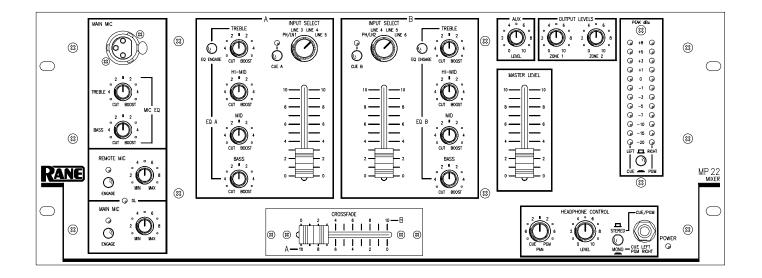


DJ MIXER



General Description

Following the success of the MP 24 DJ mixer, Rane presents the MP 22. Now smaller systems and budgets can take advantage of Rane quality and performance. The MP 22 features six stereo Inputs with individual Trims. Each of the two assignable mixing buses contains its own defeatable four band EQ, allowing separate equalization for different sources. All of the fader controls feature protective dust dams, and the rugged studio-quality Crossfader is front panel replaceable. Each of the two Phono (RIAA) Inputs can switch to CD (Line Level) use via rear panel switches. Both Mic Inputs have Bass and Treble controls as well as an Effects Loop. The MP 22 also features a second Remote Mic/Line Input and a stereo Aux Line Input. Master Outputs include a stereo Master Loop for equalization or processing, as well as two separate Zone Outputs. The Tape Output and Zone 1 can be individually switched to include the Main Mic signal with the program signal. The MP 22 doesn't scrimp on its powerful Headphone Cueing system. The metering can be switched to monitor stereo program *or* mono cue on one side and mono program on the other. The MP 22's recessed top mounted jacks provide room for cabling in tight DJ coffins or racks without sacrificing its compact 4" depth.

Features

- SIX STEREO INPUTS WITH TRIMS
- ADDITIONAL AUX STEREO INPUT
- PHONO INPUTS LINE LEVEL CONVERTIBLE
- SEPARATE EQ ON EACH ASSIGNABLE BUS
- FRONT PANEL REPLACEABLE CROSSFADER
- FRONT PANEL MIC INPUT WITH EQ & LOOP

- REMOTE MIC/LINE INPUT
- MASTER STEREO EFFECTS LOOP
- MIC/AUX TO TAPE OR ZONE SWITCHES
- VERSATILE HEADPHONE CUEING
- PROGRAM/CUE METERING
- UL/CSA REMOTE POWER SUPPLY (120 VAC)
- CE (LOW VOLTAGE & EMC) REMOTE POWER SUPPLY (230 VAC)

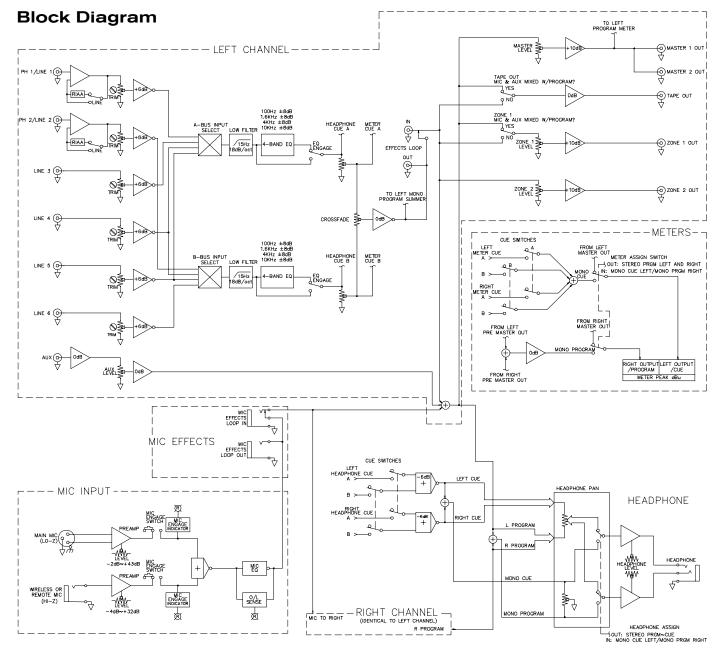
Parameter	Specification	Limit	Units	Conditions/Comments
Gain (Master and Zone Outputs)				1 kHz, EQ centered, All Levels Max
Phono/Line	48/16	1	dB	
Line and Aux Line	16	1	dB	
Main Mic	8/53	1	dB	Min/Max
Remote Mic	6.5/42	1	dB	Min/Max
Mic and Master Loops	10	1	dB	
Input Impedance: Line	6.5k	20%	ohms	
Phono/Line	47.5k	1%	ohms	Shunted by 200 pf
Aux Line	20k	1%	ohms	
Main Mic	1.2k	min	ohms	
Remote Mic	16k	10%	ohms	@ 1 kHz
Master Loop	8k	min	ohms	
Max Input Level: Line	22 / 16	1	dBu	Trim @ -6 dB / Trim @ Max
Phono (1kHz)	77 / 160	5%	mV	Trim @ -6 dB / Trim @ Max
	+14 (-21)	1	dBu	Min Gain (Max Gain)
	+16 (-10)	1	dBu	Min Gain (Max Gain)
Output Impedance: Master & Zone	300	1%	ohms	
	300	1%	ohms	
	100	1%	ohms	
-				
Headphone	0.8 22	max 1	ohms dBu	2k Load
Max Output Levels:				
Headphone	100 / 190	typ	dBu	600 Ohm Load / 150 Ohm Load
Infrasonic Filter	15	3%	Hz	18 dB/Oct, Butterworth
Frequency Response	15-65 kHz	+0/-3	dB	Line to Master
THD+Noise	0.02	.01	%	+4 dBu, 20-20 kHz, Line to Master
IM Distortion (SMPTE)	0.01	0.01	%	+4 dBu, 20-20 kHz, Line to Master
Signal-to-Noise Ratio	re +4 dBu			20 kHz Noise Bandwidth, Input Fader Max,
Phono to Master/Zone	90	1	dB	Master Fader & Zone Level @ Unity Gain
Line to Master/Zone	94	1	dB	-
Main Mic	-113	1	dBu	Equivalent Input Noise
Main Output Meter: Range	-20 to +8	1	dB	
Overload Indicator	4	Тур	dB	Below Clipping Level
RIAA Phono Stages	0.5	Тур	dB	Equalization Accuracy
Crosstalk	-65	2	dB	Channel to Channel, 1 kHz
Input Equalizer: Bass	Shelving @ 100	5%	Hz	Range $\pm 8 \text{ dB}$
Mid	Peaking @ 1.6k	5%	Hz	Range ±8 dB
Hi-Mid	Peaking @ 4.0k	5%	Hz	Range $\pm 8 \text{ dB}$
Treble	Shelving @ 6k	5%	Hz	Range ±8 dB
Microphone Equalizer: Bass	Shelving @ 100	5%	Hz	Range ±12 dB
Treble	Shelving @ 5k	5%	Hz	Range ±12 dB
Unit: Agency Listing				
120 VAC model	Class 2 Equipment			National Electrical Code
	U.L. 813 Exempt			Class 2
	CSA Exempt			Class 2
	VDE, SELV			Safety Extra Low Voltage
	CE (EMC)			EMC directive 89/336/EEC
	CE (safety) Exempt			Article 1 of LVD 73/23/EEC
Power Supply: Agency Listing				Class 2 Equipment
	UL listed			File no. E88261
	CSA Certified			File no. LR58948
	CE (EMC)			Meets EMC directive 89/336/EEC
	CE (safety)			LV directive 73/23/EEC
Power Supply Requirement	18 VAC w.center tap	0.1	Vrms	
Maximum Current	750	İ	mA	RMS Current from Remote Supply
Unit Construction	All Steel	İ	İ	11.5
Size	7"H (4U) x 19"W x 4"D			(17.8 cm x 48.3 cm x 10.2 cm)
Weight	9 lb w/o RS 1			(4.1 kg)
Shipping: Size	11" x 23" x 16"			(27.9 cm x 58.4 cm x 40.6 cm)
Weight	16 lb			(7.3 kg)
Note: 0 dBu=0.775 Vrms				(
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Professional Audio Products Data Sheet

MP 22

DJ MIXER



Application Information

The MP 22 provides two sets of EQUALIZER controls, four bands each, connected with each Input fader. Sensibly placed center frequencies provide optimum control over a wide range of input devices. A tape deck on INPUT A, for instance, can be equalized to sound similar to a CD player on INPUT B for smoother crossfades. Many DJ's prefer to drop the leading BASS control during beat-matching, and bring it back up after the crossfade for a more professional mix.

The MP 22 has a dual purpose metering system. Through the meter source selector button it can be changed from peak program in stereo, to mono cue on the left and mono program on the right. This allows Input Levels to be matched before Crossfading. Separate MAIN MIC and REMOTE MIC ENGAGE buttons with flashing LEDs leave no question as to whether a mic is on or not.

The AUX LINE Input has its own LEVEL control and sums with the other program material before the MASTER LEVEL fader.

Both TAPE and ZONE 1 Outputs can have the Mic and Aux Input signals removed by rear panel switches.

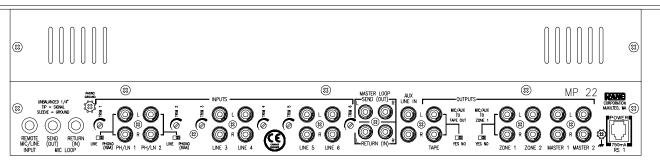
MASTER 1 and MASTER 2 Output levels are linked and controlled by the MASTER LEVEL fader on the front panel. The two ZONE Outputs have separate front panel LEVEL controls.

MP 22

DJ MIXER



Top View



Architectural Specifications

The mixer shall have two (2) stereo mixing buses, each equipped with high quality 60mm faders. Separate equalization shall be provided for each bus with a 4-band equalizer. Smooth and silent crossfade between the input buses shall be included. There shall be two (2) stereo phono inputs which can be converted to line level, and four (4) stereo line level inputs. Provisions shall exist for simultaneous use of two microphones, with 2band equalization and an external processing loop. A master effects loop shall be provided. Three stereo outputs shall be provided with individual level controls, comprised of Master and two Zones. Program metering shall be via a stereo LED meter. Complete cueing and headphone monitoring system shall be provided. Infrasonic and phono RFI filters shall be built-in.

The unit shall be exempt from agency safety requirements and powered from a UL listed, CSA certified (120 VAC) or CE approved (230 VAC) remote power supply. The unit shall be entirely constructed from cold-rolled steel, and mount into a standard 4U EIA rack. *The unit shall be a Rane Corporation Model MP 22.*

Side View

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