Description

The TTM 54i Performance Mixer is a precision instrument designed for the demanding DJ. This ain’t no toy! The Rane TTM 54i offers more features, higher performance and better reliability than other Performance Mixers in its price range.

Unique Features

• A precision Active Crossfader™ with continuously adjustable Contour and “Hamster” reversal controls, provides the lowest feed-through, lowest noise, and most responsive control, all with unprecedented reliability (see Fig. 1).
• Front panel “Hamster” reversal and switchable Contour controls give the faders ultimate flexibility (see Fig. 2).
• High performance Accelerated-Slope™, band-split 24 dB per octave tone controls provide more than 40 dB of Bass and Treble cut without affecting the vocal midrange (see Fig. 4).
• An assignable Effects Loop allows a stereo effect to be inserted in Pre-Fader Program 1, Pre-Fader Program 2, or Master at the press of a switch.
• Each Phono Input employs 18 dB per octave Rumble filters.

Other Features

• Two Phono and two Line inputs with high quality, long-life clickless transform selector switches.
• Balanced Mic input with Bass and Treble tone controls and independent Effects Loop.
• Balanced ¼“ TRS and unbalanced RCA Master Outputs.
• Dual mono 10-segment level meters with peak hold, indicate level for Programs 1 and 2.
• Headphone monitor for Master program allows rehearsal with Master level turned down.
• Stereo Headphone Cue pans between Programs 1 and 2.
• Lexan™ face plate insures sharp appearance for years to come.
Figure 1. Crossfader Contour control

Figure 2. Input Fader Contour control switch positions at -6, -20 and -30 dB down points at the 50% fader position.

Lexan is a registered trademark of GE
### Paramater Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
<th>Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Phono Inputs:</strong></td>
<td>RIAA</td>
<td>See Fig. 3</td>
</tr>
<tr>
<td>...Number</td>
<td>2 Stereo</td>
<td></td>
</tr>
<tr>
<td>...Gain</td>
<td>40 dB</td>
<td>1 kHz</td>
</tr>
<tr>
<td>...Rumble Filter</td>
<td>20 Hz</td>
<td>18 dB/oct. Butterworth, See Fig. 3</td>
</tr>
<tr>
<td><strong>Line Inputs:</strong></td>
<td>2 Stereo</td>
<td></td>
</tr>
<tr>
<td>...Gain</td>
<td>12 dB</td>
<td>unbalanced out</td>
</tr>
<tr>
<td>...Gain</td>
<td>18 dB</td>
<td>balanced out</td>
</tr>
<tr>
<td>...Frequency Resp.</td>
<td>10 Hz-30 kHz</td>
<td>+0.3 dB</td>
</tr>
<tr>
<td>...Noise</td>
<td>-98 dB — re +4 dBu, 20 kHz BW, unity gain</td>
<td></td>
</tr>
<tr>
<td>...-87 dB — re +4 dBu, 20 kHz BW, max. gain</td>
<td></td>
<td></td>
</tr>
<tr>
<td>...THD+N</td>
<td>&lt;0.1% typical</td>
<td>re 0 dBu, 20-20kHz, 80 MHz BW</td>
</tr>
<tr>
<td>...Control Feedthrough:</td>
<td>&lt; -80 dB</td>
<td>re +4 dBu, all controls</td>
</tr>
<tr>
<td>...Crossstalk</td>
<td>&lt; -70 dB</td>
<td>re +4 dBu, 1 kHz</td>
</tr>
<tr>
<td><strong>Mic:</strong></td>
<td>Balanced ¼” TRS (tip-ring-sleeve)</td>
<td></td>
</tr>
<tr>
<td>...Gain</td>
<td>60 dB — balanced output, maximum gain</td>
<td></td>
</tr>
<tr>
<td>...Response &amp; EQ</td>
<td>See Fig. 5</td>
<td></td>
</tr>
<tr>
<td>...Noise</td>
<td>-70 dB — re +4 dBu, 20 kHz BW, max. gain</td>
<td></td>
</tr>
<tr>
<td>...CMRR</td>
<td>&gt;40 dB</td>
<td>re +4 dBu, 1 kHz</td>
</tr>
<tr>
<td>...Effects Loop</td>
<td>Independent</td>
<td>Non-Switched</td>
</tr>
<tr>
<td><strong>PGM Tone Controls:</strong></td>
<td>Accelerated-Slope™ 24 dB/octave band-split</td>
<td></td>
</tr>
<tr>
<td><strong>PGM Assignable Effects Loop:</strong></td>
<td>Effects Switch Select Logic — PGM 1/PGM 2</td>
<td></td>
</tr>
<tr>
<td>...Off/Off</td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td>...On/Off</td>
<td>Pre-Fader PGM 1</td>
<td></td>
</tr>
<tr>
<td>...Off/On</td>
<td>Pre-Fader PGM 2</td>
<td></td>
</tr>
<tr>
<td>...On/On</td>
<td>Master</td>
<td></td>
</tr>
<tr>
<td><strong>Metering:</strong></td>
<td>Dual Mono</td>
<td>10 segment</td>
</tr>
<tr>
<td>...Post Program Fader</td>
<td>1 second peak hold</td>
<td></td>
</tr>
<tr>
<td>Max. Current:</td>
<td>750 mA rms from remote supply</td>
<td></td>
</tr>
</tbody>
</table>

### Unit: Agency Listing

- **120 VAC model**
  - Class 2 Equipment
  - UL
  - CSA
  - CE-EMC
  - CE-Safety exempt

- **230 VAC model**
  - CE-EMC
  - EMC 89/336/EEC
  - CE-Safety exempt art. 1 LV 73/23/EEC

### Power Supply: Agency Listing

- **120 VAC model**
  - UL
  - CSA
  - CE-EMC

- **230 VAC model**
  - CE-EMC
  - EMC 89/336/EEC

### Unit: Size

- 3”H x 9”W x 11.75”D (19 x 51 x 27 cm)

### Weight

- 11 lb (5 kg)

Note: All specifications are typical unless otherwise stated.
FEATURE
Accelerated-Slope™ 40 dB Cut Tone Controls
Assignable Effects Loop
Highpass Rumble Filters
Long-Life, Low-Noise VCA Input Faders
Front Panel Input Fader Contour Control
Hamster Reversal Switch For Input Faders
Long-Life, Low-Noise Crossfader
Crossfader Contour Control
Crossfader Hamster Reversal Switch
High Output, Low Distortion Headphone Amp
True L+R Dual Mono Metering With Peak Hold
High Resolution Meter Display
Mic Effects Loop
Greater Than 110 dB Dynamic Range
High-Quality, Glass Epoxy PCBs
Made In the USA

RANE TTM 54i PERFORMANCE MIXER
YES (+10, -40)
YES (PGM 1, PGM 2 or Master)
YES (18 dB/Oct., each phono input)
YES
YES (VCA)
YES (high accuracy, active)
YES
YES
YES
YES (200 mW @ .1% THD+N, 150 W)
YES
YES (10 segment)
YES
YES
YES
YES

BRAND X PERFORMANCE MIXER
NO (±15 dB)
NONE
NONE
NO (passive)
NO (internal 3-position)
NO
YES (light-driven resistor)
YES
NO
NO (25 mW @ 1.2% THD+N, 150 W)
NO (left channel only/no peak hold)
NO (7 segment)
NO
NO (±100 dB)
NO (single-sided phenolic)
NO