

PRO

POWERED MIXERS

PRODUCT SPECIFICATION SHEET

TYPE:

POWERED MIXERS



PRODUCT

**XM 610**

DESCRIPTION

**6 CHANNEL 600W POWERED MIXER**

SERIES

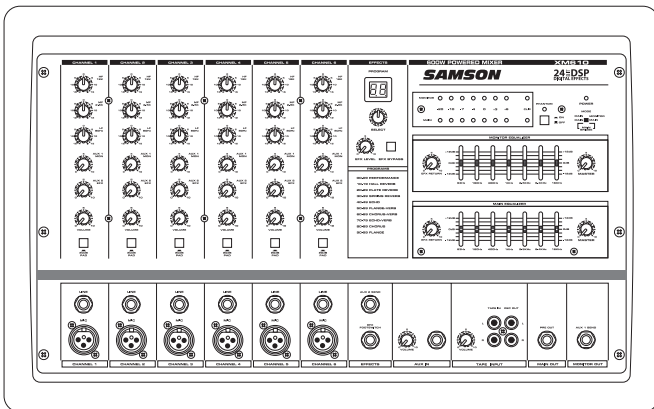
**XM**

CATEGORY

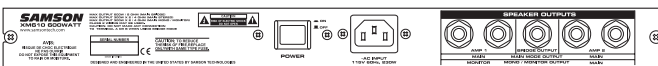
**POWERED MIXERS**



FRONT PANEL



BACK PANEL



**GENERAL DESCRIPTION**

The XM610 is a six channel, 600 Watt powered mixer with built-in 24 BIT DSP (Digital Signal Processor) effects. The XM610 will give you clean, clear sound reproduction thanks to the high quality, low noise microphone preamps, super clean mix bus, two on-board 7-band graphic equalizers and the high output/low distortion power amplifier. For studio quality processing, you can add one of the 100 dazzling digital effects including Delays, Chorus and lush Reverbs to your voice or instruments. The XM610's ingenious Kickback enclosure allows you to tilt the unit back to see and operate the controls with ease. The unit is easy to transport with its compact size and oversized, sure-grip handle. The super-tough ABS construction ensures reliable, high quality sound from venue-to-venue and performance-to-performance day in and night out. Optimized for live sound reinforcement and commercial installations, the XM610 is an ideal mixer and power amp solution offering big sound in a compact package.

**FEATURES**

- > Six channel powered mixer in ergonomically correct kickback enclosure allowing you to easily see and operate the front panel functions.
- > Six Mic / Line inputs with 1/4" phone and XLR connectors.
- > 2 x 300 Watts, or 300 Watt Main / 300 Watt Monitor, or 600 Watts Bridged power operating modes.
- > A built-in, 24-bit DSP (Digital Signal Processor) with 100 selectable presets including Reverb, Delay and Chorus, offers dazzling studio quality effects.
- > Dynamic or condenser microphones connect easily to the low noise mic pre-amps with available 48 Volt Phantom Power.
- > The 3-Band EQ on each channel enables you to tailor the tonal response for each input.
- > Two Auxiliary sends on each channel for building an independent mix to send to the DSP effects and monitors.
- > Dual 7-band Graphic Equalizer for operating in either Stereo, or Main / Monitor, allowing the system to be set-up for maximum gain before feedback.
- > A convenient Tape / CD Input is provided so you can connect a stereo device for accompaniment or background music.

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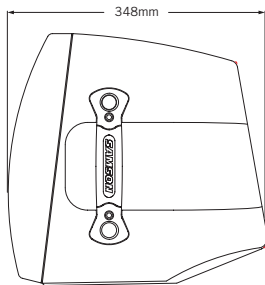
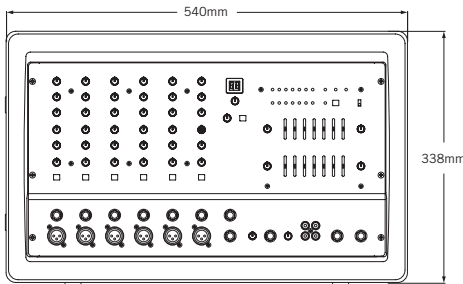
SERIES  
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DESCRIPTION  
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**FEATURES (continued)**

- > Brilliant sound quality from the advanced circuit design, utilizing low noise operational amplifiers.
- > Durable ABS plastic enclosure is road tough insuring reliable performance from night to night and venue to venue.
- > Convenient oversize, sure grip handle make the unit easy to carry.
- > Three-year extended warranty.



**ARCHITECT'S & ENGINEER'S SPECIFICATIONS**

The Samson XM610 shall be a 6 channel powered mixer. There shall be 6 mic/line channels with 3 band EQ. Each channel shall have a 20dB pad. Each channel shall have 2 aux sends, 1 to the monitor output and 1 to the DSP. The DSP shall have 100 programs of digital effects with a level control to send the DSP signal to the main bus. In the Main section, there shall be an Aux input with volume control going directly to the main amplifier section. There shall be a tape in and a tape out with level control. There shall be an Aux 2 send that bypasses the DSP. There shall be a footswitch jack provided for muting the DSP. There shall be a main mixer output before the amplifier section. The unit shall supply phantom power to the mic inputs. There shall be a monitor output getting its signal from the aux 1 send. There shall be a 7 band EQ for the monitor output. There shall be a 7 band EQ deriving its signal from the main bus. There shall be a 3 position switch to feed the main and monitor bus to the 2 amplifiers as Main / Main in amp 1 and 2, Main / Monitor in amp 1 and 2, and Main signal / bridged to amp 1 and 2. There shall be output metering on LED's with clip indicators.

**XM 610 SPECIFICATIONS**

<b>Rated Output power</b> .....	300W/4Ω@0.1% THD at 1KHz per amplifier
<b>Frequency response</b> .....	20Hz~20KHz+/-0.5dB@1W Output into 8Ω (AMP OUT); 20 Hz~20KHz+/-0.4dB@+4dB Output into 10kΩ (MAIN OUT, MONITOR OUT, AUX 2 SEND)
<b>Total Harmonic Distortion</b> .....	Less than 0.06% @ 20Hz~20KHz, 75W output into 4Ω (AMP OUT); Less than 0.1%@20 Hz~20KHz +4dBu output into 10KΩ (MAIN OUT, MON OUT, AUX 2 SEND)
<b>HUM &amp; Noise</b> .....	-121dB equivalent input noise
<b>(Average, RS+150Ω)</b> .....	-100dB residual output noise (MAIN OUT, MONITOR OUT, AUX 2 OUT)
<b>(with 22Hz~22KHz BPF)</b> .....	-79dB (MAIN OUT, MONITOR OUT) Master level control at maximum, all channel level controls at minimum; -79dB (AUX 2) Master level control at maximum, all channel level controls at minimum
<b>Maximum Voltage Gain</b> .....	67dB CH IN (MIC) to AMP OUT
	48dB CH IN (MIC) to MAIN OUT, MONITOR OUT
	54dB CH IN (MIC) to AUX 2 OUT
	30dB CH IN (MIC) to REC OUT
	32dB CH IN (LINE) to MAIN OUT, MONITOR OUT
	26dB AUX IN to MAIN OUT
	24dB TAPE IN to MAIN OUT
<b>Crosstalk 1KHz</b> .....	70dB adjacent input, 70dB input to output
<b>Input Channel Equalization</b>	
HIGH .....	12KHz shelving (+/- 15dB maximum)
MID .....	2.5KHz peaking (+/- 12dB maximum)
LOW .....	80Hz shelving (+/- 15dB maximum)
<b>Meters</b> .....	7 POINT LED METERS (-20, -10, -7, -4, 0, +3, +6dB)
<b>Graphic Equalizer</b> .....	7 bands (63, 160, 400, 1K, 2.5K, 6.4K, 16KHz)
<b>Internal DSP Effects</b> .....	24 BIT - 10 Presets each: 1 - Performance; 2 - Hall Reverb, 3 - Plate Reverb; 4 - Spring Reverb; 5 - Echo; 6 - Flange + Verb; 7 - Chorus + Verb; 8 - Echo + Verb; 9 - Chorus; 10- Flange
<b>Phantom Power</b> .....	+48V
<b>CLIP Indicators</b> .....	Turn on: THD> 0.1%
<b>Foot Switch</b> .....	DIGITAL EFFECT MUTE: ON/OFF
<b>Power Requirement</b> .....	110V-240V, 50/60Hz
<b>Power Consumption</b> .....	350W 1/8 power, 900W MAX.
<b>Weight</b> .....	40 lbs. (18.2Kg)
<b>Dimensions (W x H x D)</b> .....	21 1/4" x 13 1/4" x 13 3/4" 540mm x 338mm x 348mm