



ZJ12600

MIXING CONSOLE

MG10XU

MG10

# Technical Specifications

## General Specifications

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

<b>Frequency Response</b>	<b>Input to STEREO OUT</b>	+0.5 dB/-1.0 dB (20 Hz to 48 kHz), refer to the nominal output level @1 kHz, GAIN knob: Min		
<b>Total Harmonic Distortion (THD+N)</b>	<b>Input to STEREO OUT</b>	0.02 % @ +14 dBu (20 Hz to 20 kHz), GAIN knob: Min 0.003 % @ +24 dBu (1 kHz), GAIN knob: Min		
<b>Hum&amp;Noise *1 (20 Hz to 20 kHz)</b>	<b>Equivalent Input Noise</b>	-128 dBu (Mono Input Channel, Rs: 150 Ω, GAIN knob: Max)		
	<b>Residual Output Noise</b>	-102 dBu (STEREO OUT, STEREO LEVEL knob: Min)		
<b>Crosstalk (1 kHz) *2</b>		-83 dB		
<b>Input Channels</b>		10 channels: Mono [MIC/LINE]: 4, Stereo [LINE]: 3		
<b>Ouput Channels</b>		STEREO OUT: 2, PHONES: 1, MONITOR OUT: 1, AUX (FX) SEND: 1		
<b>Bus</b>		Stereo: 1, AUX (FX): 1		
<b>Input Channel Function</b>	<b>PAD</b>	CH1 – CH4	26 dB	
	<b>HPF</b>	CH1 – CH4	80 Hz, 12 dB/oct	
	<b>COMP</b>	CH1 – CH2	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	
	<b>EQ</b>	CH1 – CH9/10	HIGH: Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving	
		CH1 – CH4	MID: Gain: +15 dB/-15 dB, Frequency: 2.5 kHz peaking	
		CH1 – CH9/10	LOW: Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving	
<b>PEAK LED</b>	CH1 – CH4	LED turns on when post EQ signal reaches 3 dB below clipping (+17 dBu)		
<b>Level Meter</b>	<b>Post STEREO LEVEL Knob</b>	2x7 -segment LED meter [PEAK (+17), +10, +6, 0, -6, -10, -20 dB]		
<b>Internal Digital Effect (MG10XU)</b>	<b>SPX Algorithm</b>	24 programs		
<b>USB Audio (MG10XU)</b>	<b>2 IN / 2 OUT</b>	USB Audio Class 2.0 compliant Sampling Frequency: Max 192 kHz, Bit Depth: 24-bit		
<b>Phantom Power Voltage</b>		+48 V		
<b>Power Supply Adaptor</b>		PA-10 (AC 38 VCT, 0.62A, Cable length = 3.6 m) or equivalent recommended by Yamaha		
<b>Power Consumption</b>		22.9 W		
<b>Dimensions (WxHxD)</b>		244 mmx71 mmx294 mm (9.6" x 2.8" x 11.6")		
<b>Net Weight</b>		MG10XU: 2.1 kg (4.6 lbs.), MG10: 1.9 kg (4.1 lbs.)		
<b>Included Accessory</b>		AC Adaptor, Cubase AI Download Information (MG10XU), Owner's Manual, Precautions, Technical Specifications (this leaflet)		
<b>Optional Accessory</b>		Mic Stand Adaptor: BMS-10A		
<b>Operating Temperature</b>		0 to +40°C		

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

## Analog Input Characteristics

Input Jacks	PAD 26 dB	GAIN Trim Position	Actual Load Impedance	For Use With Nominal	Input level			Connector
					Sensitivity *1	Nominal	Max. before clip	
MIC/LINE 1 – 4	OFF	+64 dB	3 kΩ	50-600 Ω Mics/Lines	-72 dBu (0.195 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Combo jack*2 (Balanced)
		+20 dB			-28 dBu (30.9 mV)	-16 dBu (122.8 mV)	+4 dBu (1.228 mV)	
	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	-	-	10 kΩ	600 Ω Lines	-22 dBu (61.56 mV)	-10 dBu (245.1 mV)	+10 dBu (2.451 V)	Phone jack *3 RCA Pin (Unbalanced)
LINE 9/10								Phone jack *3 (Unbalanced)

0 dBu is referenced to 0.775 Vrms.

\*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 knobs are maximum position).

\*2 1&Sleeve = Ground, 2&Tip = Hot, 3&Ring = Cold

\*3 Tip = Signal, Sleeve = Ground

## Analog Output Characteristics

Output Terminals	Actual Source Impedance	For Use With Nominal	Output level		Connector
			Nominal	Max. before clip	
STEREO OUT [L, R]	75 Ω	600 Ω Lines	+4 dBu (1.228 V)	+24 dBu (12.28 V)	XLR-3-32 *1 Phone jack *2 (Balanced)
MONITOR OUT [L, R] AUX (FX) SEND	150 Ω	10 kΩ Lines	+4 dBu (1.228 V)	+20 dBu (7.750 V)	Phone jack *2 (Impedance Balanced)
PHONES	110 Ω	40 Ω Lines	3 mW + 3 mW	100 mW + 100 mW	Stereo phone jack

0 dBu is referenced to 0.775 Vrms.

\*1 1 = Ground, 2 = Hot, 3 = Cold

\*2 Tip = Hot, Ring = Cold, Sleeve = Ground

## Digital Input / Output Characteristics

Output Terminals	Format	Data Length*1	Fs	Connector
USB	USB Audio Class 2.0	16 / 24 bit	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz	USB Standard-B

\*1 Data length depends on the particular audio format being used. USB Audio Class2.0: 16 / 24-bit, Yamaha Steinberg USB Driver: 24-bit

European Models

Inrush Current based on EN 55103-1:2009

1 A (on initial switch-on)

1 A (after a supply interruption of 5s)

Conforms to Environments: E1, E2, E3 and E4

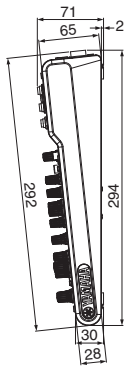
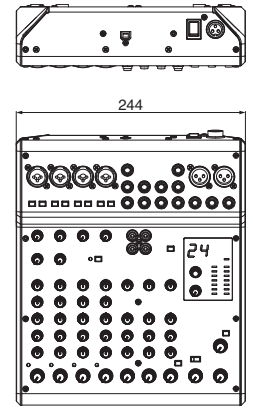
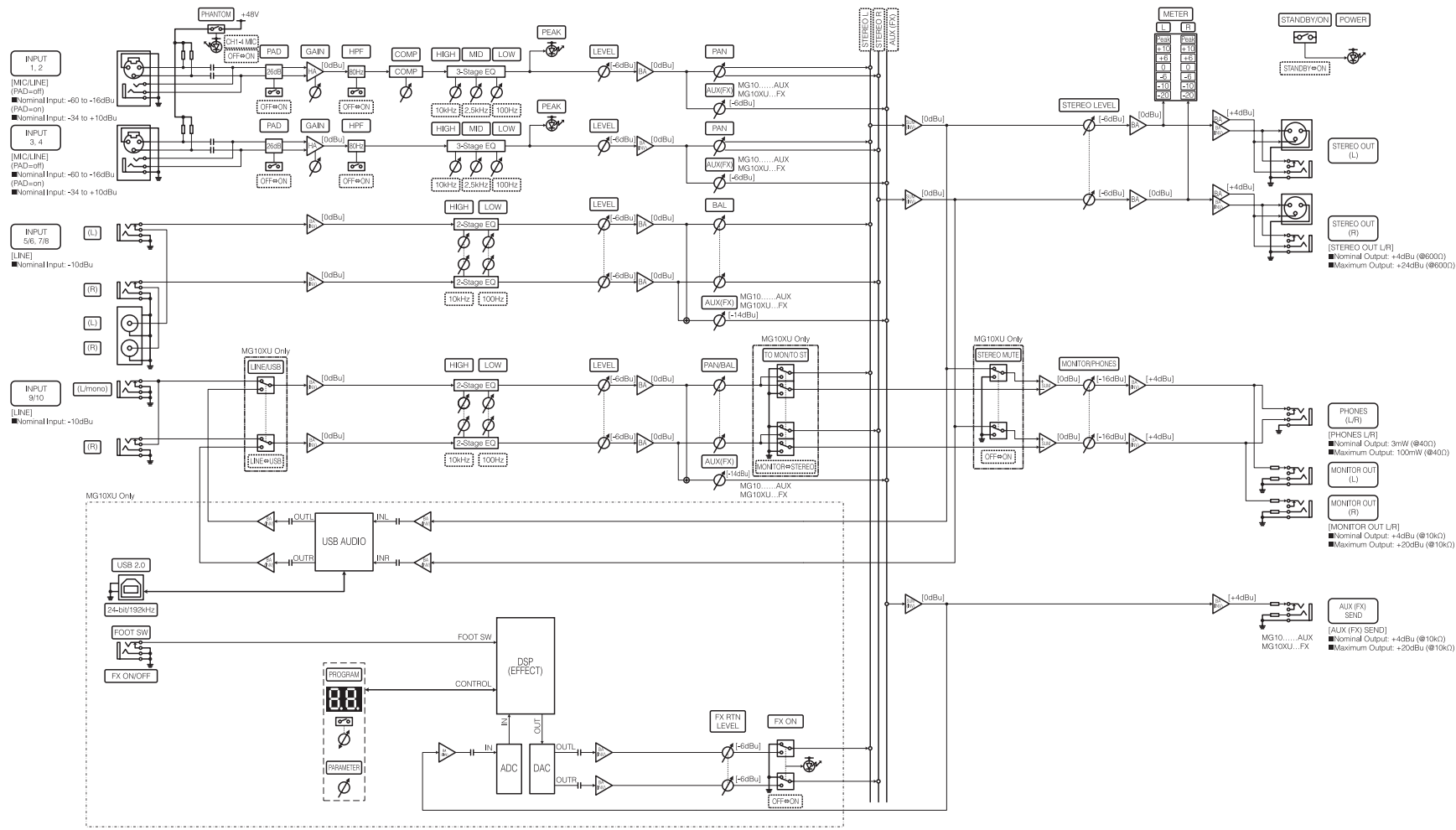
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See reverse side for block/level diagrams and dimensions.

# Block and Level Diagrams

# Dimensions

Unit: mm



This illustration shows the MG10XU.

