

MG20XU, MG20

Mixing Consoles

D-PRE 1-knob Comp METAL MULTIEFFECT PROCESSOR 24-bit/192kHz CUBASE AI



Rear Panel

MG20XU

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Rear Panel

MG20

- Max. 16 Mic / 20 Line Inputs (12 mono + 4 stereo)
- 4 GROUP Buses + 1 Stereo Bus
- 4 AUX (incl. FX)
- "D-PRE" mic preamps with an inverted Darlington circuit
- 1-Knob compressors
- High-grade effects: SPX with 24 programs (MG20XU)
- 24-bit/192kHz 2in/2out USB Audio functions (MG20XU)
- Works with the iPad (2 or later) through the Apple iPad Camera Connection Kit / Lightning to USB Camera Adapter (MG20XU)
- Includes Cubase AI DAW software download version (MG20XU)
- 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

OPTION

FC5
Foot Switch
for MG20XU



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GENERAL SPECIFICATIONS

		MG20XU	MG20
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^{*1}	Input to STEREO OUT	0.03 % @ +14dBu (20 Hz to 20kHz), GAIN knob: Min	
		0.005 % @ +24dBu (1kHz), GAIN knob: Min	
Hum & noise level^{*2} (20Hz to 20kHz)	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 (@1kHz)		-78dB	
Input channels		20 channels: Mono [MIC/LINE]: 12, Mono/Stereo [MIC/LINE]: 2, Stereo [LINE]: 2	
Output channels		STEREO OUT: 2, PHONES: 1, MONITOR OUT: 1, AUX SEND: 4, GROUP OUT: 4	
Bus		STEREO: 1, GROUP: 4, AUX: 4 (MG20XU: incl. FX)	
Input channel function	PAD	CH 1 – CH 12	26 dB
	HPF	CH 1 – CH 12, CH 13/14 (MIC) – CH 19/20 (MIC)	80 Hz, 12 dB/oct
	COMP	CH 1 – CH 8	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 approx. 300 msec
	EQ	CH 1 – CH 12	HIGH: Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving MID: Gain: +15 dB/-15 dB, Frequency: 250 Hz to 5 kHz peaking LOW: Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving
CH 13/14 – CH 19/20		HIGH: Gain: +15 dB/-15 dB, Frequency: 10 kHz shelving MID: Gain: +15 dB/-15 dB, Frequency: 2.5 kHz peaking LOW: Gain: +15 dB/-15 dB, Frequency: 100 Hz shelving	
PEAK LED	CH 1 – CH 19/20	LED turns on when post EQ signal reaches 3 dB below clipping level	
Level meter	Pre Monitor LEVEL	2 x 12-segment LED meter (PEAK, +10, +6, +3, 0, -3, -6, -10, -15, -20, -25, -30 dB)	
Internal digital effect	SPX algorithm	24 programs, PARAMETER control: 1, FOOT SW: 1 (FX RTN CH on/off)	
Usb audio	2 IN / 2 OUT	USB Audio Class 2.0 compliant, Sampling Frequency: Max 192 kHz, Bit Depth: 24-bit	
Phantom power		+48V	
Power requirements		AC 100-240 V, 50 Hz/60 Hz	
Power consumption		36 W	
Dimensions (W x H x D)		444 x 130 x 500 mm (17.5" x 5.1" x 19.7")	
Weight		7.1kg (15.7 lbs.)	6.9kg (15.2 lbs.)
Included accessory		AC power cord, Rack mount kit, Cubase AI Download Information, Owner's Manual, Technical Specifications	AC power cord, Rack mount kit, Owner's Manual, Technical Specifications
Optional accessory		FCS	-
Operating temperature		0 to +40°C	

*1 Total harmonic distortion is measured with a 18dB/Oct filter @80kHz.

*2 Hum & noise level is measured with a 6dB/oct filter @12.7kHz; equivalent to 20kHz filter with infinite dB/Oct attenuation.

ANALOG INPUT SPECIFICATIONS

Input terminal	Input level		Actual source impedance	For use with nominal	Input level			Connector
	PAD	GAIN			Sensitivity ^{*1}	Nominal	Max. before clip	
MIC/LINE 1 – 12	0	+64dB	3kΩ	50-600Ω Mics/ Lines	-80 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	Combo jack ^{*2} (Balanced)
		+20dB			-36 dBu (12.3 mV)	-16 dBu (123 mV)	+4 dBu (1.23 V)	
	26dB	+38dB			-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	
		-6dB			-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)	
MIC 13/14 – 19/20		+64dB	3kΩ	50-600Ω Mics	-80 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type ^{*3} (Balanced)
	+20dB	-36 dBu (12.3 mV)			-16 dBu (123 mV)	+4 dBu (1.23 V)		
LINE 13/14, 15/16		+38dB	10kΩ	600Ω Lines	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone jack ^{*4} (Unbalanced)
		-6dB			-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)	
LINE 17/18, 19/20		+38dB	10kΩ	600Ω Lines	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	RCA pin jack (Unbalanced)
		-6dB			-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)	

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

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

*3 1 = GND, 2 = HOT, 3 = COLD

*4 Tip = Signal, Sleeve = GND

ANALOG OUTPUT SPECIFICATIONS

Output terminal	Actual source impedance	For use with nominal	Output Level		Connector
			Nominal	Max. before clip	
ST OUT [L,R]	75Ω	600Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR3-32 type ^{*3} Phone jack ^{*5} (Balanced)
MONITOR OUT [L, R] GROUP OUT [1 - 4] AUX SEND [1 - 4]	150Ω	10kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone jack ^{*5} (Impedance Balanced)
PHONES OUT	110Ω	40Ω Phones	3 mW + 3 mW	100 mW + 100 mW	ST Phone Jack

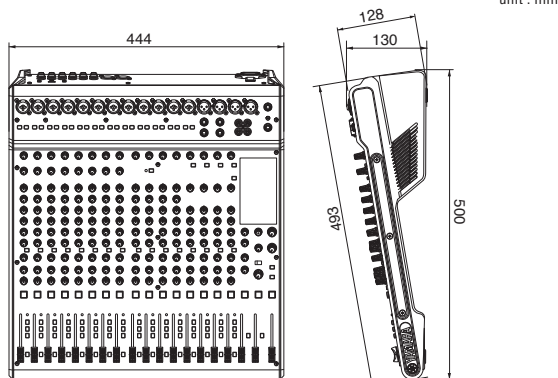
*3 1 = GND, 2 = HOT, 3 = COLD

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

DIGITAL I/O SPECIFICATIONS (MG20XU)

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

DIMENSIONS



MG20XU

