

MGP16X, MGP12X

Mixing Consoles



MGP16X



Rear Panel



MGP12X



Rear Panel

From the preamps, EQ and effects to the Hybrid Channel functions and iPod/iPhone connectivity—every aspect, every feature, every sound, establishes the MGP as a premium mixing console in a class of its own.

- Studio-grade Discrete Class A “D-PRE” Mic Preamps with an Inverted Darlington Circuit.
- Musical X-pressive EQ based on Yamaha’s famed VCM Technology.
- Professional 1-knob Compressors with LED Indicators.
- High-grade Dual Digital Effects Processors: Advanced REV-X and Classic SPX.
- Stereo Hybrid Channels utilizing a Powerful, Proprietary DSP.
- Digital Connectivity for iPod/iPhone.
- MGP Editor for Detailed Control of the Console's DSP settings via iPod/iPhone.
- Rugged, Impact-resistant, Powder-coated Metal Chassis.
- Integrated Rack-ears for Easy Rack Mounting.
- Internal Universal Power Supply for World-wide Use.

MGP16X, MGP12X

GENERAL SPECIFICATIONS

	MGP16X	MGP12X
Mic inputs	10	6 (100Hz 12dB/oct)
Line inputs	LINE: 8mono+4stereo, CH INSERT: 8, RETURN: 1stereo, 2TR IN: 1 stereo	LINE: 4mono+4stereo, CH INSERT IN: 4, RETURN: 1stereo, 2TR IN: 1 stereo
Mixing channels	16 Line Inputs (8 mono and 4 stereo)	12 Line Inputs (4 mono and 4 stereo)
Group buses	4 GROUP Buses + ST Bus	
AUX buses	2 AUX Sends + 2 FX Sends	
Total harmonic distortion*1	0.02% (20Hz to 20kHz) @ +14dBu	
Frequency response	+0.5/-1.0dB 20Hz-20kHz, refer to the nominal output level @1kHz	
Hum & noise level*2	-128dBu Equivalent Input Noise -102dBu Residual Output Noise	
Crosstalk (@1kHz)	-74dB	
Phantom Power	+48V	
Monaural Input Channel Equalization	HIGH:±15dB (8kHz shelving) MID:±15dB (250Hz-5kHz peaking: CH1-8,13-16) LOW:±15dB (125Hz shelving)	HIGH:±15dB (8kHz shelving) MID:±15dB (250Hz-5kHz peaking: CH1-4,9-12) LOW:±15dB (125Hz shelving)
Stereo Input Channel Equalization	HIGH:±15dB (8kHz shelving) MID:±15dB (2.5kHz peaking: CH9-12) LOW:±15dB (125Hz shelving)	HIGH:±15dB (8kHz shelving) MID:±15dB (2.5kHz peaking: CH5-8) LOW:±15dB (125Hz shelving)
Compressor (COMP)	CH1-8: control x 1 (Gain/Threshold/Ratio)	CH1-4: control x 1 (Gain/Threshold/Ratio)
Internal Digital Effect	FX1: REV-X FX2: SPX	
	8 PROGRAM, PARAMETER control	16 PROGRAM, PARAMETER control
LED Level Meter Pre MONITOR Level	2 x 12points LED meter(PEAK, +10, +6, +3, 0, -3, -6, -10, -15, -20, -25, -30dB) PEAK lights if the signal comes within 3dB of the clipping level.	
Signal indicator	PEAK indicator (red), SIG indicator (green) Peak lights if the signal comes within 3dB of the clipping level.	
USB Audio USB IN/OUT	iPod, iPhone exclusive	
Power requirements	100-240 V 50/60 Hz, auto sensing, IEC input	
Power consumption	55W max	45W max
Dimensions (W x H x D)	447 x 143 x 495 mm (17.6" x 5.6" x 19.5")	348 x 143 x 495 mm (13.7" x 5.6" x 19.5")
Weight	9.0 kg (19.8 lb)	7.5 kg (16.5 lb)

*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.

*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.

ANALOG INPUT SPECIFICATIONS

Input terminal	PAD	GAIN	Actual source impedance	For use with nominal	Input level			Connector
					Sensitivity*	Nominal	Max. before clip	
MONO CH INPUT MGP16X: 1-8 MGP12X: 1-4	0	-60dB	3kΩ	50-600Ω Mics	-80 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Combo jack*
		-16dB			-36 dBu (12.3 mV)	-16 dBu (123 mV)	+4 dBu (1.23 V)	
	26dB	-34dB		600Ω Lines	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	
		+10dB			-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)	
STEREO CH INPUT MGP16X: 9-12 MGP12X: 5-8	0	-60dB	3kΩ	50-600Ω Mics	-80 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type*
		-16dB			-36 dBu (12.3 mV)	-16 dBu (123 mV)	-14 dBu (389 mV)	
	+10dB	-34dB		600Ω Lines	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	
					-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)	
STEREO CH INPUT MGP16X: 13-16 MGP12X: 9-12	-34dB	+10dB	10kΩ	600Ω Lines	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone jack**
MONO CH INSERT IN MGP16X: 1-8 MGP12X: 1-4			10kΩ	600Ω Lines	-20 dBu (77.5 mV)	0 dBu (0.775 V)	+20 dBu (7.75 V)	TRS Phone Jack**
RETURN (L, R)			10kΩ	600Ω Lines	-12 dBu (195 mV)	+4 dBu (1.23 V)	+24 dBu (12.3 V)	Phone Jack**
2TR IN [L,R]			10kΩ	600Ω Lines	-26 dBV (50.1 mV)	-10 dBV (0.316 V)	+10 dBV (3.16 V)	RCA Pin Jack**

ANALOG OUTPUT SPECIFICATIONS

Output terminal	Actual source impedance	For use with nominal	Output Level		Connector
			Nominal	Max. before clip	
ST OUT [L,R]	75Ω	600Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR3-32 type* Phone jack*
GROUP OUT (1-4)	150Ω	10kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone jack*
AUX SEND (1, 2)	75Ω	600Ω Lines	+4 dBu (1.23 V)	+24 dBu (7.75 V)	XLR3-32 type*
FX SEND (1, 2)	150Ω	10kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone jack***
MONO CH INSERT OUT MGP16X: 1-8 MGP12X: 1-4	150Ω	10kΩ Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone jack**
REC OUT [L,R]	600Ω	10kΩ Lines	-10 dBV (0.316 V)	+10 dBV (3.16 V)	RCA Pin Jack**
MONITOR OUT [L,R]	150Ω	10kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone jack***
PHONES OUT	100Ω	40Ω Phones	3mW	75mW	ST Phone Jack**

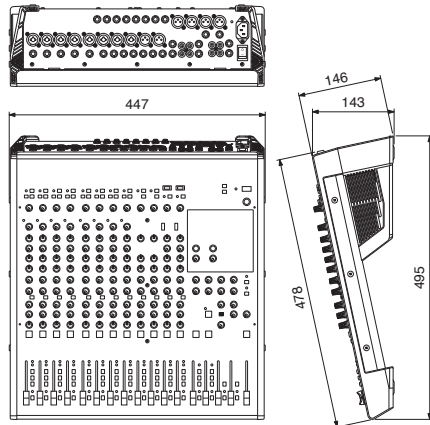
*** Phone jacks are impedance balanced. (Tip=HOT, Ring=COLD, Sleeve=GND)

DIGITAL INPUT SPECIFICATIONS

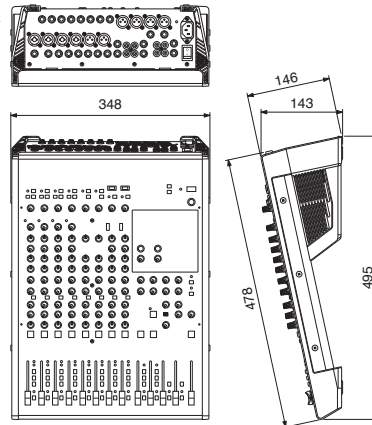
Terminal	Format	Connector
USB IN	iPod, iPhone exclusive	USB A type

DIMENSIONS

MGP16X



MGP12X



unit : mm

