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## 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
<b>General specifications</b>		<b>MGP32X</b>	<b>MGP24X</b>
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
<b>General specifications</b>		<b>MGP16X</b>	<b>MGP12X</b>
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
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	PAD	GAIN	source impedance	with nominal	Sensitivity <sup>*1</sup>	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 <sup>*2</sup> Phone jack <sup>*4</sup>
		-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 <sup>*3</sup>	
		+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 <sup>*4</sup> 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 <sup>*5</sup>
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 <sup>*5</sup>
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 <sup>*6</sup>

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 <sup>*1</sup> Phone jack <sup>*4</sup>
MONO OUT	75Ω	600Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR3-32 type <sup>*1</sup>
GROUP OUT (1-4)	150Ω	10kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone jack <sup>*2</sup>
AUX SEND (1-6)	75Ω	600Ω Lines	+4 dBu (1.23 V)	+24 dBu (12.3 V)	XLR3-32 type <sup>*1</sup>
MATRIX OUT (1, 2)	150Ω	10kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone jack <sup>*2</sup>
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 <sup>*3</sup>
ST CH INSERT OUT [L,R]	75Ω	10kΩ Lines	0 dBu (0.775 V)	+20 dBu (7.75 V)	Phone jack <sup>*3</sup>
MONITOR OUT [L,R]	150Ω	10kΩ Lines	+4 dBu (1.23 V)	+20 dBu (7.75 V)	Phone jack <sup>*2</sup>
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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