YAMAHA

VFN3480

MIXING CONSOLE

MG10XU MG10X 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.

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	
Total Harmonic Distortion (THD+N)	**Input to STEREO OUT**	0.02 % @ +14 dBu (20 Hz to 20 kHz), GAIN knob: Min 0.003 % @ +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 LEVEL knob: Min)	
Crosstalk (1 kHz) *2		-83 dB	
Input Channels		10 channels: Mono [MIC/LINE]: 4, Stereo [LINE]: 3	
Ouput Channels		STEREO OUT: 2, PHONES: 1, MONITOR OUT: 1, AUX (FX) SEND: 1	
Bus		Stereo: 1, AUX (FX): 1	
Input Channel Function	**PAD**	CH1 – CH4	26 dB
	HPF	CH1 – CH4	80 Hz, 12 dB/oct
	COMP	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
	EQ	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
	PEAK LED	CH1 – CH4	LED turns on when post EQ signal reaches 3 dB below clipping (+17 dBu)
Level Meter	**Post STEREO LEVEL Knob**	2×7 -segment LED meter [PEAK (+17), +10, +6, 0, -6, -10, -20 dB]	
Internal Digital Effect (MG10XU/MG10X)	**SPX Algorithm**	24 programs	
USB Audio (MG10XU)	**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 Supply Adaptor		PA-10 (AC 38 VCT, 0.62A, Cable length = 3.6 m) or equivalent recommended by Yamaha	
Power Consumption		22.9 W	
Dimensions (W×H×D)		244 mm×71 mm×294 mm (9.6" × 2.8" × 11.6")	
Net Weight		MG10XU, MG10X: 2.1 kg (4.6 lbs.), MG10: 1.9 kg (4.1 lbs.)	
Included Accessory		AC Adaptor, Cubase AI Download Information (MG10XU), Owner's Manual, Precautions, Technical Specifications (this leaflet)	
Optional Accessory		Mic Stand Adaptor: BMS-10A	
Operating Temperature		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)

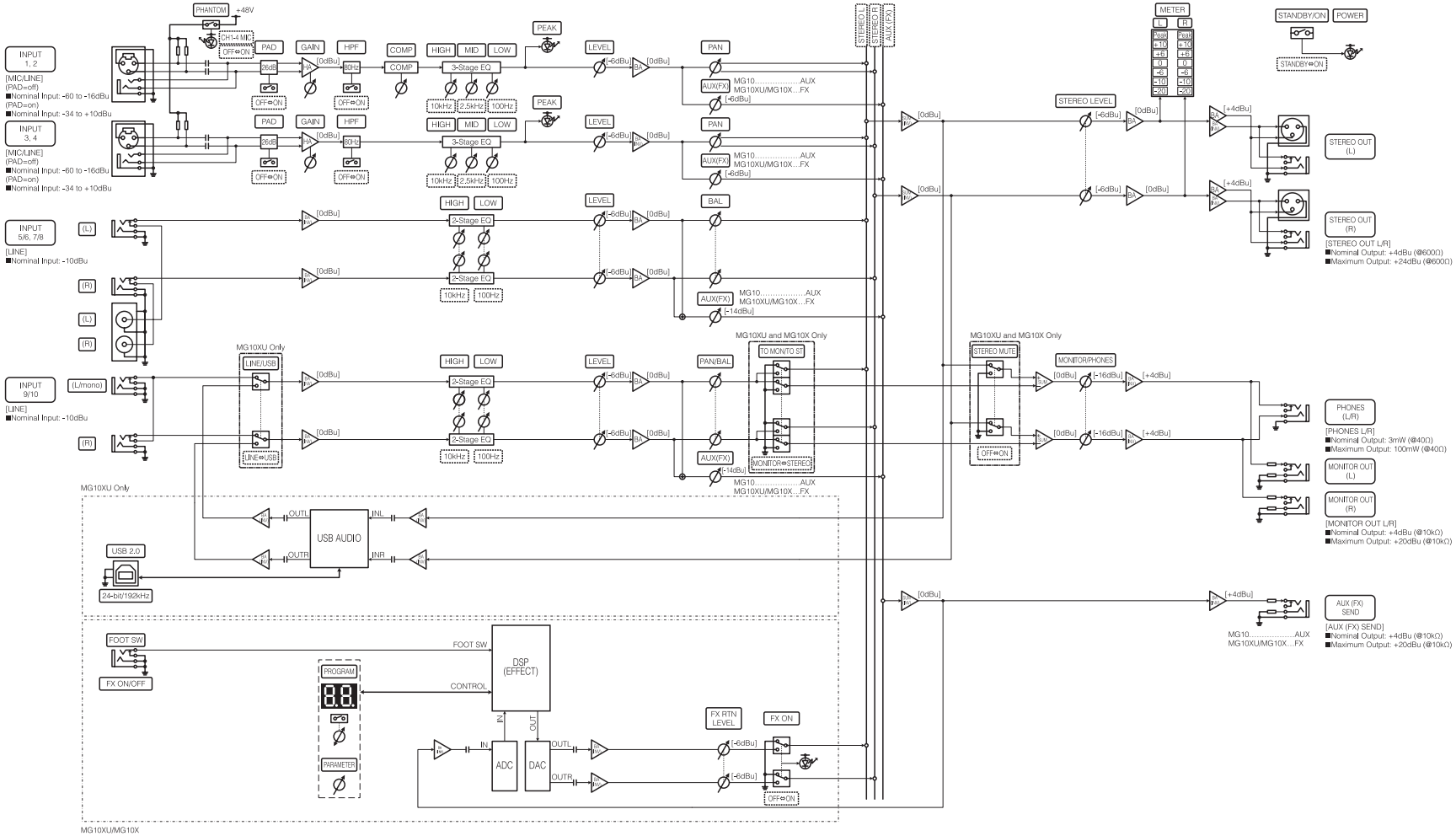
1 A (after a supply interruption of 5s)

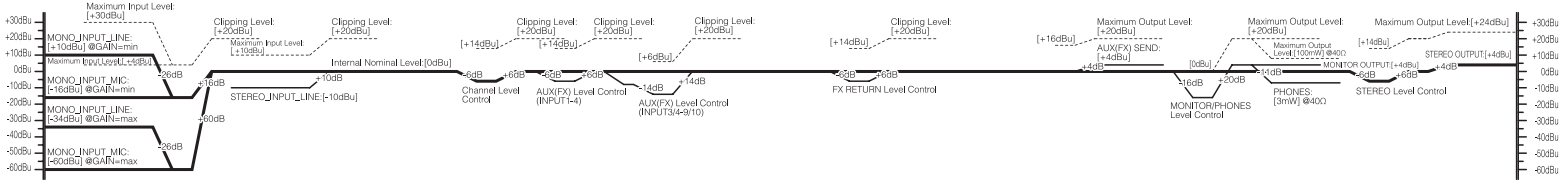
Conforms to Environments: E1, E2, E3 and E4

* The contents of this manual apply to the latest specifications as of the publishing date. To obtain the latest manual, access the Yamaha website then download the manual file.

See reverse side for block/level diagrams and dimensions.

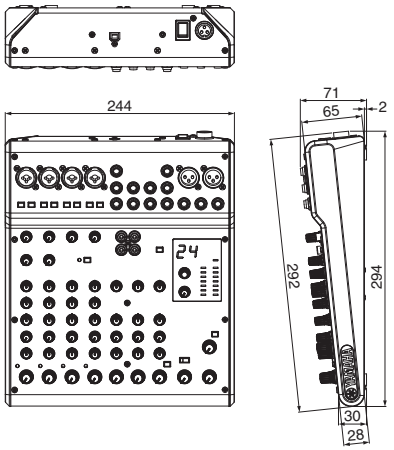
Block and Level Diagrams





Dimensions

Unit: mm



This illustration shows the MG10XU.

Manual Development Group

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