitive price as well as outstanding performance.

FEATURES

- 8 programmable mic preamp which provides extraordinary sound effects
- WiFi mode available, no need additional routing
- 4 auxiliary sockets, main channel L/R bus sockets, full dynamic range, 24-bit resolution, 192kHz sampling rate, 24-bit processing, PC to achieve 2-track recording
- Four optional stereo / dual-channel effects engines offer a wide range of effects, including high-end analog effects such as Lexicon480L, PCM70, EMT250 and Quantec QRS
- Channel and bus balanced with 100 real-time analyzers
- With rack handle, collision protection design
- 4 auxiliary sockets, main channel L/R bus sockets, full dynamic range, 24-bit resolution, 192kHz sampling rate, 24-bit processing, PC to achieve 2-track recording
- With 4 TRS auxiliary output, 2 XLR main output and a monitoring headphone jack
- 40-bit floating-point DSP with "unlimited" dynamic range, almost no overload and latency
- MIDI input and output interface
- Internal switching power supply, with low noise, low power consumption
- Supports iOS, Android and PC / MAC / LINUX applications are available for remote control via WiFi / LAN.
- Our commitment to the future will continue to update the firmware and provide free download

Supports iPad / Android tablet control of 16 digital mixer, with 8 MIDAS classic preamp, built-in WiFi module to support wireless control, front panel USB2.0 interface supports multiple input to output

XAIR Mixer Series Specifications

Processing	SP 16	SP 12
Number of processing channels	16 input channels, 1 stereo USB return channel, 4 stereo FX return channels, 6 mix bus, main LR	16 input channels, 1 stereo USB return channel, 4 stereo FX return channels, 6 mix bus, main LR
Internal effects engines	4 true stereo	4 true stereo
Signal processing	48-bit floating point	48-bit floating point
A/D: D/A conversion (Conversion: A/D: C5485)	24-bit @ 44.1 / 48 kHz, 114 dB dynamic range	24-bit @ 44.1 / 48 kHz, 114 dB dynamic range
Analogue delay	0.8 ms	0.8 ms
Combinos	Programmable mic preamps, designed with 100 real-time analyzers	4 XLR/TRS combo jacks, balanced
Line inputs	8 TRS, balanced	8 TRS, balanced
Main outputs	2 XLR, balanced	2 XLR, balanced
Phones outputs	4 XLR, balanced	2 TRS, balanced
MIDI inputs / outputs	17 DIN	17 DIN
Ethernet	1845	1845
USB port	Type-A	Type-A
MIDI port characteristics	MIDI AS	MIDI AS
Preamp design	< 0.05%, A-weighted	< 0.05%, A-weighted
THD @ 1 mV, 20 dB gain, 0 dB out	47V	48V
Equivalent input noise level, 20 dB gain (typical)	-128 dBu, A-weighted	-128 dBu, A-weighted
CMRR, XLR @ 40 dB gain	-56 dB	-56 dB
CMRR, XLR @ 20 dB gain	-55 dB	-55 dB
Dynamic range @ 48 kHz sample rate, 0 dB to -78 dB	10 Hz - 22 kHz	10 Hz - 22 kHz
Dynamic range, analog mic in to analog out (typical)	105 dB	104 dB
A/D dynamic range, mic preamp to converter (typical)	108 dB	108 dB
D/A dynamic range, converter and output channels	108 dB	108 dB
Cross talk rejection @ 1 MHz, adjacent	90 dB	90 dB
Mic input impedance XLR jack, unbal / bal	5 kΩ / 10 kΩ	5 kΩ / 10 kΩ
Non clip maximum input level, XLR	+23 dBu	+23 dBu
Hi-Z input impedance TRS jack, unbal / bal	1 MΩ / 2 MΩ	1 MΩ / 2 MΩ
Line input impedance TRS jack, unbal / bal	20 kΩ / 40 kΩ	20 kΩ / 40 kΩ
Non clip maximum input level, TRS	+21 dBu	+21 dBu

XAIR Mixer Series Specifications

Output Characteristics	SP	SP 12
Output impedance, XLR, unbal / bal	50 Ω / 50 Ω	50 Ω / 50 Ω
Output level, XLR, nom / max.	+4 dBu / +16 dBu	+4 dBu / +16 dBu
Output impedance, TRS, unbal / bal	50 Ω / 50 Ω	50 Ω / 50 Ω
Output level, TRS, nom / max.	+4 dBu / +16 dBu	+4 dBu / +16 dBu
Phone output impedance / level	40 Ω / +15 dBm (stereo)	40 Ω / +15 dBm (stereo)
Residual noise level, XLR and TRS	-92 dBu, A-weighted	-92 dBu, A-weighted
Access Point, number of clients	External, 5MHz connector, 50 I	External, 5MHz connector, 50 I
IEEE 802.11n Standard	Max. 4	Max. 4
Frequency Range	2.412-2.462 MHz	2.412-2.462 MHz
WiFi LAN channels: WPA (Client, Access Point)	13 / 1 / 11	13 / 1 / 11
Max Output Power	19 dBm (602.110) / 18 dBm (602.11p)	19 dBm (602.110) / 18 dBm (602.11p)
Switch mode power supply	Average: 300-260 V, (50/60 Hz)	Average: 300-260 V, (50/60 Hz)
Power consumption	30 W	30 W
Standard operating temperature range	5°C - 40°C (41°F - 104°F)	5°C - 40°C (41°F - 104°F)
Dimensions	333 x 146 x 140 mm (13.1 x 5.7 x 5.5 in)	333 x 146 x 95 mm (13.1 x 5.7 x 3.7 in)
Weight	3.4 kg (6.8 lb)	2.4 kg (5.3 lb)

* Including all channels and bus processing, excluding insert effects