Overview Features Lineup Specifications Photos Downloads

MGP32X / MGP24X Specifications

Outline		**MGP32X**	**MGP24X**
Mixing capability	Mixing channels	32 Line Inputs (24 mono and 4 stereo)	24 Line Inputs (16 mono and 4 stereo)
	GROUP	4 GROUP Buses + ST Bus	4 GROUP Buses + ST Bus
	AUX	6 AUX Sends + 2 FX Sends	6 AUX Sends + 2 FX Sends
	MATRIX	1 Matrix out	1 Matrix out
	On-board processors	FX1:REV-X(8 PROGRAM, PARAMETER control)/ FX2:SPX(16 PROGRAM, PARAMETER control)	FX1:REV-X(8 PROGRAM, PARAMETER control)/ FX2:SPX(16 PROGRAM, PARAMETER control)
I/O	Mic inputs	MIC: 24 (INPUTS HPF: 100Hz 12dB/oct)	MIC: 16 (INPUTS HPF: 100Hz 12dB/oct)
	Phantom power	48V phantom power per channel	48V phantom power per channel
	Line inputs	LINE: 24 mono + 4 stereo, CH INSERT: 24 RETURN: 1 stereo	LINE: 16 mono + 4 stereo, CH INSERT: 16 RETURN: 1 stereo
	Digital I/O	USB Device, iPod / iPhone	USB Device, iPod / iPhone
General specifications		**MGP32X**	**MGP24X**
Total harmonic distortion		0.02% (20Hz-20kHz@ +14dBu)	0.02% (20Hz-20kHz@ +14dBu)
Frequency response		+0.5/-1.0dB 20Hz - 20kHz, refer to the nominal output level @1kHz	+0.5/-1.0dB 20Hz - 20kHz, refer to the nominal output level @1kHz
Hum & noise level	Equivalent input noise	-128 dBu Equivalent Input Noise	-128 dBu Equivalent Input Noise
	Residual output noise	-94 dBu Residual Output Noise	-94 dBu Residual Output Noise
Crosstalk		-74dB @ 1kHz	-74dB @ 1kHz
Power requirements		100-240V 50Hz/60Hz	100-240V 50Hz/60Hz
Power consumption		86W max	86W max
Dimensions	W	1,027mm (40.4")	819mm (32.2")
	H	169mm (6.7")	169mm (6.7")

	D	565mm (22.2")	565mm (22.2")
Net weight		19kg (41.9lb)	15.5kg (34.2lb)

MGP16X / MGP12X Specifications

Outline		**MGP16X**	**MGP12X**
Mixing capability	Mixing channels	16 Line Inputs (8 mono and 4 stereo)	12 Line Inputs (4 mono and 4 stereo)
	GROUP	4 GROUP Buses + ST Bus	4 GROUP Buses + ST Bus
	AUX	2 AUX Sends + 2 FX Sends	2 AUX Sends + 2 FX Sends
	Input channel functions	Compressor CH1-8,HPF(100Hz 12dB/oct), CH EQ(MONO) ±15dB(Max.):High 8kHz shelving/ Mid 250Hz-5kHz peaking(CH1-8,13-16)/ Low 125Hz shelving, CH EQ(STEREO) ±15dB(Max.):High 8kHz shelving/ Mid 2.5kHz peaking(CH9-12)/ Low 125Hz shelving	Compressor CH1-4,HPF(100Hz 12dB/oct), CH EQ(MONO) ±15dB(Max.):High 8kHz shelving/ Mid 250Hz-5kHz peaking(CH1-4,9-12)/ Low 125Hz shelving, CH EQ(STEREO) ±15dB(Max.):High 8kHz shelving/ Mid 2.5kHz peaking(CH5-8)/ Low 125Hz shelving
	On-board processors	FX1:REV-X(8 PROGRAM, PARAMETER control), FX2:SPX (16 PROGRAM, PARAMETER control)	FX1:REV-X(8 PROGRAM, PARAMETER control), FX2:SPX (16 PROGRAM, PARAMETER control)
I/O	Mic inputs	MIC: 10	MIC:6 (100Hz 12dB/oct)
	Phantom power	48V phantom power per channel	48V phantom power per channel
	Line inputs	LINE: 8mono+4stereo, CH INSERT: 8, RETURN: 1stereo, 2TR IN: 1 stereo	LINE: 4mono+4stereo, CH INSERT IN: 4, RETURN: 1stereo, 2TR IN: 1 stereo
	Digital I/O	USB Audio USB IN: iPod, iPhone exclusive	USB Audio USB IN: iPod, iPhone exclusive
General specifications		**MGP16X**	**MGP12X**
Total harmonic distortion		0.02% (20Hz-20kHz@ +14dBu)	0.02% (20Hz-20kHz@ +14dBu)
Frequency response		+0.5/-1.0dB 20Hz - 20kHz, refer to the nominal output level @1kHz	+0.5/-1.0dB 20Hz - 20kHz, refer to the nominal output level @1kHz
Hum & noise level	Equivalent input noise	-128 dBu (20Hz–20 kHz, Rs=150Ω, Input Gain = Maximum)	-128 dBu (20Hz–20 kHz, Rs=150Ω, Input Gain = Maximum)
	Residual output noise	-102 dBu (20Hz–20 kHz, Rs=150Ω, Input Gain = Maximum)	-102 dBu (20Hz–20 kHz, Rs=150Ω, Input Gain = Maximum)
Crosstalk		-74dB @ 1kHz	-74dB @ 1kHz
Power requirements		100-240V 50Hz/60Hz	100-240V 50Hz/60Hz
Power consumption		55W max	45W max
Dimensions	W	447mm	348mm
	H	143mm	143mm
	D	495mm	495mm
Net weight		9.0kg	7.5kg

Analog input specifications

Input terminal	**Actual**	**For use**	**Input level**	**Connector**

	PAD	GAIN	source impedance	with nominal	Sensitivity*1	Nominal	Max. before clip	
MONO CH INPUT MGP32X: 1–24 MGP24X: 1–16	0	-60dB	3kΩ	50-600Ω Mics	-80 dBu (0.078 mV)	-60 dBu (0.775 mV)	-40 dBu (7.75 mV)	XLR-3-31 type*2 Phone jack*4
		-16dB			-36 dBu (12.3 mV)	-16 dBu (123 mV)	+4 dBu (1.23 V)	
	26dB	-34dB		600Ω Lines	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone jack*3
		+10dB			-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)	
STEREO CH INPUT MGP32X: 25–32 MGP24X: 17–24		-34dB	10kΩ	600Ω Lines	-54 dBu (1.55 mV)	-34 dBu (15.5 mV)	-14 dBu (155 mV)	Phone jack*4 RCA Pin Jack
		+10dB			-10 dBu (245 mV)	+10 dBu (2.45 V)	+30 dBu (24.5 V)	
MONO CH INSERT INPUT MGP32X: 1–24 MGP24X: 1–16			10kΩ	600Ω Lines	-20 dBu (77.5 mV)	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack*5
ST CH INSERT INPUT L,R			10kΩ	600Ω Lines	-20 dBu (77.5 mV)	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone Jack*5
TALKBACK INPUT			10kΩ	50-600Ω Mics	-66 dBu (0.389 mV)	-50 dBu (2.45 mV)	-30 dBu (24.5 mV)	XLR-3-31 type*6

0 dBu is referenced to 0.775 Vrms. 0 dBV is referenced to 1 Vrms.
*1 Sensitivity is the lowest level that will produce an output of +4 dB (1.23 V), or the nominal output level when the unit is set to maximum level. (all faders and level controls are at maximum position.)
*2 XLR-3-31 type connectors are balanced .(1=GND, 2=HOT, 3=COLD)
*3 Phone Jacks are balanced. (Tip=HOT, Ring=COLD, Sleeve=GND)
*4 Phone Jacks are unbalanced.
*5 Phone Jacks are unbalanced.(Tip=Out, Ring=In, Sleeve=GND)
*6 XLR-3-31 type connectors is unbalanced.

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*1 Phone jack*4
MONO OUT	75Ω	600Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR3-32 type*1
GROUP OUT (1-4)	150Ω	10kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone jack*2
AUX SEND (1-6)	75Ω	600Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR3-32 type*1
MATRIX OUT (1, 2)	150Ω	10kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone jack*2
MONO CH INSERT OUT MGP32X: 1–24 MGP24X: 1–16	75Ω	10kΩ Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone jack*3
ST CH INSERT OUT [L,R]	75Ω	10kΩ Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone jack*3
MONITOR OUT [L,R]	150Ω	10kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone jack*2
PHONES OUT	150Ω	40Ω Phones	3mW	75mW	ST Phone Jack

0 dBu=0.775 Vrms, 0 dBV=1 Vrms
*1 XLR-3-32 type connectors are balanced. (1=GND, 2=HOT, 3=COLD)
*2 Phone jacks are impedance balanced. (Tip=HOT, Ring=COLD, Sleeve=GND)
*3 Phone jacks are unbalanced. (Tip=Out, Ring=In, Sleeve=GND)
*4 Phone jacks are balanced. (Tip=HOT, Ring=COLD, Sleeve=GND)

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