

MG82CX, MG124CX, MG166CX

Mixing Consoles



MG82CX



MG124CX



MG166CX

Yamaha's one-knob compressor and built-in SPX effects give these mixers refined creative control.

- 8, 12, or 16 inputs in remarkably lightweight, portable designs.
- Yamaha's innovative one-knob compressor lets you easily dial in the amount of compression you need.
- Built-in digital SPX multi-effect processor.
- All models feature high-quality Neutrik™ balanced XLR connectors on mono microphone/line channels and XLR-equipped stereo channels.
- Top-mounted input and output connectors for easy setup and re-patching.
- High-performance microphone preamplifiers with switchable phantom power.
- 3-band channel EQ and high-pass filters (sweepable midrange on the MG166CX).
- Smooth 60-millimeter faders & illuminated channel ON switches.
- The MG82CX has a single stereo bus (i.e. two mono buses), while the other models feature one or two additional stereo group buses and outputs for convenient channel grouping.
- AUX sends with master send controls for convenient processing and monitoring.
- Return level controls for the AUX and STEREO buses.
- Bright meters for visual level monitoring.
- Optional microphone stand mount available for the MG82CX.
- MG166CX rack mountable.

OPTIONS

BMS10A
Mic Stand Adaptor
for MG82CX



FC5
Foot Switch



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GENERAL SPECIFICATIONS

	MG166CX	MG124CX	MG82CX
Mic/Line inputs	10	6	4
Line inputs	8 mono + 4 stereo	4 mono + 4 stereo	2 mono + 4 stereo
Mixer input channels	16	12	8
Group buses	4	2	-
AUX buses	3 (Incl. 1x Effect send)	2 (Incl. 1x Effect send)	1 (Effect send)
Main buses	Stereo	Stereo	Stereo
Total harmonic distortion (THD+N)	Less than 0.1%, 20Hz-20kHz		
Frequency response	0, +1, -3dB, 20Hz-20kHz		
Hum and noise level	Equivalent input noise (EIN): -128dBu		Equivalent input noise (EIN): -128dBu
	Residual output noise: -98dBu		Residual output noise: -100dBu
Crosstalk (@1kHz)	-70dB		
Power supply adaptor	PA-30 AC adaptor (AC35VCT, 1.4A) 100V, 120V, 220V, 230V or 240V; 50/60Hz	PA-20 AC adaptor (AC35VCT, 0.94A) 100V, 120V, 220V, 230V or 240V; 50/60Hz	PA-10 AC adaptor (AC38VCT, 0.62A) 100V, 120V, 220V, 230V or 240V; 50/60Hz
Power consumption	35W	30W	21W
Dimensions (W x H x D)	478 x 105 x 496mm (18.8" x 4.1" x 19.5")	346.2 x 86.1 x 436.6mm (13.6" x 3.4" x 17.2")	256.6 x 62.2 x 302.5mm (10.1" x 2.5" x 11.9")
Net weight	5.5kg (12.1lbs)	3.2kg (7.0lbs)	1.6kg (3.5lbs)
Accessories	Owners manual, AC adaptor		

- Hum and noise level are measured with a 6dB/octave filter @12.7kHz; equivalent to a 20kHz filter with infinite dB/octave attenuation.

INPUT SPECIFICATIONS

Terminal	Gain	Actual Load Impedance	For Use With Nominal	Input Level			Connector
				Sensitivity	Nominal	Max. before Clip	
MG82CX							
CH IN MIC (1, 2)	-60dB -16dB	3kΩ	50-600Ω Mics	-72dBu -28dBu	-60dBu -16dBu	-40dBu +4dBu	XLR-3-31 type*
CH IN LINE (1, 2)	-34dB +10dB	10kΩ	600Ω Lines	-46dBu - 2dBu	-34dBu +10dBu	-14dBu +30dBu	Phone jack (TRS)*
ST CH MIC IN (3/4, 5/6)	-60dB -16dB	3kΩ	50-600Ω Mics	-72dBu -28dBu	-60dBu -16dBu	-40dBu -6dBu	XLR-3-31 type*
ST CH LINE IN (3/4, 5/6)	-34dB +10dB	10kΩ	600Ω Lines	-46dBu - 2dBu	-34dBu +10dBu	-14dBu +30dBu	Phone jack**
ST CH IN (7/8)	-	10kΩ	600Ω Lines	-22dBu	-10dBu	+10dBu	Phone jack** RCA pin jack**
CH INSERT IN (1, 2)	-	10kΩ	600Ω Lines	-12dBu	0dBu	+20dBu	Phone jack (TRS)**
RETURN [L,R]	-	10kΩ	600Ω Lines	- 8dBu	+4dBu	+24dBu	Phone jack**
2TR IN [L,R]	-	10kΩ	600Ω Lines	-22dBV	-10dBV	+10dBV	RCA pin jack**
MG124CX							
CH IN MIC (1-4)	-60dB -16dB	3kΩ	50-600Ω Mics	-80dBu -36dBu	-60dBu -16dBu	-40dBu +4dBu	XLR-3-31 type*
CH IN LINE (1-4)	-34dB +10dB	10kΩ	600Ω Lines	-54dBu -10dBu	-34dBu +10dBu	-14dBu +30dBu	Phone jack (TRS)*
ST CH MIC IN (5/6, 7/8)	-60dB -16dB	3kΩ	50-600Ω Mics	-80dBu -36dBu	-60dBu -16dBu	-40dBu -6dBu	XLR-3-31 type*
ST CH LINE IN (5/6, 7/8)	-34dB +10dB	10kΩ	600Ω Lines	-54dBu -10dBu	-34dBu +10dBu	-14dBu +30dBu	Phone jack**
ST CH IN (9/10, 11/12)	-	10kΩ	600Ω Lines	-30dBu	-10dBu	+10dBu	Phone jack** RCA pin jack**
CH INSERT IN (1-4)	-	10kΩ	600Ω Lines	-20dBu	0dBu	+20dBu	Phone jack (TRS)**
RETURN [L,R]	-	10kΩ	600Ω Lines	-12dBu	+4dBu	+24dBu	Phone jack**
2TR IN [L,R]	-	10kΩ	600Ω Lines	-26dBV	-10dBV	+10dBV	RCA pin jack**
MG166CX							
CH IN MIC (1-8)	-60dB -16dB	3kΩ	50-600Ω Mics	-80dBu -36dBu	-60dBu -16dBu	-40dBu +4dBu	XLR-3-31 type*
CH IN LINE (1-8)	-34dB +10dB	10kΩ	600Ω Lines	-54dBu -10dBu	-34dBu +10dBu	-14dBu +30dBu	Phone jack (TRS)*
ST CH MIC IN (9/10, 11/12)	-60dB -16dB	3kΩ	50-600Ω Mics	-80dBu -36dBu	-60dBu -16dBu	-40dBu -6dBu	XLR-3-31 type*
ST CH LINE IN (9/10, 11/12)	-34dB +10dB	10kΩ	600Ω Lines	-54dBu -10dBu	-34dBu +10dBu	-14dBu +30dBu	Phone jack**
ST CH IN (13/14, 15/16)	-	10kΩ	600Ω Lines	-30dBu	-10dBu	+10dBu	Phone jack** RCA pin jack**
CH INSERT IN (1-8)	-	10kΩ	600Ω Lines	-20dBu	0dBu	+20dBu	Phone jack (TRS)**
RETURN [L,R]	-	10kΩ	600Ω Lines	-12dBu	+4dBu	+24dBu	Phone jack**
2TR IN [L,R]	-	10kΩ	600Ω Lines	-26dBV	-10dBV	+10dBV	RCA pin jack**

- Sensitivity is the lowest level that will produce the nominal output level when the unit is set to maximum level.

- 0dBu : 0.775Vrms; -0dBV : 1Vrms.

- * : Balanced; ** : Unbalanced

OUTPUT SPECIFICATIONS

Terminal	Actual Source Impedance	For Use With Nominal	Output Level		Connector
			Nominal	Max. before Clip	
MG82CX					
STEREO OUT [L,R]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack (TRS)***
EFFECT SEND	150Ω	10kΩ Lines	+4dBu (TRS)**	+20dBu	Phone jack (TRS)***
CH INSERT OUT (1-2)	75Ω	10kΩ Lines	0dBu	+20dBu	Phone jack (TRS) **
REC OUT [L, R]	600Ω	10kΩ Lines	-10dBV	+10dBV	RCA pin jack**
MONITOR OUT [L, R]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack***
PHONES OUT	100Ω	40kΩ Lines	3mW	75mW	Stereo phone jack**
MG124CX					
STEREO OUT [L, R]	75Ω	600Ω Lines	+4dBu	+24dBu	XLR 3-32 type* Phone jack (TRS)*
GROUP OUT [1, 2]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack (TRS)***
AUX SEND	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack (TRS)***
EFFECT SEND	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack (TRS)***
CH INSERT OUT (1-4)	75Ω	10kΩ Lines	0dBu	+20dBu	Phone jack**
REC OUT [L, R]	600Ω	10kΩ Lines	-10dBV	+10dBV	RCA pin jack**
MONITOR OUT [L, R]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack (TRS)***
PHONES OUT	100Ω	40kΩ Lines	3mW	75mW	Stereo phone jack**
MG166CX					
STEREO OUT [L,R]	75Ω	600Ω Lines	+4dBu	+24dBu	XLR 3-32 type* Phone jack (TRS)*
GROUP OUT [1-4]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack (TRS)***
AUX SEND (1, 2)	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack (TRS)***
EFFECT SEND	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack (TRS)***
CH INSERT OUT (1-8)	75Ω	10kΩ Lines	0dBu	+20dBu	Phone jack (TRS)**
REC OUT [L, R]	600Ω	10kΩ Lines	-10dBV	+10dBV	RCA pin jack**
MONITOR OUT [L, R]	150Ω	10kΩ Lines	+4dBu	+20dBu	Phone jack (TRS)*
PHONES OUT	100Ω	40kΩ Lines	3mW	75mW	Stereo phone jack**

- 0dBu : 0.775Vrms; -0dBV : 1Vrms.

- * : Balanced; ** : Unbalanced; *** : Impedance balanced

DIMENSIONS

