

Overview

MG12XU is a versatile mixer suitable for a wide range of users and applications.





Rear Panel

Features

- Input channels: 12 Line Inputs (4 mono, 4 stereo), 6 Mic Inputs with 48V phantom power and HPH per channel.
- Output channels: 2 ST, 1 MONITOR, 2 AUX sends, 2 GROUP, 1 PHONES.
- Bus: 1 ST, 2 GROUP, 2 AUX (incl.FX)
- Robust, impact-resistant, powder-coated metal chassis.
- Internal universal power supply for worry-free operation around the globe, even in unsteady voltage environment.
- Discrete class A "D-PRE" mic preamps with an inverted darlington circuit.
- Professional "1-knob compressors" with LED indicators.
- Digital effects processors: 24 "SPX" effects
- 24-bit/92kHz 2IN/2OUT USB Audio Interface function.
- Cubase Al access code included for Download on the Steinberg website.
- Cubasis LE available for free download on the App Store.
- MG REC/PLAY available for free download on the App Store.



Specifications 1/2

General Specifications

INPUT CHANNELS	LINE INPUT	12 (4 MONO + 4 STEREO)
	MIC INPUT	6
	MONO INPUT (MIC/LINE)	4 (CH1-4)
	MONO/STEREO INPUT (MIC/LINE)	2 (CH5-8)
	STEREO INPUT (LINE)	2
OUTPUT CHANNELS	STEREO OUT	2
	MONITOR OUT	1
	AUX SEND	2
	GROUP OUT	2
	PHONES OUT	1
BUS	STERE0	1
	GROUP	2
	AUX	2 (incl.FX)
USB AUDIO - USB IN/OUT		Yes (2 IN / 2 OUT, USB Audio Class 2.0 compliant, Sampling Frequency: Max 192kHz, Bit Depth: 24-bit)
PHANTOM POWER		+48V
POWER REQUIREMENTS		100-240V 50Hz/60Hz
POWER SUPPLY TYPE		Internal Universal Power Supply
POWER CONSUMPTION		30W
DIMENSIONS	WxDxH	308mm x 442mm x 118mm (12.1" x 16.6" x 4.6")
NET WEIGHT		4.2kg (9.3lbs)
INCLUDED ACCESSORIES		AC Power Code, Owner's manual, Technical Specifications, Cubase Al Download Information
SOFTWARE APPLICATION	Steinberg CUBASE AI	Yes (Download access code included. Download on the Steinberg web site)
	Steinberg CUBASIS LE	Yes (Download on the App Store) (Apple iPad Camera Connection Kit/Lightening to USB Camera Adapter required)
	MG REC/PLAY (WAV)	Yes (Download on the App Store) (Apple iPhone/iPad Camera Connection Kit/Lightening to USB Camera Adapter required)
OPTIONAL ACCESSORIES		RK-MG12 Rackmount Kit, FC5 Foot Switch
OPERATING TEMPERATURE		0 to 40°C

Featured Functions

D-PRE MIC PREAMP	Yes
1-KNOB COMP	Yes
SPX DIGITAL EFFECTS	Yes (24 programs. REV HALL1 / REV HALL 2 / REV ROOM 1 / REV ROOM 2 / REV STAGE 1 / REV STAGE 2 / REV PLATE /
	DRUM AMB / EARLY REF / GATE REV / SINGLE DLY / DELAY / VOCAL ECHO / KARAOKE / PHASER / FLANGER /
	CHORUS 1 / CHORUS 2 / SYMPHONIC / TREMOLO / AUTO WAH / RADIO VOICE / DISTORTION / PITCH CHANGE)

Electrical Specifications

TOTAL HARMONIC	+14dBu (20Hz to 20kHz)	0.03%	
DISTORTION	Gain knob: Min		
	+24dBu (1kHz)	0.005%	
	Gain knob: Min		
FREQUENCY RESPONSE		+0.5/-1.5dB (20Hz - 48kHz), refer to the nominal output level @1kHz, GAIN knob: Min	
HUM & NOISE LEVEL	Equivalent input noise	-128 dBu (20Hz–20 kHz, Rs: 150Ω, Gain knob: Max)	
	Residual output noise	-102 dBu (STEREO OUT, STEREO master fader: Min)	
CROSSTALK	@ 1kHz	-78dB	
INPUT CHANNEL	PAD	26dB	
FUNCTION	HPH	80Hz, 12dB/oct (Mono/Stereo: MIC only)	
	COMP	1 knob compressor (Gain/Threshold/Ratio)	
		Threshold: +22dBu to -8dBu, Ratio: 1:1 to 4:1	
		Output level: 0dB to 7dB	
		Attack time: approx. 25msec	
		Release time: approx. 300msec	
INPUT CHANNEL EQ	High	±15dB (10kHz shelving)	
	Mid	±15dB (2.5kHz peaking)	
	Low	±15dB (100Hz shelving)	
LED LEVEL METER	Pre Monitor Level	2 x 12 points LED meter (PEAK, +10, +6, +3, 0, -3, -6, -10, -15, -20, -25, -30dB)	
PEAK LED		LED turns on when post EQ signal reaches 3dB below clipping level	



Specifications 2/2

Analog Input Characteristics

INDUT TERMINAL	PAD 26dB	GAIN TRIM	ACTUAL LOAD	FOR USE WITH	INPUT LEVEL			CONNECTOR
INPUT TERMINAL		POSITION II	IMPEDANCE	NOMINAL	Sensitivity*1	Nominal	Max. before clip	CONNECTOR
MIC/LINE 1 – 4	OFF	+64 dB	- 3kΩ	50-600Ω Mics/Lines	-80 dBu (0.077 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Combo jack* ² (Balanced)
		+20 dB			-36 dBu (12.3 mV)	-16 dBu (122.8 mV)	+4 dBu (1.228 V)	
	ON	+38 dB			-54 dBu (1.55 mV)	-34 dBu (15.46 mV)	-14 dBu (154.6 mV)	
		-6 dB			-10 dBu (245 mV)	+10 dBu (2.451 V)	+30 dBu (24.51 V)	
MIC 5/6 – 7/8	-	+64 dB	3kΩ 50-600Ω Mic	50-600Ω	-80 dBu (0.077 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31*3 (Balanced)
		+20 dB		Mic	-36 dBu (12.3 mV)	-16 dBu (122.8 mV)	-6 dBu (388.2mV)	
LINE 5/6 – 7/8	-	+38 dB	1000	10kΩ 600Ω Lines	-54 dBu (1.55 mV)	-34 dBu (15.46 mV)	-14 dBu (154.6 mV)	Phone jack*5 (Unbalanced)
		-6 dB	IUKII		-10 dBu (245 mV)	+10 dBu (2.451 V)	+30 dBu (24.51 V)	
LINE 9/10	-	-	10kΩ	600Ω Lines	-30 dBu (24.5 mV)	-10 dBu (245 mV)	+10 dBu (2.45 V)	Phone jack*5 RCA Pin (Unbalanced)

Analog Output Characteristics

OUTPUT TERMINALS	ACTUAL SOURCE	FOR USE WITH NOMINAL	OUTPUT LEVEL		CONNECTOR
OUTFOT TERIMINALS	IMPEDANCE		Nominal	Max. before clip	CUNNECTUR
STEREO OUT [L, R]	75Ω	600Ω Lines	+4 dBu (1.228 V)	+24 dBu (12.28 V)	XLR-3-32*3 Phone jack*4 (Balanced)
MONITOR OUT [L, R], AUX SEND [1 - 4], GROUP OUT [1 - 4]	150Ω	10kΩ Lines	+4 dBu (1.228 V)	+20 dBu (7.750 V)	Phone jack*4 (Impedance Balanced)
PHONES	110Ω	40Ω Phones	3mW + 3mW	100mW + 100mW	Stereo phone jack

Digital Input/Output Characteristics

OUTPUT TERMINALS	FORMAT	DATA LENGTH	Fs	CONNECTOR
USB	USB Audio Class 2.0	16 / 24bit	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4kHz, 192 kHz	USB Standard-B

0dBu is referenced to 0.775Vrms.

^{*1} Sensitivity is the lowest level that will produce an output of +4dBu (1.228V) or the nominal output level when the unit is set to maximum gain. (All level controls are maximum position.)

^{*2 1&}amp;Sleeve = GND, 2&Tip = HOT, 3&Ring = COLD

^{*3 1 =} GND, 2 = HOT, 3 = COLD

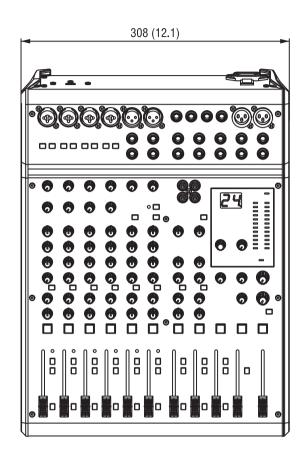
^{*4} Tip = HOT, Ring = COLD, Sleeve = GND

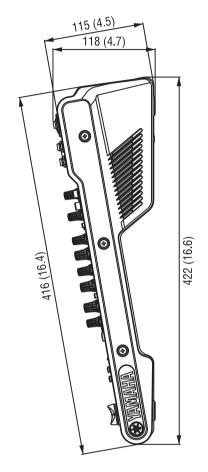
^{*5} Tip = Signal, Sleeve = GND



Dimensions

Unit: mm (inch)





Options

Rackmount KitFoot Switch

RK-MG12 FC5

Software

- MG REC/PLAY
- Steinberg Cubase Al
- Steinberg Cubasis LE

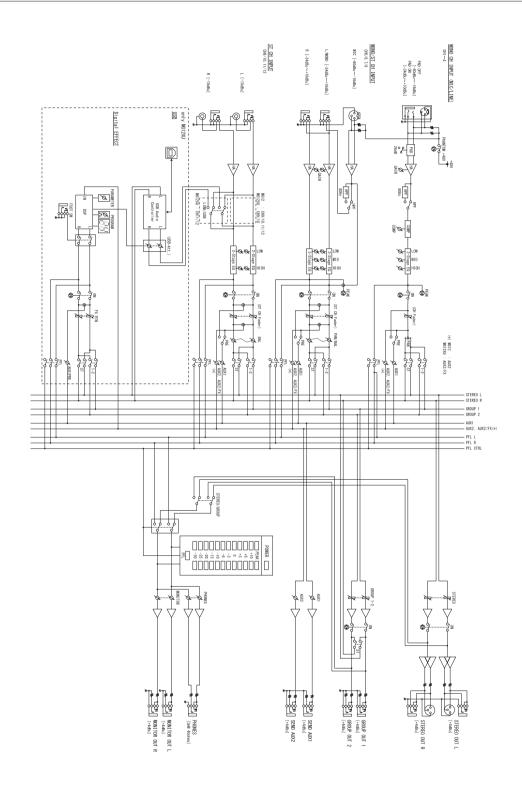


Architectural and Engineering Specifications

The Yamaha MG12XU Mixing Console shall be a versatile 12-channel mixer that is suitable for a wide range of users and applications. The MG12XU shall have 12 line inputs (4 mono, 4 stereo) and 6 microphone inputs with 48-volt phantom power and a high-pass filter for each channel. Two stereo outputs, one monitor output, two auxiliary (effects) sends, two group sends, and one headphone output shall be provided. One stereo bus, two group buses, and two auxiliary (effects) buses shall be provided. The mixing console's microphone preamplifiers shall be discrete class-A "D-PRE" types for high sound quality. Yamaha's 1-knob compressors with LED indicators shall be included for easy compression control. A digital effects processor with 24 high-quality "SPX" effects shall be included to allow creative sound processing. The mixing console shall be equipped with a 24-bit/192-kHz 2-in/2-out USB digital audio interface, and shall be supplied with an access code that will allow Cubase AI music production software to be downloaded from the Steinberg website. Steinberg's Cubasis LE multi-touch sequencer for the iPad and Yamaha's MG Rec&Play recording application for the iPad and iPhone shall be available for download from the App Store at no charge. The mixing console shall be robust and built into an impact-resistant powder-coated metal chassis. The mixing console shall have an internal universal power supply that is capable of powering the unit stably from AC mains voltages around the world. Dimensions shall be 308 (W) x 422 (D) x 118 (H) mm (9.6" x 11.6" x 2.8"). Weight shall be 4.2kg (9.3lbs).



Block Diagrams



*All information subject to change without notice.

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