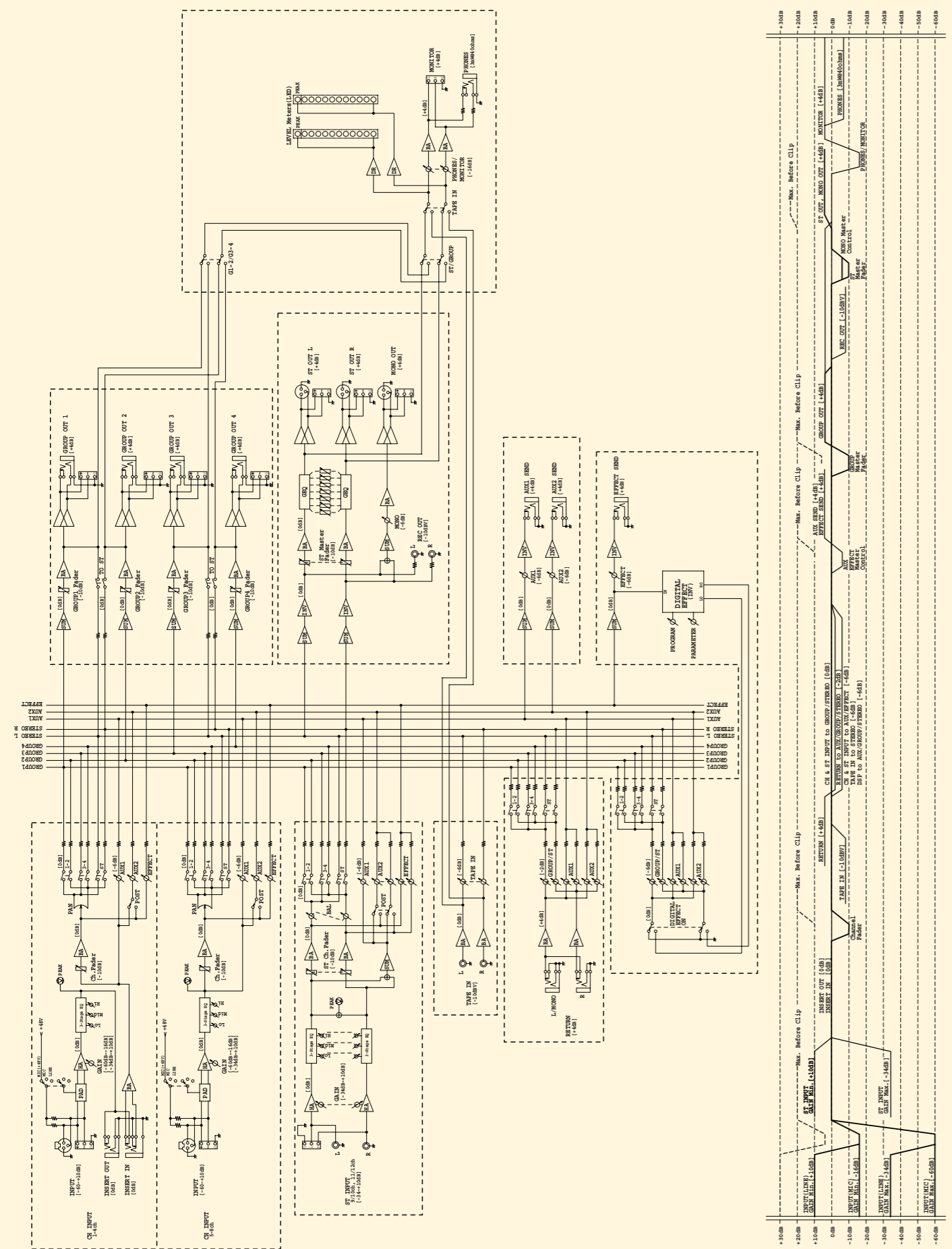


MV12/6 Block diagram



General Specifications

Frequency response (CH MIC INPUT to ST, GROUP OUT/AUX, EFFECT SEND)	20Hz—20kHz +1dB, -3dB @+4dB, 600Ω (INPUT GAIN Control at minimum level)
Total harmonic distortion (CH MIC INPUT to ST, GROUP OUT/AUX, EFFECT SEND)	<0.1% (THD+N) @+14dB, 20Hz—20kHz, 600Ω
Hum & Noise (Rs=150Ω, 20Hz—20kHz, INPUT GAIN Control=Max., Input Sensitivity=60dB)	-128dB Equivalent input noise -95dB Residual output noise -64dB (68dB S/N) ST OUT: Master fader and one channel fader at nominal level, channel assign switch ON. -90dB (94dB S/N) ST OUT: Master fader at nominal level, all channel assign switches OFF, all GROUP to ST switches OFF. -90dB (94dB S/N) GROUP OUT: Master fader at nominal level, all channel assign switches OFF. -84dB (88dB S/N) AUX SEND, EFFECT SEND: Master level control at nominal level, all channel send controls at minimum level.
Maximum voltage gain	60dB INPUT (MIC) to INSERT OUT 84dB INPUT (MIC) to GROUP OUT 84dB INPUT (MIC) to ST OUT (CH to ST) 94dB INPUT (MIC) to ST OUT (GROUP to ST) 76dB INPUT (MIC) to AUX1 SEND, AUX2 SEND (PRE) 86dB INPUT (MIC) to AUX2 SEND (POST), EFFECT SEND 58dB INPUT (LINE) to ST OUT (CH to ST) 58dB ST INPUT to ST OUT (CH to ST)

Monaural input gain control	44dB variable
Stereo input gain control	44dB variable
Crosstalk at 1kHz	-70dB adjacent input -70dB input to output (CH INPUT)
Input channel equalization	±15dB Maximum HIGH 10kHz shelving MID 2.5kHz peaking LOW 100Hz shelving * Turn over/Roll off frequency of shelving: 3dB below maximum variable level.
Monaural and stereo input peak indicators	Red: Each channel, when the level of the post EQ signal for each channel exceeds +17dB the indicator will light.
Level meters	12 points LED x2
Graphic equalizer	7 bands (125, 250, 500, 1k, 2k, 4k, 8kHz) ±12dB Maximum
Internal digital effect	16 types
Phantom power	+48V (balanced) : Supplied at the Input Select Switch = MIC(+48V) position
Lamp connector	XLR type (12V, 0.5A)
Power requirement/Power consumption	USA and Canadian: 120V AC 60Hz, 50W General: 230V AC 50Hz, 50W
Dimensions (W x H x D)	482 x 308 x 192 mm (7U Rack Mount Size)
Weight	9.0 kg (19.8 lbs.)
Accessories	3 pin Euro-block connectors: 18 Feet: 4

0dB=0.775Vrms

Input Specifications

Input connectors	Input Select Switch	GAIN Control	Input impedance	Nominal impedance	Input level			Connector type
					Sensitivity *1	Nominal	Max. before clipping	
INPUT (1-8)	MIC (+48V)	-60	3kΩ	50-600Ω mics & 600Ω lines	-80 dB (0.078mV)	-60 dB (0.775mV)	-40 dB (7.75mV)	XLR-3-31 type *2 Euro-block connector *2
	LINE	-34			-54 dB (1.55mV)	-34 dB (15.5mV)	-14 dB (155mV)	
	MIC (+48V)	-16			-36 dB (12.3mV)	-16 dB (123mV)	+4 dB (1.23V)	
	LINE	+10			-10 dB (245mV)	+10 dB (2.45V)	+30 dB (24.5V)	
ST INPUT (L, R) (9/10, 11/12)		-34	10kΩ	600Ω lines	-54 dB (1.55mV)	-34 dB (15.5mV)	-14 dB (155mV)	RCA phono jack *3 Euro-block connector *3
RETURN (L, R)		+10	10kΩ	600Ω lines	-10 dB (245mV)	+10 dB (2.45V)	+30 dB (24.5V)	Phone jack (TRS) *3
TAPE IN (L, R)			10kΩ	600Ω lines	-12 dB (195mV)	+4 dB (1.23V)	+20 dB (7.75V)	RCA phono jack *3
INSERT IN (1-4)			10kΩ	600Ω lines	-26 dBV (50.1mV)	-10 dBV (316mV)	+10 dBV (3.16V)	Phone jack (TRS) *2
					-20 dB (77.5mV)	0 dB (0.775V)	+20 dB (7.75V)	

*1 Input sensitivity: the lowest level that will produce the nominal output level when the unit is set to maximum gain.
*2 XLR type connector, Euro-block connector, phone jack (TRS) (T=Hot, R=Cold, S=Gnd): balanced type.
*3 RCA phono jack, Euro-block connector, phone jack (TRS) (T=Signal, R=Gnd, S=Gnd): unbalanced type.
• 0dB=0.775Vrms, 0dBV=1Vrms

Output Specifications

Output connectors	Output impedance	Nominal impedance	Output level		Connector type
			Nominal	Max. before clipping	
ST OUT (L, R), MONO OUT	150Ω	600Ω lines	+4 dB (1.23V)	+24 dB (12.3V)	XLR-3-32 type *1 Euro-block connector *1
AUX SEND (1, 2) EFFECT SEND	75Ω	600Ω lines	+4 dB (1.23V)	+20 dB (7.75V)	Phone jack (TRS) *2
GROUP OUT (1-4)	150Ω	600Ω lines	+4 dB (1.23V)	+24 dB (12.3V)	Phone jack (TRS) *3 Euro-block connector *1
MONITOR (L, R)	470Ω	10kΩ lines	+4 dB (1.23V)	+20 dB (7.75V)	Euro-block connector *4
INSERT OUT (1-4)	600Ω	10kΩ lines	0 dB (0.775V)	+20 dB (7.75V)	Phone jack (TRS) *2
PHONES	100Ω	40Ω phones	3mW	75mW	ST phone jack (TRS) *5
REC OUT (L, R)	600Ω	10kΩ lines	-10 dBV (316mV)	+10 dBV (3.16V)	RCA phono jack *6

*1 XLR type connector, Euro-block connector: balanced type.
*2 Phone jack (TRS) (T=Hot, R=Cold, S=Gnd): impedance balanced type.
*3 Phone jack (TRS) (T=Hot, R=Cold, S=Gnd): balanced type.
*4 Euro-block connector: unbalanced type.
*5 ST phone jack (TRS) (T=L, R=R, S=Gnd): unbalanced type.
*6 RCA phono jack: unbalanced type.
• 0dB=0.775Vrms, 0dBV=1Vrms

YAMAHA Web Site
<http://www.yamaha.co.jp/english/>
<http://www.yamaha.co.jp/product/proaudio/homeenglish/>

Specifications and appearances are subject to change without notice.



MIXER MV12/6

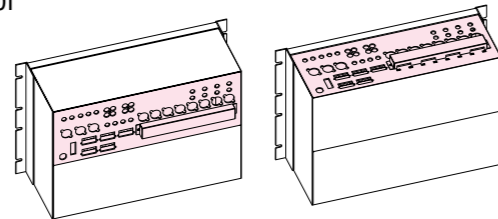


An Unbeatable Choice Where Superior Sound Quality and Versatility Count

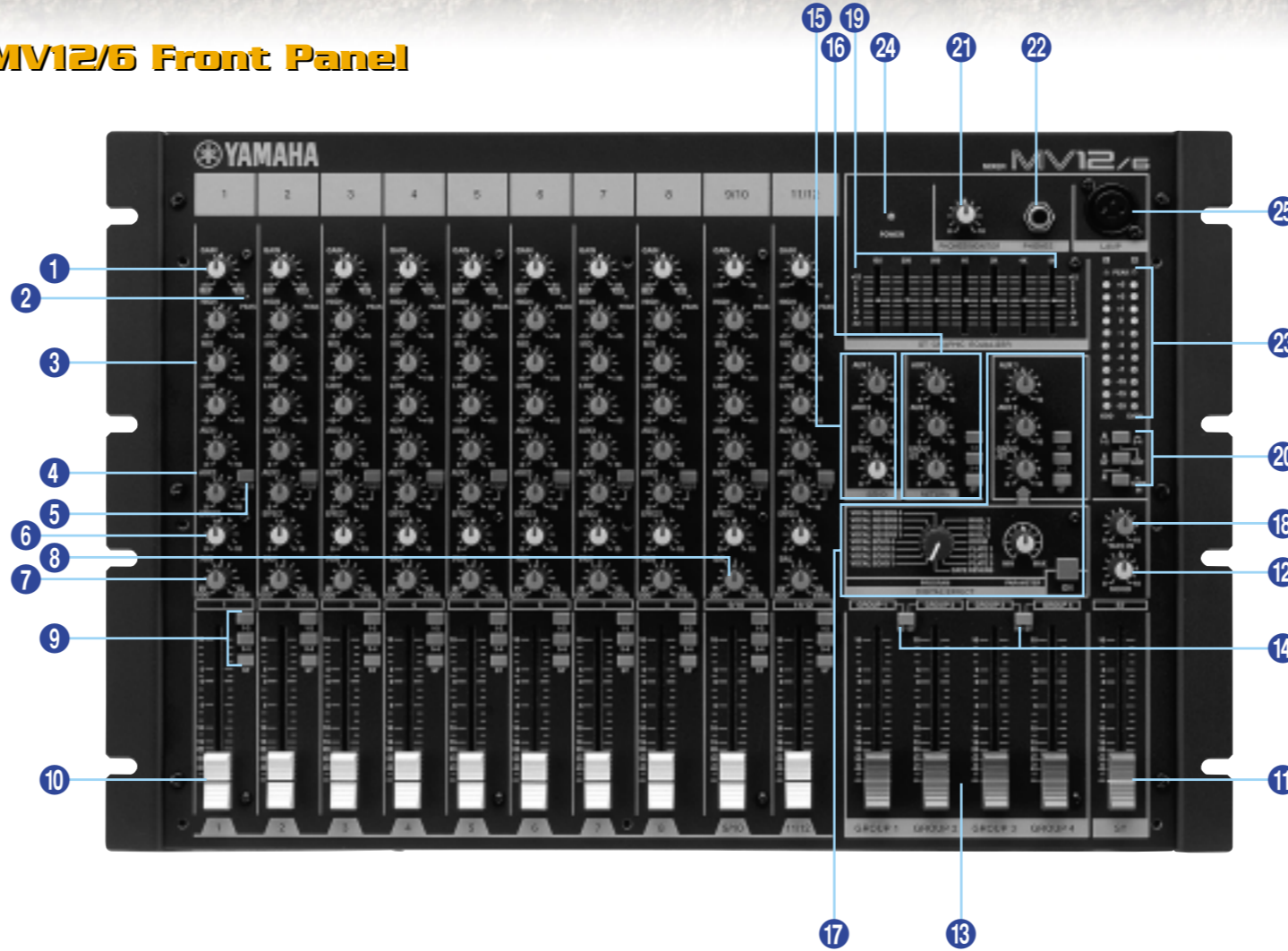
MV12/6

The MV12/6 puts the audio quality that sound engineers have come to expect from Yamaha, into a compact, 12-channel mixer especially designed for use in commercial applications. Our engineers took extra effort to design the MV12/6 so as to provide maximum ease and flexibility when installing and using the mixer. The utilization of Euro-block connectors and a connector panel that can be mounted on either the rear or topside of the unit allow installation of the mixer in locations that would be impossible for other units. The 12-channel configuration is perfect for smaller applications and the 6 independently assignable output buses (4 group + stereo) deliver added versatility while a selection of 16 digital effects, built-in, adds a professional touch to any mix.

- The MV12/6 provides a total of 12 input channels (8 monaural and 2 stereo) that can be mixed into four group and stereo outputs.
- Input channels 1-8 are compatible with a wide range of sources such as condenser microphones (requiring phantom power), regular dynamic microphones, or line level devices.
- Stereo input channels 9-12 are equipped with stereo RCA jacks and Euro-block connectors.
- A PHONES/MONITOR output and Euro-block MONITOR connector are provided for monitoring of the Stereo Out, Tape Out, Tape In or Grope Out programs. The MONITOR connector can be connected to a sub amp while the PHONES/MONITOR output can be connected to either a sub amp or headphones for monitoring.
- An on-board digital effects section and its 16 digital effects allows you to create professional sounding mixes without the need of external equipment. Also, the EFFECT SEND jack can be used for connecting an external effector to the unit.
- A 7-band ST graphic equalizer can be utilized for overall response shaping of the main speakers.
- The main input and output channels are equipped with Euro-block connectors for easy connection and installation, and allow direct connection to Yamaha's XM Series Power Amplifiers.
- The unit is equipped with two AUX Send/Return jacks. Two independent buses can be used as sends for external effectors or a monitoring system.
- Channels 1-4 are equipped with individual INSERT IN/OUT jacks allowing the inserting of an external effector into individual channels. These jacks can also be conveniently used as direct out jacks for recording.
- TAPE IN and REC OUT jacks are supplied for connection of tape decks for playback and recording.
- The connector panel can be attached to either the rear or top of the unit.

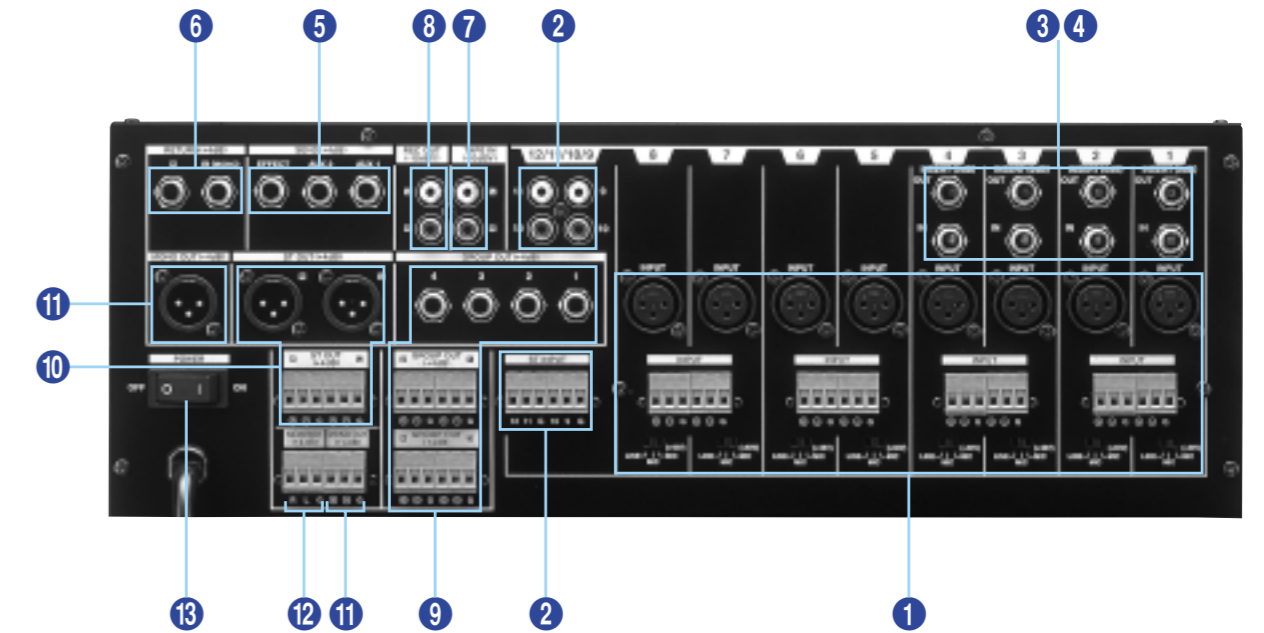


MV12/6 Front Panel



- | | | |
|---|--|--|
| <ul style="list-style-type: none"> 1 GAIN Control 2 PEAK Indicator 3 3-Band EQ 4 AUX 1, AUX 2 Control 5 POST Switch 6 EFFECT Control 7 PAN Control (CH1-8) 8 BAL Control (CH9-12) 9 GROUP, ST Select Switch 10 Channel Fader 11 ST Master Fader 12 MONO Control 13 GROUP 1-4 Faders 14 TO ST Switch | <ul style="list-style-type: none"> 15 SEND AUX 1, AUX 2 Control 16 RETURN AUX 1, AUX 2 Control 17 DIGITAL EFFECTS PROGRAM Select Switch | <ul style="list-style-type: none"> 18 TAPE IN Control 19 ST GRAPHIC EQUALIZER 20 PHONES/MONITOR Output and Meter Select Switch 21 PHONES/MONITOR Volume Control 22 PHONES Jack 23 Level Meter 24 POWER Indicator 25 LAMP Connector |
|---|--|--|

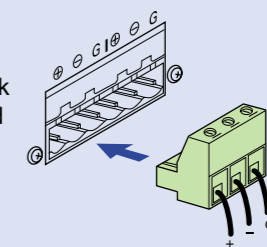
MV12/6 Rear Panel



- | | | |
|---|--|--|
| <ul style="list-style-type: none"> 1 Channel Inputs (CH 1-8) INPUT Jacks XLR Type Euro-block Connectors 2 Stereo Inputs (CH 9-12) RCA Type/Stereo Euro-block Connectors 3 INSERT IN Jacks (CH 1-4) | <ul style="list-style-type: none"> 4 INSERT OUT Jacks (CH 1-4) 5 SEND (AUX 1, AUX 2, EFFECT) Jacks 6 RETURN [L(MONO) R] Jacks 7 TAPE IN (L, R) Jacks 8 REC OUT (L, R) Jacks 9 GROUP OUT (1-4) Jacks Phone Type Euro-Block Connectors | <ul style="list-style-type: none"> 10 ST OUT (L, R) Jacks XLR Type Euro-block Connectors 11 MONO OUT Jack XLR Type Euro-block Connectors 12 MONITOR (L, R) Jacks 13 POWER Switch |
|---|--|--|

Euro-block Connectors

Besides XLR and phone jacks, the MV12/6 is equipped with Euro-block connectors for the main INPUT and OUTPUT jacks to provide greater connectivity with our XM Series Power Amplifiers



Security Cover

The nine threaded holes on the front panel are provided for attaching a security cover (not supplied). Hole locating allows for various cover configurations that protect panel controls and switches from being tampered with.