



YAMAHA CORPORATION P.O.BOX1, Hamamatsu Japan

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Road Tough. Studio Ready. For more than a century, Yamaha has been building a legacy of superior craftsmanship and innovation exemplified in all of our products, from an unrivalled catalog of world-class musical instruments to touring-grade professional audio. Now in its third incarnation, the MG Series embodies this pursuit of design excellence, and incorporates some of the same technologies developed for use in high-end professional consoles, including studio-quality preamps, powerful digital processing, and a rugged, reliable construction. With an intuitive, easy-to-use interface, the MG Series boasts an extensive lineup of compact mixing consoles with models ranging from six to twenty channels, suitable for a diverse range of users and applications. For installed, recording, or live music settings, the solid construction and flexible design of these consoles lets you shape your sound with confidence, continually delivering peak performance and a level of sound quality and reliability unrivalled in its class.

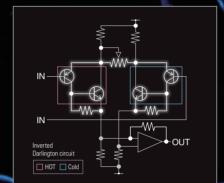
Head of the class

Yamaha has always strived to provide sound engineers with the purest possible signal instead of added processing or color to give it a "signature" sound, and the MG Series is no exception. Embracing this philosophy of transparent sound, these mixing consoles deliver a level of sonic purity and sound quality that is unmatched in their class.

D-PR

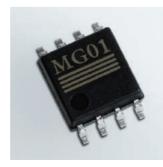
D-PRE Discrete Class-A Mic Preamps

This is where it all starts. Everything you do as a sound engineer is dependent on the quality of your preamps, which determines the direction your mix will take, and ultimately how good it is going to sound. MG Series mixing consoles feature Yamaha's studio-grade discrete class-A D-PRE preamps, which utilize an inverted Darlington circuit comprising two cascading transistors in a configuration that provides more power with lower impedance. Delivering fat, natural sounding bass and smooth, soaring highs, with very low distortion, D-PRE preamps possess an impressively wide frequency range that allow them to handle signal from any audio source without overly amplifying any specific elements of the sound. Having such a pure sonic platform to build on will ultimately save you time and effort by eliminating the need for excessive EQing or additional effects processing in order to "fix" your mix.



High Quality Sound Op-amp

The head amp determines sound quality, and op-amp integrated circuits are one of the most important parts in the head amp circuit. MG Series mixers feature new, high-quality, custom-made MG01 op-amps that we developed in cooperation with the semiconductor manufacturer. Although many other Op-amps prioritize electrical design and efficiency, we worked directly with the semiconductor manufacturer to focus on sound quality first. MG01 op-amps feature redesigned circuitry in which even the internal components and wiring have been optimized, and use materials such as high-quality silicon wafers and copper wire to achieve superb resolution.



Switchable Phantom Power & PAD Switch

With phantom power, MG Series consoles allow you to take full advantage of the greater frequency response and high sound quality of condenser microphones. The input channel with PAD switch accepts MIC to line level of inputs, PAD Switch attenuates high input signals that often accompany mic'ed instruments during performance, avoiding the clipping that can seriously affect your mix.





Our mixer. Your sound.

When was the last time you heard guitar without EQ or a completely unprocessed vocal on one of your favorite songs? Probably never. Yamaha mixers are famous for their flat response and sonic purity, but it often takes more than a perfectly-captured instrumental performance or vocal to achieve a professional-sounding mix. Equipped with some of the same state-of-the-art functionality featured on Yamaha's high-end consoles, the MG Series gives you the tools you need to produce high quality sound that is uniquely your own.



1-knob Compressors

Compression plays an essential role in just about any recording or sound reinforcement environment by altering the level of dynamics of an audio signal when you need livelier guitars, punchier bass lines, a tighter snare, or a cleaner vocal sound. However, it can take countless hours to master the complexities of even the most basic outboard compression units and use them effectively. Originally a Yamaha innovation, 1-knob compressors are now an industry standard that gives you instant access to optimized compression settings via a single rotary control.



EQ and High-pass Filters

There's nothing more useful than reliable equalization when you need nuanced management of your tone. The MG Series benefits from Yamaha's unparalleled experience in designing pro audio gear, featuring 3-band equalizers on all mono channels for precise control of your sound. High-pass filter allows you to eliminate unwanted low-frequency noise, for a smoother, cleaner mix.

AUX / Effect Sends / Group

MG Series mixers feature up to AUX sends for expanding your sound reinforcement or recording setup, allowing you to incorporate additional effects, output to external recording devices, or feed to an monitoring system. Master send controls are also provided. The MG06 / 06X and MG10 / 10XU have a single stereo bus. All other models additionally feature one or two stereo group buses and outputs that can be used for convenient channel grouping. Assign switches for the stereo and group buses are located next to each channel fader.



Built-in SPX Digital Effects

For musical and non-musical applications alike, effects processing adds polish and professionalism to the mix. The MG X / XU models features Yamaha's acclaimed SPX digital multi-effect processor, offering a comprehensive suite of 24 editable digital effects perfect for enhancing your mix, whether adding depth to a speaking engagement or breathing new color and atmosphere into a live band performance. In particular, the high-quality reverb and delay expand the spatial quality of the sound with remarkable realism and naturalness. You can even connect an optional FC5 foot switch for effect on / off control. (MG10XU / 12XU / 16XU / 20XU)

A variety of input / output connectors

All models feature high-quality Neutrik™ balanced XLR connectors on mono microphone/line channels and XLR equipped stereo channels. Each of the mono inputs is equipped with combo jack and accepts both MIC and LINE level signals. Two of the stereo inputs are equipped with XLR and two phone connectors with XLR accepting MIC level signals while two phone connectors accepting LINE level signals and can be used either mono or stereo. (except for 10ch model) The function of another two stereo channel vary depending on model: With 20ch model, XLR accepts MIC level signal and two RCA connectors accepts LINE level signals and can be used either mono or stereo. With 16ch and 12ch models, two phone connectors accept LINE level signals as stereo. Additionally, each of the stereo channel features 2TR in (RCA connectors) and can be used as independent input from external audio sources such as CDs. 10ch is equipped with additional stereo channel with a pair of phone jack that accepts LINE levels. With XU models, any incoming source that are sent via USB can be assigned to one of the stereo channel.

In addition to the main stereo outputs (XLR L/R, TRS phone L/R), MG Series mixing consoles are equipped with a comprehensive suite of output connectors, including GROUP OUT (TRS phone), AUX/FX OUT (TRS phone), MONITOR OUT (TRS phone L/R), and HEADPHONE OUT (stereo phone) connectors, allowing master outputs to be chosen to suit specific applications such as monitoring or mastering.

LED level metering

Easy-to-read LED level metering allows output levels to be monitored with precision.

[MG10XU / MG12XU / MG16XU / MG20XU]

No.	Program	Parameter	No.	Program	Parameter	No.	Program	Parameter
1	REV HALL 1	Reverb Time	9	EARLY REF	Room Size	17	CHORUS 1	LFO* Freq
2	REV HALL 2	Reverb Time	10	GATE REV	Room Size	18	CHORUS 2	LF0* Freq
3	REV ROOM 1	Reverb Time	11	SINGLE DLY	Delay Time	19	SYMPHONIC	LFO* Freq
4	REV ROOM 2	Reverb Time	12	DELAY	Delay Time	20	TREMOLO	LFO* Freq
5	REV STAGE 1	Reverb Time	13	VOCAL ECHO	Delay Time	21	AUTO WAH	LFO* Freq
6	REV STAGE 2	Reverb Time	14	KARAOKE	Delay Time	22	RADIO VOICE	Cutoff Offset
7	REV PLATE	Reverb Time	15	PHASER	LFO* Freq	23	DISTORTION	Drive
8	DRUM AMB	Reverb Time	16	FLANGER	LFO* Freq	24	PITCH CHANGE	Pitch

MG06X features six SPX effects (REVERB HALL / ROOM / PLATE, DELAY SHORT / LONG / VO.ECHO), which are not editable.

"LFO" stands for Low Frequency Oscillator. An LFO is normally used to periodically modulate another signal, using different waveform shapes and modulation speeds

Built to last

For gigging, recording, and installed applications alike, your console can be subjected to a wide range of environmental conditions and hazards. Excessive humidity, unstable power supplies, and the rigors of road travel in general can take a serious toll on a mixing console, often causing expensive, time-consuming repairs, and reducing its lifespan. The MG Series has been redesigned with an emphasis on durability, incorporating practical features that offer greater flexibility while ensuring peak performance for many years to come.



Metal Chassis

Built to last, MG Series mixers feature a rugged, impact-resistant, powder-coated metal chassis, offering an unrivalled level of durability. With a sleek design contoured for optimal convection cooling, the internal layout separates the power supply from the analog circuitry for superior noise reduction, and further extends the life of the components inside. To further ensure reliable performance, knob control placement above the surface of the chassis diverts any impact or pressure on the knobs to the chassis itself and not the circuit board or components underneath.

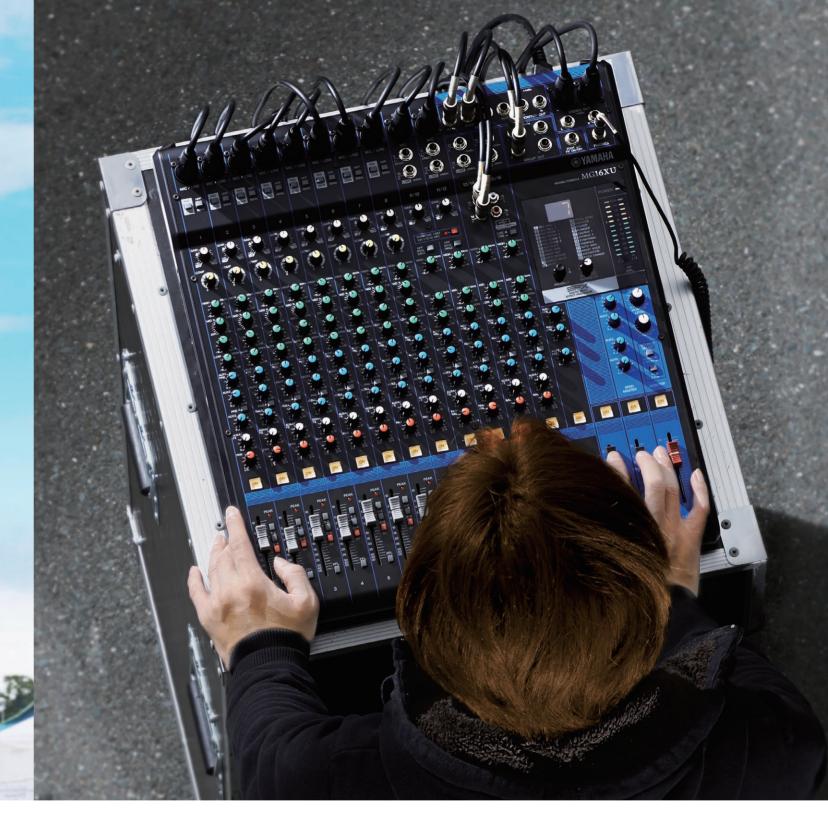




Internal Universal Power Supply (MG12 / 16 / 20 / 12XU / 16XU / 20XU)

Thanks to a highly-efficient internal universal power supply, MG Series consoles offer worry-free operation in any region around the globe—even in environments prone to potentially damaging power fluctuations. An internal power supply also simplifies rack mounting of the console for installed applications, eliminating the need for a bulky adapter or additional connections.





Rack Mount Kit Included (MG16 / 20 / 16XU / 20XU)

Easily adaptable to a diverse range of installed and portable applications, the 16- and 20- channel models of the MG Series included rack ears, giving you the option of a rack-mounted or desk-top configuration. Extremely durable, their sleek design makes safe, stable placement of your console hassle-free, keeping setup time and effort to a minimum.



XLR connector

The main stereo outputs feature XLR type connectors that lock to prevent accidental disconnection. Rugged and dependable, these professional connectors ensure providing stable signal transmission even in the most demanding environments.

Options



Rack Mount Kit RK-MG12 (MG12 / MG12XU)



Mic Stand Adaptor BMS-10A (MG06 / MG06X / MG10 / MG10XU)



(MG10XU / MG12XU / MG16XU / MG20XU)



24-bit/192kHz 2-in/2-out USB Audio Interface Function



MG Series mixing consoles feature flexible digital connectivity for quick and easy high-resolution playback of digital content. Simply connect to your PC via USB, or to your iPhone / iPad (2 or later) using Apple's Camera Connection Kit / Lightning to USB Camera Adapter. The USB protocol uses asynchronous data transfer. Audio data is transferred based on highly precise audio clock signal from the MG, for high quality recording and playback. You can view the latest operating environment at the Yamaha Pro Audio website (URL below).

http://www.yamahaproaudio.com/mg_xu/

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Cubase AI (MG10XU MG12XU MG16XU MG20XU)



MG XU models are bundled with Downloadable Steinberg's Cubase Al software. As one of the most advanced, comprehensive DAW suites available, Steinberg's Cubase has led the charge, providing users with a powerful and flexible platform for music production. Cubase Al offers these same core technologies and interface that have won Cubase worldwide acclaim.



MIXING CONSOLE

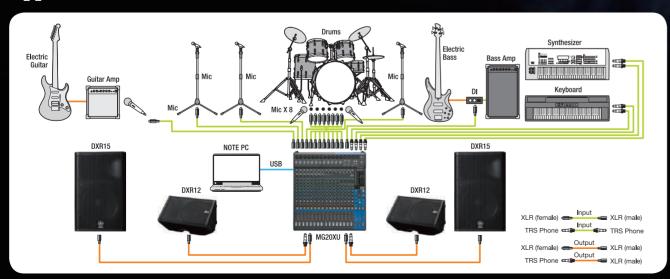
MG Series

MG06 MG10 MG12 MG16 MG20 MG06X MG10XU MG12XU MG16XU MG20XU

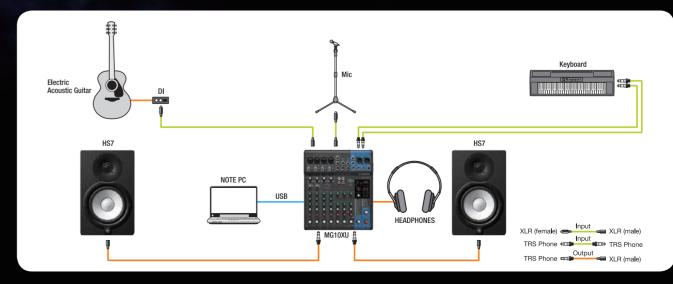
The new MG Series offers a comprehensive lineup of consoles suitable for a wide range of mixing environment. The versatile lineup includes variety of channel configurations, as well as models equipped with SPX effects processors and USB audio interface geared towards live performance and recording, perfect for any application from monitor mixes to seminars to front of house sound reinforcement in smaller venues.



Application



Application



XU models

For a more precise control and enhancement of your sound, XU models of the MG Series come equipped with a suite of Yamaha's renowned SPX effects. Featuring high-resolution Chorus, Flanger, Distortions, Reverb and Delay, all with editable parameters, these are the same multieffects processors used on Yamaha's high-end mixing consoles, giving you the tools you need to elevate your mixes to a higher plane.

MG10XU





MG12XU







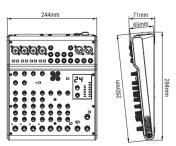


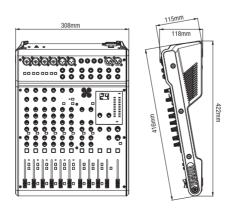
10-Channel Mixing Console

- Max. 4 Mic / 10 Line Inputs (4 mono + 3 stereo)
- 1 Stereo Bus1 AUX (incl. FX)
- "D-PRE" mic preamps with an inverted Darlington circuit
- 1-Knob compressors
- High-grade effects: SPX with 24 programs
- 24-bit / 192kHz 2in / 2out USB Audio functions
- Works with the iPad (2 or later) through the Apple iPad Camera Connection Kit / Lightning to USB Camera Adapter
- Includes Cubase Al DAW software download version
- PAD switch on mono inputs+48V phantom power
- XLR balanced outputs
 Metal chassis

12-Channel Mixing Console

- Max. 6 Mic / 12 Line Inputs (4 mono + 4 stereo)
- 2 GROUP Buses + 1 Stereo Bus2 AUX (incl. FX)
- "D-PRE" mic preamps with an inverted Darlington circuit
- 1-Knob compressors
- High-grade effects: SPX with 24 programs
- 24-bit / 192kHz 2in / 2out USB Audio functions
- Works with the iPad (2 or later) through the Apple iPad Camera Connection Kit / Lightning to USB Camera Adapter
- Includes Cubase Al DAW software download version
- PAD switch on mono inputs
 +48V phantom power
- XLR balanced outputs
 Internal universal power supply for world-wide use
- Optional Rack Mount Kit RK-MG12 Available
 Metal chassis





MG16XU



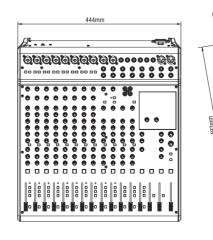






16-Channel Mixing Console

- Max. 10 Mic / 16 Line Inputs (8 mono + 4 stereo)
- 4 GROUP Buses + 1 Stereo Bus4 AUX (incl. FX)
- "D-PRE" mic preamps with an inverted Darlington circuit
- 1-Knob compressors
- High-grade effects: SPX with 24 programs
- 24-bit/192kHz 2in/2out USB Audio functions
- Works with the iPad (2 or later) through the Apple iPad Camera Connection Kit / Lightning to USB Camera Adapter
- Includes Cubase Al DAW software download version
- PAD switch on mono inputs
 +48V phantom power
- XLR balanced outputs
 Internal universal power supply for world-wide use
- Rack Mount Kit Included
 Metal chassis



MG20XU







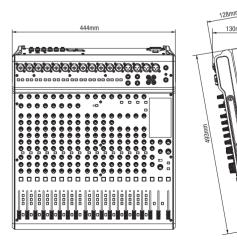






20-Channel Mixing Console

- Max. 16 Mic / 20 Line Inputs (12 mono + 4 stereo)
- 4 GROUP Buses + 1 Stereo Bus4 AUX (incl. FX)
- "D-PRE" mic preamps with an inverted Darlington circuit
- 1-Knob compressors
- High-grade effects: SPX with 24 programs
- 24-bit/192kHz 2in/2out USB Audio functions
- Works with the iPad (2 or later) through the Apple iPad Camera Connection Kit / Lightning to USB Camera Adapter
- Includes Cubase AI DAW software download version
- PAD switch on mono inputs
 +48V phantom power
- XLR balanced outputs
 Internal universal power supply for world-wide use
- Rack Mount Kit Included
 Metal chassis



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Standard Models

The third generation of the acclaimed MG Series, these compact mixing consoles focus on delivering high quality sound for a diverse range of mixing environments. With the same mic preamps as our high-end professional mixers, the MG Series provides serious sound with the reliability and performance this series is renowned for.

MG10





















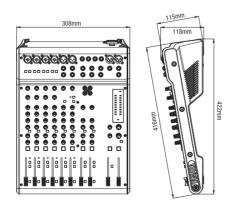
10-Channel Mixing Console

- Max. 4 Mic / 10 Line Inputs (4 mono + 3 stereo)
- 1 Stereo Bus1 AUX (incl. FX)
- "D-PRE" mic preamps with an inverted Darlington circuit
- 1-Knob compressorsPAD switch on mono inputs
- +48V phantom powerXLR balanced outputs
- Metal chassis

12-Channel Mixing Console

- Max. 6 Mic / 12 Line Inputs (4 mono + 4 stereo)
- 2 GROUP Buses + 1 Stereo Bus2 AUX (incl. FX)
- "D-PRE" mic preamps with an inverted Darlington circuit
- 1-Knob compressors
 PAD switch on mono inputs
- +48V phantom powerXLR balanced outputs
- Internal universal power supply for world-wide use
- Optional Rack Mount Kit RK-MG12 Available
 Metal chassis

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16-Channel Mixing Console

- Max. 10 Mic / 16 Line Inputs (8 mono + 4 stereo)
- 4 GROUP Buses + 1 Stereo Bus4 AUX (incl. FX)
- "D-PRE" mic preamps with an inverted Darlington circuit
- 1-Knob compressorsPAD switch on mono inputs
- +48V phantom powerXLR balanced outputs
- Internal universal power supply for world-wide use
- Rack Mount Kit Included
 Metal chassis



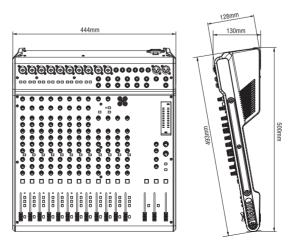


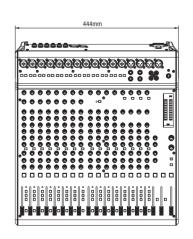




20-Channel Mixing Console

- Max. 16 Mic / 20 Line Inputs (12 mono + 4 stereo)
- 4 GROUP Buses + 1 Stereo Bus4 AUX (incl. FX)
- "D-PRE" mic preamps with an inverted Darlington circuit
- 1-Knob compressors PAD switch on mono inputs
- +48V phantom power XLR balanced outputs
- Internal universal power supply for world-wide use
- Rack Mount Kit IncludedMetal chassis





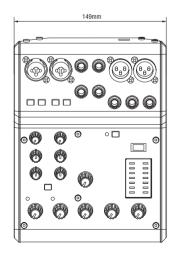
MG06/MG06X

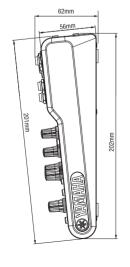




6-Channel Mixing Console

- Max. 2 Mic / 6 Line Inputs (2 mono + 2 stereo)
- 1 Stereo Bus
- "D-PRE" mic preamps with an inverted Darlington circuit
- XLR balanced outputs
- PAD switch on mono inputs
 +48V phantom power
- Metal chassis











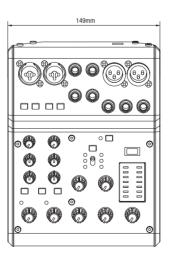


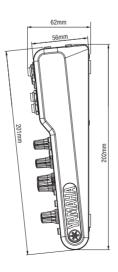


6-Channel Mixing Console

- Max. 2 Mic / 6 Line Inputs (2 mono + 2 stereo)
- 1 Stereo Bus
 "D-PRE" mic preamps with an inverted Darlington circuit
 High-grade effects: SPX with 6 programs
 XLR balanced outputs
 PAD switch on mono inputs

- +48V phantom power Metal chassis







MG Series Specifications

General Specifications

		MG20XU / MG20	MG16XU / MG16	MG12XU / MG12					
Frequency Response	Input to STEREO OUT	+0.5 dB/-1.5 dB (20 Hz to	48 kHz) , refer to the nominal output level	@ 1 kHz, GAIN knob: Min					
Total harmonic distortion (THD+N)	Input to STEREO OUT		% @ +14dBu (20 Hz to 20kHz), GAIN knob % @ +24dBu (1kHz), GAIN knob: Min	: Min					
Hum&Noise *1	Equivalent Input Noise	-128 dBı	ı (Mono Input Channel, Rs: 150Ω, GAIN kn	ob: Max)					
(20 Hz to 20 kHz)	Residual Output Noise	-102 dBu (STEREO OUT, STEREO master fader: Min)							
Crosstalk(1 kHz) *2		-78 dB							
	Mono[MIC/LINE]	12	8	4					
nput channels	Mono/Stereo[MIC/LINE]	4	2	2					
	Stereo[LINE]	0	2	2					
	STEREO OUT		2						
	MONITOR OUT		1						
Output channels	PHONES		1						
	AUX SEND	4	4	2					
	GROUP OUT	4	4	2					
Bus		Stereo: 1, GROUP: 4, AUX: 4 (MG20XU: incl. FX)	Stereo: 1, GROUP: 4, AUX: 4 (MG16XU: incl. FX)	Stereo: 1, GROUP: 2, AUX: 2 (MG12XU: incl. FX)					
	PAD (Mono)		26 dB						
	HPF (Mono, Mono/Stereo)		80 Hz, 12 dB/oct (Mono/Stereo: MIC only)						
	COMP (Mono)	1-knob compressor (Gain/Threshold/Ratio) Threshold: +22 dBu to -8 dBu, Ratio: 1:1 to 4:1, Output level: 0 dB to 7 dB Attack time: approx. 25 msec, Release time: approx. 300 msec							
	EQ	HIGH: Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving							
		MID: Gain: +15 dB/-15 dB, Frequer Stereo 2.5 l	MID: Gain: +15 dB/-15 dB, Frequency: 2.5 kHz peaking						
		LOW: (shelving						
	PEAK LED (Mono)	LED turns	on when post EQ signal reaches 3 dB belo	w clipping					
evel Meter	Pre Monitor LEVEL	2x12 -segment LED	meter [PEAK, +10, +6, +3, 0, -3, -6, -10, -	15, -20, -25, -30 dB]					
nternal Digital Effect XU Models)	SPX algorithm	24 programs	, PARAMETER control:1, F00T SW:1 (FX R	TN CH on/off)					
USB Audio (XU Models)	2 IN / 2 OUT	Samp	USB Audio Class 2.0 compliant oling Frequency: Max 192 kHz, Bit Depth: 2	24-bit					
Phantom Power Voltage			+48 V						
Power Requirements			AC 100 – 240 V, 50 / 60 Hz						
Power Consumption		36 W	30 W	22 W					
Dimensions (W x H x D)		444 mm x 130 mm x 500 mm (17.5" x 5.1" x 19.7")	444 mm x 130 mm x 500 mm (17.5" x 5.1" x 19.7")	308 mm x 118 mm x 422 mm (9.6" x 2.8" x 11.6")					
Net Weight		MG20XU:7.1kg (15.7 lbs.) MG20: 6.9kg (15.2 lbs.)	MG16XU:6.8 kg (15.0 lbs.) MG16: 6.6 kg (14.6 lbs.)	MG12XU:4.2 kg (9.3 lbs.) MG12:4.0 kg (8.8 lbs.)					
ncluded Accessory		Owner's Manual, Technical Specifications, AC power cord, Cubase Al Download Information (XU Models) Rack-mount kit (MG20XU, MG20, MG16XU, MG16)							
ptional Accessory		Rack-mount kit: RK-MG12 (for MG12XU, MG12), Foot Switch: FC5 (XU Models)							
Operating Temperature		0 to +40°C							

0 dBu = 0.775 Vrms Output impedance of signal generator (Rs) = 150Ω All level controls are nominal if not specified.

		MG10XU / MG10	MG06X / MG06				
Frequency Response	Input to STEREO OUT	+0.5 dB/-1.0 dB (20 Hz to 48 kHz) , refer to the nominal output level @ 1 kHz, GAIN knob: Min	+0.5 dB/-0.5 dB (20 Hz to 20 kHz) , refer to the nominal output level @ 1 kHz, GAIN knob: Min				
Total harmonic distortion (THD+N)	Input to STEREO OUT	0.02 % @ +14dBu (20 Hz to 20kHz), GAIN knob: Min 0.003 % @ +24dBu (1kHz), GAIN knob: Min	0.01 % @ +8dBu (20 Hz to 20kHz), GAIN knob: Min 0.003 % @ +18dBu (1kHz), GAIN knob: Min				
Hum&Noise *1	Equivalent Input Noise	-128 dBu (Mono Input Channe	el, Rs: 150Ω, GAIN knob: Max)				
(20 Hz to 20 kHz)	Residual Output Noise	-102 dBu (STEREO OUT, S	TEREO LEVEL knob: Min)				
Crosstalk(1 kHz) *2		-83 dB	-88 dB				
nput channels		10 channels: Mono [MIC/LINE]: 4, Stereo[LINE]: 3	6 channels: Mono [MIC/LINE]: 2, Stereo[LINE]: 2				
Output channels		STEREO OUT: 2, PHONES: 1, MONITOR OUT: 1, AUX[FX] SEND: 1	STEREO OUT: 2, PHONES: 1				
Bus		Stereo: 1, AUX[FX], 1	Stereo: 1				
	PAD (Mono)	26 dB	26 dB				
	HPF (Mono)	80 Hz, 12 dB/oct	80 Hz, 12 dB/oct				
	СОМР	1-knob compressor Threshold: +22 dBu to -8 dBu, Ratio: 1:1 to 4:1, Output level: 0 dB to 7 dB Attack time: approx. 25 msec, Release time: approx. 300 msec					
nput Channel Function	EQ HIGH	Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving	(Mono) Gain: +15 dB/-15 dB, Frequency: 10 kHz shelvin				
	EQ MID	Gain: +15 dB/-15 dB, Frequency: 2.5kHz peaking	_				
	EQ LOW	Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving	(Mono) Gain: +15 dB/-15 dB, Frequency: 100 Hz shelvir				
	PEAK LED (Mono)	LED turns on when post EQ signal reaches 3 dB below clipping	LED turns on when post EQ signal reaches 3 dB below clipping				
Level Meter	Post STEREO LEVEL knob	2 x 7 -segment LED meter [PEAK, +10, +6, 0, -6, -10, -20 dB]	2 x 7 -segment LED meter [PEAK, +6, +3, 0, -3, -10, -20 dB]				
Internal Digital Effect	SPX algorithm	24 programs (MG10XU)	6 programs (MG06X)				
USB Audio (MG10XU)	2 IN / 2 OUT	USB Audio Class 2.0 compliant Sampling Frequency: Max 192 kHz, Bit Depth: 24-bit (MG10XU)	_				
Phantom Power Voltage		+48 V	+48 V				
Power Supply adaptor		PA-10 (AC 38 VCT, 0.62A, Cable length = 3.6 m) or equivalent recommended by Yamaha	PA-130 (DC12 V/1.0 A, Cable length = 1.8 m), 120 V, 60 Hz MU18 (DC12 V/1.5 A, Cable length = 1.5 m), 100 V-240 V, 50 Hz/60 Hz or equivalent recommended by Yamaha				
Power Consumption		22.9 W	12 W				
Dimensions (W×H×D)		244 mm x 71 mm x 294 mm (9.6"x 2.8"x 11.6")	149 mm x 62 mm x 202 mm (5.9"x 2.4"x 7.9")				
Net Weight		MG10XU: 2.1 kg (4.63 lbs.), MG10: 1.9 kg (4.19 lbs.)	MG06X: 0.9 kg (1.98 lbs.), MG06: 0.9 kg (1.98 lbs.)				
included Accessory		AC Adaptor, Owner's Manual, Cubase Al Download Information (MG10XU), Technical Specifications	AC Adaptor, Owner's Manual, Technical Specifications				
Optional Accessory		Mic Stand Adaptor: BMS-10A, Foot Switch: FC5 (MG10XU)					
Operating Temperature		0 to +40°C					

0 dBu = 0.775 Vrms Output impedance of signal generator (Rs) = 150Ω All level knobs are nominal if not specified.

 $^{^{*}1\ \}text{Noise is measured with A-weighting filter.}\ \ ^{*}2\ \text{Crosstalk is measured with 1 kHz band pass filter.}$

^{*1} Noise is measured with A-weighting filter. *2 Crosstalk is measured with 1 kHz band pass filter.

MG20 / MG20XU Analog Input Characteristics

Input	PAD	GAIN Trim	Actual Load	For Use With		Input level		Connector
Jacks	26 dB	Position	Impedance	Nominal	Sensitivity *1	Nominal	Max. before clip	Connector
	OFF	+64 dB			-80 dBu (0.077 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	
MIC/LINE		+20 dB	3kΩ	50-600Ω	-36 dBu (12. 3 mV)	-16 dBu (122.8 mV)	+4 dBu (1.228 V)	Combo jack*2 (Balanced)
1 – 12	ON	+38 dB	3852	Mics/Lines	-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 13/14 -		+64 dB	3kΩ	50-600Ω Mic	-80 dBu (0.077 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 *3 (Balanced)
19/20	-	+20 dB	3K\$2		-36 dBu (12. 3 mV)	-16 dBu (122.8 mV)	+4 dBu (1.228 V)	
LINE 13/14 –		+38 dB	10kΩ	600Ω	-54 dBu (1.55 mV)	-34 dBu (15.46 mV)	-14 dBu (154.6 mV)	Phone jack *5 (Unbalanced)
15/16		-6 dB	TUK\$2	Lines	-10 dBu (245 mV)	+10 dBu (2.451 V)	+30 dBu (24.51 V)	
LINE		+38 dB	10kΩ	600Ω	-54 dBu (1.55 mV)	-34 dBu (15.46 mV)	-14 dBu (154.6 mV)	RCA Pin (Unbalanced)
17/18 – 19/20	-	-6 dB	10852	Lines	-10 dBu (245 mV)	+10 dBu (2.451 V)	+30 dBu (24.51 V)	

MG20 / MG20XU Analog Output Characteristics

Output Tarminala	Actual Source	For Use With	Outpu	Connector		
Output Terminals	Impedance	Nominal	Nominal	Max. before clip	Connector	
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] GROUP OUT [1 - 4] AUX SEND [1 - 4]	150Ω	10kΩ Lines	+4 dBu (1.228 V)	+20 dBu (7.750 V)	Phone jack *4 (Impedance Bal- anced)	
PHONES	110Ω	40Ω Phones	3 mW + 3 mW	100 mW + 100 mW	Stereo phone jack	

MG16 / MG16XU Analog Input Characteristics

t	PAD	GAIN Trim	Actual	For Use		Input level		
Input Jacks	26 dB	Position	Load Impedance	With Nominal	Sensitivity *1	Nominal	Max. before clip	Connector
	OFF	+64 dB		50-600Ω Mics/Lines	-80 dBu (0.077 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Combo jack *2 (Balanced)
MIC/LINE 1 – 8		+20 dB	3kΩ		-36 dBu (12. 3 mV)	-16 dBu (122.8 mV)	+4 dBu (1.228 V)	
	ON	+38 dB	3K <u>12</u>		-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 9/10.		+64 dB	3kΩ	50-600Ω Mic	-80 dBu (0.077 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 *3 (Balanced)
11/12	_	+20 dB			-36 dBu (12. 3 mV)	-16 dBu (122.8 mV)	+4 dBu (1.228 V)	
LINE		+38 dB	10kΩ	600Ω	-54 dBu (1.55 mV)	-34 dBu (15.46 mV)	-14 dBu (154.6 mV)	Phone jack *5 (Unbalanced)
9/10, 11/12	_	-6 dB	10852	Lines	-10 dBu (245 mV)	+10 dBu (2.451 V)	+30 dBu (24.51 V)	
LINE 13/14 – 15/16	-	-	10kΩ	600Ω Lines	-30 dBu (24.5 mV)	-10 dBu (245 mV)	+10 dBu (2.45 V)	Phone jack *5 RCA Pin (Unbalanced)

MG16 / MG16XU Analog Output Characteristics

	•					
0.1.17	Actual	For Use With	Outpu			
Output Terminals	Source Impedance	Nominal	Nominal	Max. before clip	Connector	
STEREO OUT [L, R]	75Ω	600Ω Lines	+4 dBu (1.228 V)	+24 dBu (12.28 V)	XLR-3-32 *3 Phone jack *5 (Balanced)	
MONITOR OUT [L, R] GROUP OUT [1 - 4] AUX SEND [1 - 4]	150Ω	10kΩ Lines	+4 dBu (1.228 V)	+20 dBu (7.750 V)	Phone jack *4 (Impedance Bal- anced)	
PHONES	110Ω	40Ω Phones	3 mW + 3 mW	100 mW + 100 mW	Stereo phone jack	

Digital Input / Output Characteristics (XU Models)

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

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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&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

MG12 / MG12XU Analog Input Characteristics

	Input	PAD	GAIN Trim	Actual Load	For Use With	h Input level			Connector
	Jacks	26 dB	Position	Impedance	Nominal	Sensitivity *1	Nominal	Max. before clip	Connector
		OFF	+64 dB			-80 dBu (0.077 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	
	MIC/LINE	011	+20 dB	3kΩ	50-600Ω	-36 dBu (12.3 mV)	-16 dBu (122.8 mV)	+4 dBu (1.228V)	Combo jack*2 (Balanced)
1	1 – 4	ON	+38 dB	JR42	Mics/Lines	-54 dBu (1.55 mV)	-34 dBu (15.46 mV)	-14 dBu (154.6 mV)	
		UN	-6 dB			-10 dBu (245 mV)	+10 dBu (2.451 V)	+30 dBu (24.51 V)	
	MIC		+64 dB	3kQ	50-600Ω Mic	-80 dBu (0.077 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 *3 (Balanced)
	5/6, 7/8		+20 dB	3K52		-36 dBu (12. 3 mV)	-16 dBu (122.8 mV)	+4 dBu (1.228 V)	
	LINE	F	+38 dB	10kΩ	600Ω	-54 dBu (1.55 mV)	-34 dBu (15.46 mV)	-14 dBu (154.6 mV)	Phone jack *5
	5/6, 7/8	_	-6 dB	10852	Lines	-10 dBu (245 mV)	+10 dBu (2.451 V)	+30 dBu (24.51 V)	(Unbalanced)
	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)
									,

MG12 / MG12XU Analog Output Characteristics

	Actual	For Use With	Outpu	0	
Output Terminals	Source Impedance	Nominal	Nominal	Max. before clip	Connector
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] GROUP OUT [1, 2] AUX SEND [1, 2]	150Ω	10kΩ Lines	+4 dBu (1.228 V)	+20 dBu (7.750 V)	Phone jack *4 (Impedance Bal- anced)
PHONES	110Ω	40Ω Phones	3 mW + 3 mW	100 mW + 100 mW	Stereo phone jack

MG10 / MG10XU Analog Input Characteristics

	Input	PAD	GAIN Trim	Actual Load	For Use With		Input level		0
	Jacks	26 dB	Position	Impedance	Nominal	Sensitivity *1	Nominal	Max. before clip	Connector
		OFF	+64 dB	3kΩ	50-600Ω Mics/Lines	-72 dBu (0.195 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Combo jack *2 (Balanced)
N	MIC/LINE		+20 dB			-28 dBu (30.9 mV)	-16 dBu (122.8 mV)	+4 dBu (1.228V)	
	1 – 4	ON	+38 dB			-46 dBu (3.884 mV)	-34 dBu (15.46 mV)	-14 dBu (154.6 mV)	
			-6 dB			-2 dBu (615.6 mV)	+10 dBu (2.451 V)	+30 dBu (24.51 V)	
	LINE 5/6, 7/8			10kΩ	600Ω	-22 dBu	-10 dBu	+10 dBu	Phone jack *5 RCA Pin (Unbalanced)
	LINE 9/10	_		10852	Lines	(61.56 mV)	(245.1 mV)	(2.451 V)	Phone jack*5 (Unbalanced)

MG10 / MG10XU Analog Output Characteristics

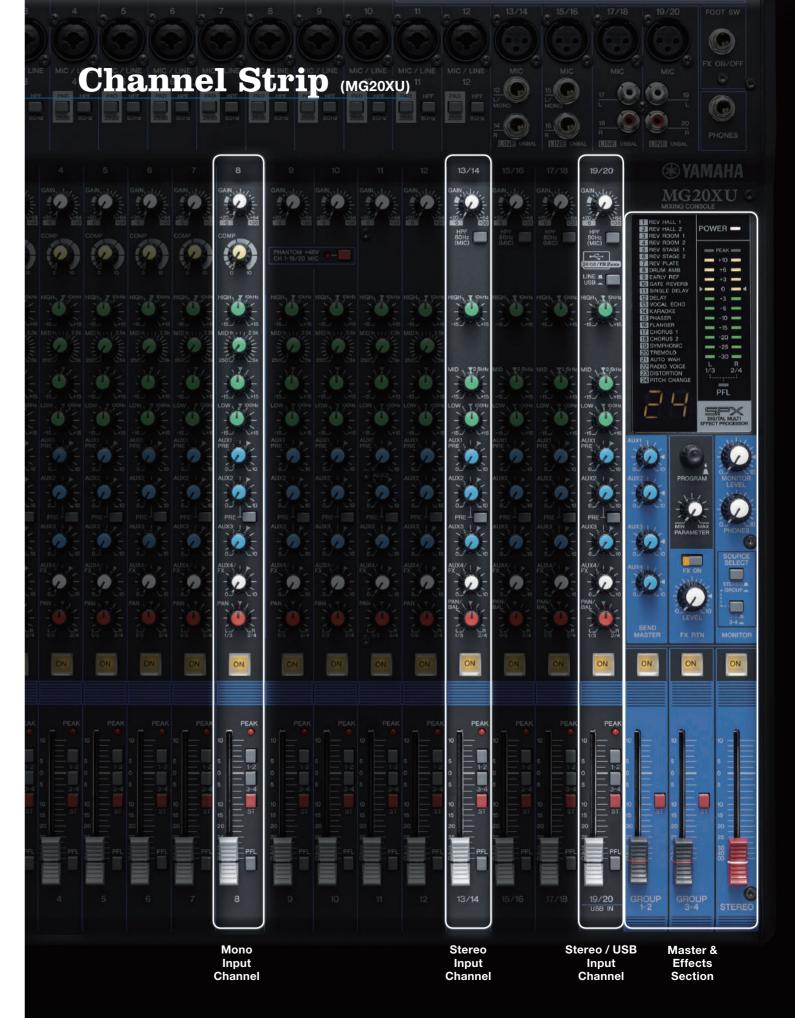
Output Terminals	Actual Source	For Use With	Outpu	Connector	
	Impedance	Nominal	Nominal	Max. before clip	Connector
STEREO OUT [L, R]	75Ω	600Ω Lines +20 dB	+4 dBu (1.228 V)	+24 dBu (12.28 V)	XLR-3-32 *3 Phone jack *5 (Balanced)
MONITOR OUT [L, R] AUX[FX] SEND	150Ω	10kΩ Lines	+4 dBu (1.228 V)	+20 dBu (7.750 V)	Phone jack *4 (Impedance Bal- anced)
PHONES	110Ω	40Ω Phones	3 mW + 3 mW	100 mW + 100 mW	Stereo phone jack

MG06 / MG06X Analog Input Characteristics

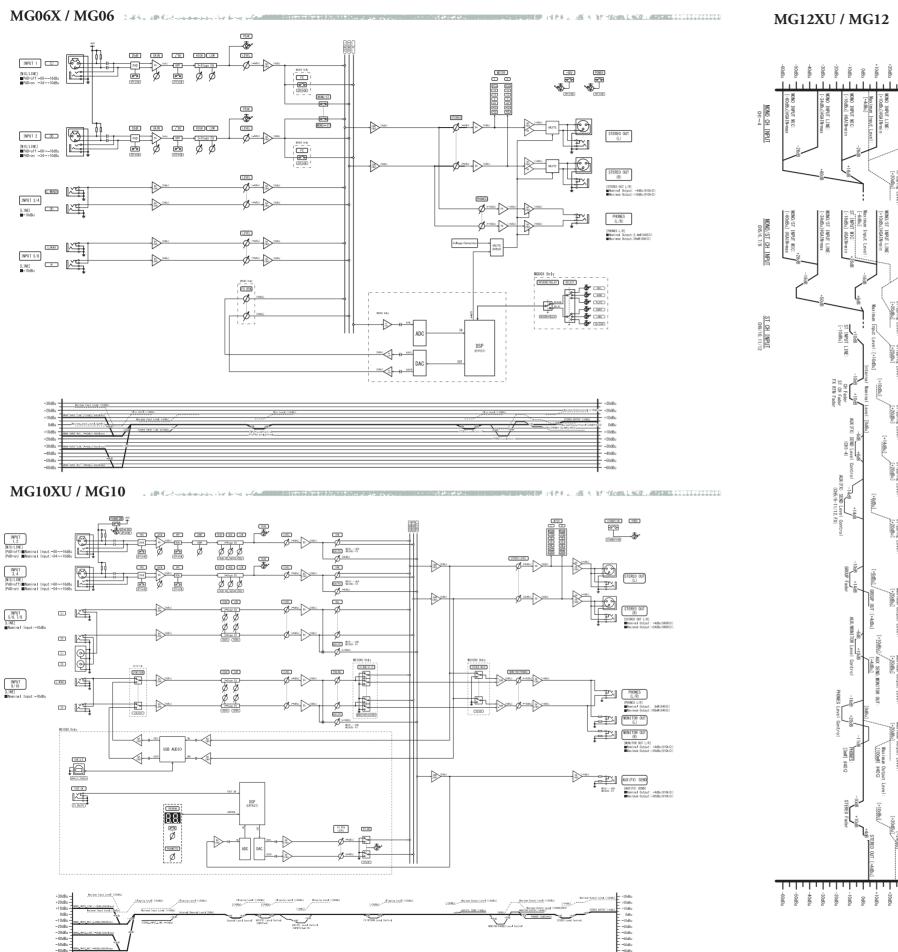
Input	PAD 26 dB	GAIN Trim Position	Actual Load Impedance	For Use With Nominal	Input level			Connector
Jacks					Sensitivity *1	Nominal	Max. before clip	COIIIICCIOI
MIC/LINE 1/L, 2/R	OFF	+64 dB	- 3kΩ	50-600Ω Mics/Lines	-72 dBu (0.195 mV)	-60 dBu (0.775 mV)	-46 dBu (3.884 mV)	Combo jack *2 (Balanced)
		+20 dB			-28 dBu (30.9 mV)	-16 dBu (122.8 mV)	-2 dBu (615.6 mV)	
	ON	+38 dB			-46 dBu (3.884 mV)	-34 dBu (15.46 mV)	-20 dBu (77.5 mV)	
		-6 dB			-2 dBu (615.6 mV)	+10 dBu (2.451 V)	+24 dBu (12.283 V)	
LINE 3/4, 5/6	-	1	10kΩ	600Ω Lines	-22 dBu (61.56 mV)	-10 dBu (245.1 mV)	+4 dBu (1.228 V)	Phone jack *5 (Unbalanced)

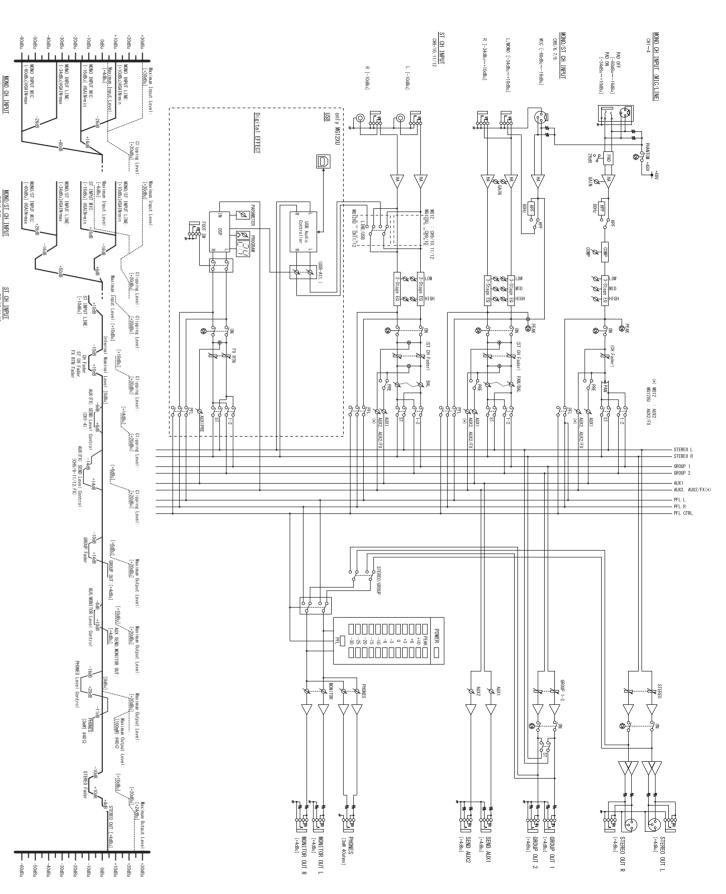
MG06 / MG06X Analog Output Characteristics

Output Terminals	Actual Source	For Use With	Outpu	Connector	
Output Terrininais	Impedance	Nominal	Nominal	Max. before clip	Connector
STEREO OUT [L, R]	75Ω	10kΩ Lines	+4 dBu (1.228 V)	+18 dBu (6.156 V)	XLR-3-32 *3 Phone jack *4 (Balanced)
PHONES	33Ω	40Ω Phones	2.4 mW + 2.4 mW	24 mW + 24 mW	Stereo phone jack



Block & Level Diagram





MG16XU / MG16

MG20XU / MG20

