



ZJ73180

MIXING CONSOLE

MG12XU / MG12

Technical Specifications

General Specifications

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

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	0.03 % @ +14 dBu (20 Hz to 20 kHz), GAIN knob: Min 0.005 % @ +24 dBu (1 kHz), GAIN knob: Min	
Hum & Noise *1 (20 Hz to 20 kHz)	Equivalent Input Noise	-128 dBu (Mono Input Channel, Rs: 150 Ω, GAIN knob: Max)	
	Residual Output Noise	-102 dBu (STEREO OUT, STEREO master fader: Min)	
Crosstalk(1 kHz) *2		-78 dB	
Input channels		Mono [MIC/LINE]: 4, Mono/Stereo [MIC/LINE]: 2, Stereo [LINE]: 2	
Output channels		STEREO OUT: 2, MONITOR OUT: 1, PHONES: 1, AUX SEND: 2, GROUP OUT: 2	
Bus		STEREO : 1, GROUP: 2, AUX: 2 (MG12XU: incl. FX)	
Input Channel Function	PAD	CH 1 – CH 4	26 dB
	HPF	CH 1 – CH 7/8	80 Hz, 12 dB/oct (Mono/Stereo: MIC only)
	COMP	CH 1 – CH 4	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	CH 1 – CH 11/12	HIGH: Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving
		CH 1 – CH 7/8	MID: Gain: +15 dB/-15 dB, Frequency: 2.5 kHz peaking
CH 1 – CH 11/12		LOW: Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving	
PEAK LED	CH 1 – CH 7/8	LED turns on when post EQ signal reaches 3 dB below clipping (+17 dBu)	
Level Meter	Pre Monitor LEVEL	2 x 12 -segment LED meter [PEAK, +10, +6, +3, 0, -3, -6, -10, -15, -20, -25, -30 dB]	
Built-in Effect (MG12XU)	SPX Algorithm	24 programs, PARAMETER control: 1, FOOT SW: 1 (FX RTN CH on/off)	
USB Audio (MG12XU)	2 IN / 2 OUT	USB Audio Class 2.0 compliant, Sampling Frequency: Max 192 kHz, Bit Depth: 24-bit	
Phantom Power Voltage		+48 V	
Power Requirements		AC 100-240 V, 50 Hz/60 Hz	
Power Consumption		22 W	
Dimensions (W x H x D)		308 mm x 118 mm x 422 mm (9.6" x 2.8" x 11.6")	
Net Weight		MG12XU: 4.2 kg (9.3 lbs.), MG12: 4.0 kg (8.8 lbs.)	
Included Accessory		Owner's Manual, Technical Specifications, Cubase AI Download Information (MG12XU only)	
Optional Accessory		Rack-mount kit: RK-MG12, Foot Switch: FC-5	
Operating Temperature		0 to +40 °C	

*1 Noise is measured with A-weighting filter.

*2 Crosstalk is measured with 1 kHz band pass filter.

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European Models

Inrush Current based on EN 55103-1:2009
3.0 A (on initial switch-on)
2.0 A (after a supply interruption of 5s)
Conforms to Environments: E1, E2, E3 and E4

Analog Input Characteristics

Input Terminals	PAD 26dB	GAIN Trim	Actual Load Impedance	For Use With Nominal	Input level			Jack	Balanced / Unbalanced
					Sensitivity *1	Nominal	Max. before clip		
CH INPUT 1–4	OFF	+64 dB	3 kΩ	50–600 Ω Mics/Lines	-80 dBu (0.077 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 *2 TRS PHONE (6.3 mm) *3 Combo type	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)		
CH INPUT 5/6, 7/8	—	—	3 kΩ	50–600 Ω Mics	-80 dBu (0.077 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 *2	XLR-3-31: Balanced
			10 kΩ	600 Ω Lines	-54 dBu (1.55 mV)	-34 dBu (15.46 mV)	-14 dBu (154.6 mV)	TRS PHONE (6.3 mm) *4	TRS PHONE: Unbalanced
CH INPUT 9/10, 11/12	—	—	10 kΩ	600 Ω Lines	-30 dBu (24.5 mV)	-10 dBu (245 mV)	+10 dBu (2.45 V)	TRS PHONE (6.3 mm) *4 RCA PIN	TRS PHONE: Unbalanced RCA PIN: 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 controls are maximum position.)

*2 1/Sleeve=GND, 2/Tip=HOT, 3/Ring=COLD

*3 Tip=HOT, Ring=COLD, Sleeve=GND

*4 Tip=Signal, Ring=GND, Sleeve=GND

Analog Output Characteristics

Output Terminals	Actual Source Impedance	For Use With Nominal	Output level			Jack	Balanced / Unbalanced / Impedance
			—	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 *2 TRS PHONE(6.3 mm) *3	Balanced
MONITOR OUT L, R GROUP OUT 1–2 AUX SEND 1–2	150 Ω	10 kΩ Lines	—	+4 dBu (1.228 V)	+20 dBu (7.750 V)	TRS PHONE(6.3 mm) *3	Impedance Balanced
PHONES L, R	110 Ω	40 Ω Lines	—	3 mW + 3 mW	100 mW + 100 mW	TRS PHONE(6.3 mm) *5	—

0 dBu is referenced to 0.775 Vrms.

*2 1/Sleeve=GND, 2/Tip=HOT, 3/Ring=COLD

*3 Tip=HOT, Ring=COLD, Sleeve=GND

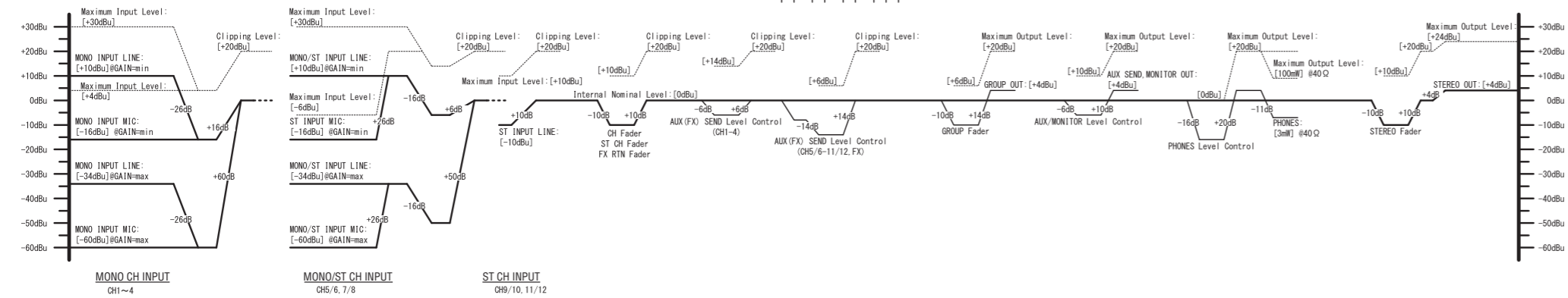
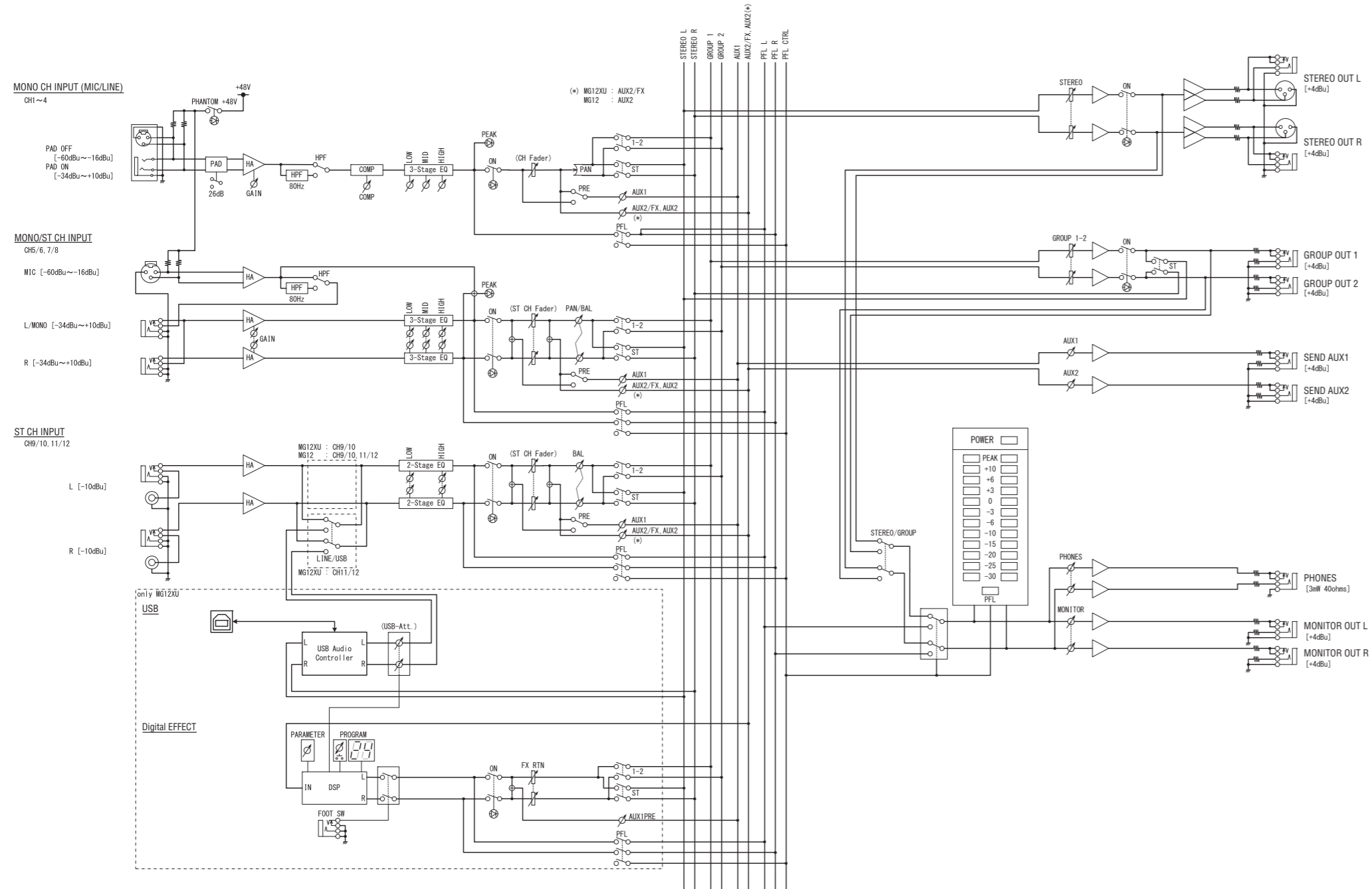
*5 Tip=LEFT, Ring=RIGHT, Sleeve=GND

Digital Input / Output Characteristics (MG12XU)

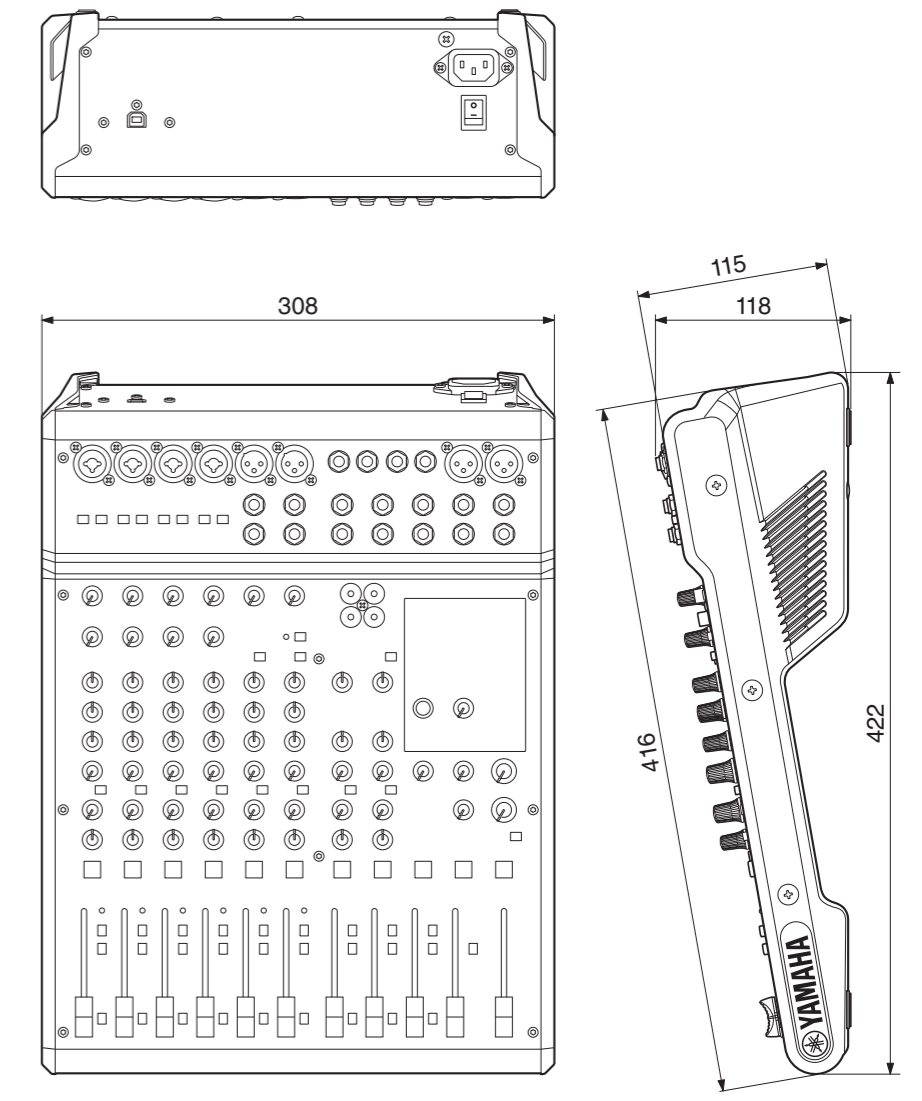
Terminals	Format	Data length *1	Fs	Connector
USB	USB Audio Class 2.0/ Yamaha Steinberg USB Driver	16-bit/24-bit	44.1 kHz, 48 kHz, 88.2 kHz, 96 kHz, 176.4 kHz, 192 kHz	USB Standard-B

*1 Data length depends on the particular audio format being used. USB Audio Class 2.0: 16-bit/24-bit, Yamaha Steinberg USB Driver: 24-bit

Block and Level Diagrams



Dimensions



Unit: mm
This illustration shows the MG12XU.