General Description

Rane proudly presents the MP 44 Mixer. Finally, a mixer that supports DJ creativity while club sound quality and equipment remain intact! The MP 44s unique set of features combine with superior audio performance to provide unparalleled value.

The MP 44 features four Input Buses, each providing:

- Assignment to the A-side, B-side or Post-Crossfader
- Phono/CD and Line inputs
- Gain trim (±12 dB)
- Overload indicator
- *FlexFX™* loop assignment
- 3-band full-cut *Accelerated-Slope™* Tone Controls.

Two Auxiliary Inputs: Aux Input A is unbalanced, while Aux Input B is balanced. Each Input features off to +6 dB Level controls.

Two Auxiliary Outputs: Aux Output A is unbalanced, and Aux Output B is balanced. Each Output features off to +6 dB Level controls. Each Output may be assigned Pre-Master Effects loop, Post-Master Effects loop or Post Master Effects loop plus Mic. These features provide the flexibility to use the Aux Outputs for recording or additional zones.

High performance VCA level controls are used for House and Booth level, providing very low travel noise and long life. A Master left/right balance control and recessed Master Mono switch with LED indicator are provided.

A Master Limiter with true rms detectors limits both House and Booth maximum levels. The rear panel threshold control range is ±20 dBu. Threshold indicators are provided on both the front and rear panels.

Special Club Owner features include:

- High-performance Master Limiter (Limits House & Booth Outs).
- Exceptional overload characteristics.
- Automatic Emergency Page Input.
- Optional remote DC Master Level control.

Special DJ features include:

- 3-band full-cut Tone controls (off to +6 dB) on each of the 4 Input channels.
- FlexFX™ assignment allows processing any combination of the 4 Input buses by the Effects loop, regardless of A-side, B-side or Post-Crossfader assignment!
- A-side, B-side or Post-Crossfader assign for each Input bus.
- High-performance VCA Crossfader with Contour control.
- High-performance VCA channel faders.
- 2 Auxiliary Inputs; 2 Mic Inputs.
- 2 Auxiliary Outputs; House, Booth and Light Outputs.
- 2 automatic Crossfader CD Triggers.
- 2 Mic Preamps with independent EQ & Effects Loops.
- Split cue headphone monitoring and metering.

The House Output may be remotely controlled. A remote DC Level Control port allows 40 dB of Master Mix gain control. Any linear potentiometer from 10k to 100k Ω works with the internal reference voltage. An external ground referenced control voltage (0 to 5 VDC) may also be used. The optional VR 1 Remote Level control may be used for this (next page).

Signal detected at the **House Page Input** automatically mutes all program material at House and Booth Outputs. The Page Gain is set independently with a recessed rear panel control.

Two CD Trigger Outputs are provided via 3.5mm mini TRS jacks. Outputs are normally high with 50 ms active low trigger pulses. Start is on tip and stop is on sleeve. The Ring has no connection. The CD Trigger Enable switch is located on the front panel.

Two Mic Inputs each provide
- Combination XLR / TRS input jacks
- Full range fader control
- 3-band tone controls
- Effects insert with Engage switch
- 12 dB auto Booth Ducking
- Blue Mic-On indicator

Main Mic features
- Studio-grade integrated mic preamp
- Gain range 15 dB to 60 dB
- Selectable 12 volt phantom power

Aux Mic features
- Balanced input
- Mic or Line-level input
- Mic Gain Range 30 to 60 dB
- Line Gain Range 0 to 30 dB

Versatile headphone monitor allows Panning between Cue and House signals. Engage the Monitor Mono switch to Pan between Mono Cue (*left*) and Mono Master (*right*)(pre-house fader). The MP 44 uses a high-current, low-noise headphone amplifier, of course.
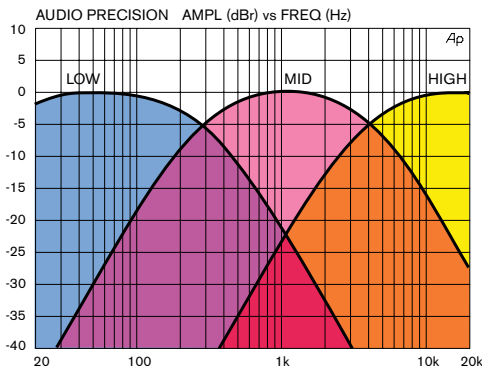
Versatile metering
- Stereo House output
- Mono-Cue / Mono-Master
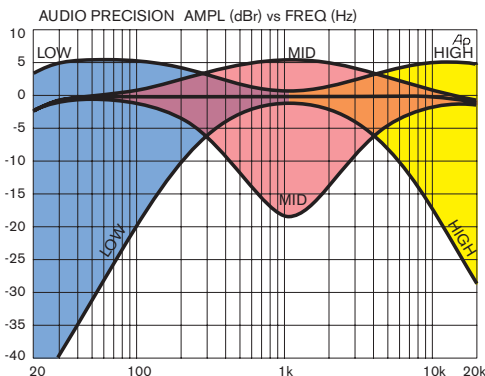- +4 dBu / -10 dBV switchable sensitivity

Light Trigger Output
- Balanced output (no transformer)
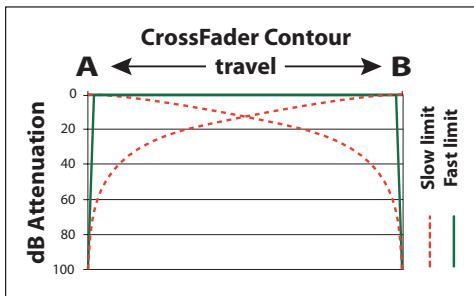- Rear panel Level control

Parameter	Specification
Phono Inputs	RCA
..........Impedance	47 kΩ 1%, 200 pF 5%
..........Gain @ 1 kHz	35 dB
..........Frequency Response	RIAA ±.5 dB 30-20 kHz
Unbalanced Line Inputs	RCA
..........Maximum Input	+20 dBu
..........Input Impedance	10 kΩ, 1%
Input Bus	
.........Gain Trim Range	±12 dB
.........Frequency Response	15 Hz to 30 kHz, -3dB point
.........Channel Separation	80 dB, min., 1 kHz
.........Left/Right Separation	70 dB, min., 1 kHz
.........Channel Fader Feed-through	-90 dB, max., 1 kHz
.........Crossfader Contour	Continuous range from blend to cut
.........Input Overload Indicator	3 dB before clip
FlexFX Loop	unbalanced, ¼" tip-sleeve
.........Input / Output Impedances	10 kΩ 1% / 300 Ω 1%
.........Max Input / Output Level	+16 dBu
Low end cut filter	12 dB/octave, Butterworth
.........Corner Frequency	15 Hz, ±5%
Aux A Input / Output	Unbalanced, RCA
.........Input / Output Impedances	10 kΩ 1% / 300 Ω 1%
.........Input / Output Gain	off to +6 dB
.........Max Input / Output Level	+20 dBu
Aux. B Input / Output	Balanced, ¼" tip-ring-sleeve
.........Input / Output Impedances	10 kΩ min. / 100 Ω 1% each leg to ground
.........Input / Output Gain	off to +6 dB
.........Max Input / Output Level	+20 dBu
Master Effects	unbalanced, ¼" tip-sleeve
.........Input / Output Impedances	10 kΩ 1% / 300 Ω 1%
.........Max Input / Output Level	+20 dBu
Light Trigger	balanced, ¼" tip-ring-sleeve
.........Gain Range	off to +6 dB
.........Output Impedance	100 Ω 1% each leg to ground
.........Maximum Output	+20 dBu
Limiter	True rms feed-forward
.........Threshold Range	-20 to +20 dBu
.........Ratio	Infinity:1
Remote Level Input	Wired DC, 3-pin Euroblock
.........Control Voltage Range / Law	0 to +5 volts, 125mV/dB
.........Gain Range	0 to -40 dB
.........Input Impedance	100 kΩ 1%

This chart shows the response of each Low, Mid and High tone control when the other two are set to OFF (full cut).

This chart shows the combined response of the three tone controls.

Parameter	Specification
House Page Input	balanced, 3-pin Euroblock
.........Input impedance	10 kΩ 1%
.........Maximum Input	+20 dBu
.........Gain Range	-20 to +6 dB
.........Auto Detect Threshold	-20 dBu (after gain)
.........Program Attenuation	40 dB
Main Mic	Active balanced, combo XLR / ¼" TRS
..........Gain Range	15 to 60 dB, typical
..........Maximum Input	+4 dBu
..........EIN	-128 dBu, Rs=150 Ω, g=60, 20 - 20 kHz
..........Tone Type	3-band Baxandall
..........Phantom Power	12 volts
Aux Mic	Active balanced, combo XLR / ¼" TRS
..........Mic Gain Range	30 to 60 dB
........Line Gain Range	0 to 30 dB
.........EIN	-116 dBu, Rs 150 Ω, g=60 dB, 20-20 kHz
........Tone Type	3-band Baxandall
Booth Ducker	12 dB, activated by Main or Aux Mic
House / Booth Output	Active balanced, XLR & ¼" TRS
.........Output Z	100 Ω 1% each leg
.........Max Output	+20 dBu
.........S/N	>90 dB re +4 dBu, 20-20 kHz, unity gain
.........THD+N	.1% 20-20 kHz, +4 dBu, unity, Rl=2 k Ω
Meter	Peak dBu, 1 second peak hold
.........Sensitivity	+4 dBu / -10 dBV for 0 dB indication
Headphone Output Power	200 mW into 150 Ω
International Power Supply	100 to 240 VAC, 50/60 Hz, IEC receptacle
Unit: Agency Listing	UL / cUL Listed, E193164
..........Construction	All Steel
..........Size	8.75"H x 19"W x 5.3"D (5U)
.........Weight	11.7 lb (5.3 kg)
Shipping: Size (inches)	13.6"H x 20"W x 9"D
..........Size (metric)	34.5cm x 50.8cm x 23cm
.........Weight	17 lb (7.7 kg)
Note: 0 dBu=0.775 Vrms	

All specifications are typical unless otherwise indicated.

The MP 44 uses an internal universal switching power supply. The MP 44 is UL and cUL listed and CE certified with CE emissions and immunity certification.
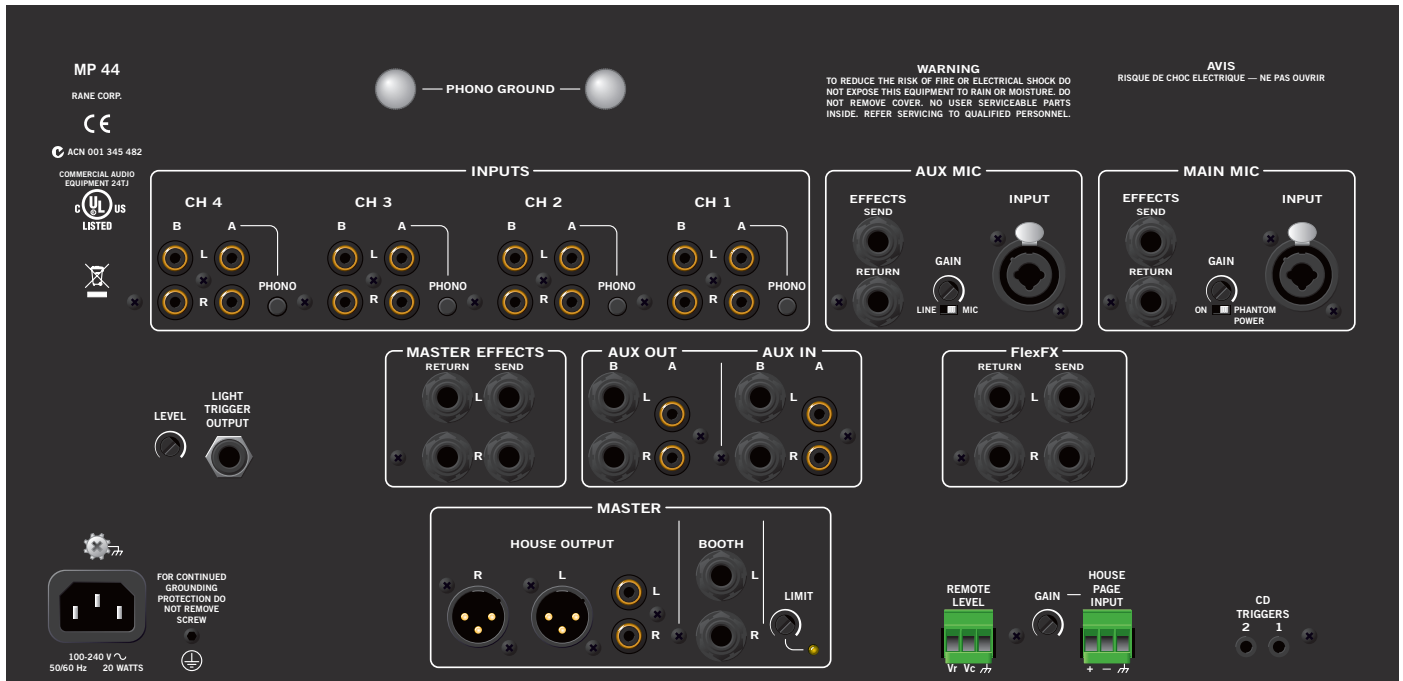

The MP 44 Block Diagram is in the MP 44 Manual, downloadable at www.rane.com/mp44.html

Rear Panel

MP 44

RANE CORP.

CE

ACN 001 345 482

COMMERCIAL AUDIO EQUIPMENT 24TJ

c UL us LISTED

PHONO GROUND

WARNING
TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. DO NOT REMOVE COVER. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED PERSONNEL.

AVIS
RISQUE DE CHOC ELECTRIQUE — NE PAS OUVRIR

INPUTS

CH 4   CH 3   CH 2   CH 1
B A   B A   B A   B A
L   L   L   L
PHONO   PHONO   PHONO   PHONO
R   R   R   R

AUX MIC
EFFECTS SEND
INPUT
GAIN
RETURN
LINE MIC

MAIN MIC
EFFECTS SEND
INPUT
GAIN
RETURN
ON PHANTOM POWER

LEVEL   LIGHT TRIGGER OUTPUT

MASTER EFFECTS
RETURN   SEND
L
R

AUX OUT
B A
L
R

AUX IN
B A
L
R

FlexFX
RETURN   SEND
L
R

FOR CONTINUED GROUNDING PROTECTION DO NOT REMOVE SCREW

100-240 V   50/60 Hz   20 WATTS

MASTER

HOUSE OUTPUT   BOOTH
R   L   L
L   R
R   LIMIT

REMOTE LEVEL
Vr Vc

GAIN

HOUSE PAGE INPUT
+ —

CD TRIGGERS
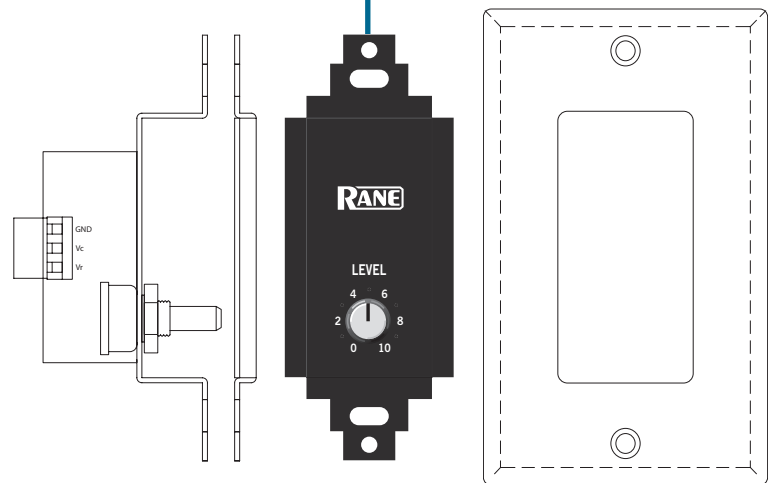2   1

VR 1 Remote Level Control

The optional VR 1 allows the Master Output of the MP 44 to be controlled from a remote location. It mounts in any standard U.S. electrical box and fitted with a Decora™ cover of your color choice (not included). VR 1 part #11791.

GND
Vc
Vr

RANE

LEVEL
4   6
2   8
0   10

Decora is a registered trademark of Leviton

Data Sheet-4

All features & specifications subject to change without notice. DOC 107580