

# Appendix C: Technical Information

## Specifications

### Distortion (THD + N)

(1 kHz, 30 kHz bandwidth)	
Mic mono:	<0.007% high gain <0.005% low gain
Line mono:	<0.005% low gain
Line stereo	<0.01% at main out

### Main mix output noise

(1 kHz, 30 kHz bandwidth)	
Main mix level down, all channel levels down:	-95 dBu
Main mix level 0 dB, all channel levels down:	-86 dBu
Main mix level 0 dB, all channel levels 0 dB:	-77 dBu

### Frequency Response

(+0 dB/-3 dB)	
Mic mono input:	< 10 Hz-80 kHz
Line mono inputs:	< 10 Hz-40 kHz
Line stereo inputs:	< 10 Hz-75 kHz

### Equivalent Input Noise (EIN)

Mic input (20 Hz – 20 kHz)	
150 $\Omega$ termination:	-128 dBu

### Gain

Mic mono input:	45 dB high gain 25 dB low gain
Line mono inputs:	20 dB high gain 0 dB low gain
Line stereo inputs:	0 dB

### Maximum Levels

Mic mono input:	-25 dBu high gain -5 dBu low gain
Line mono inputs:	+21 dBu low gain +1 dBu high gain
Line stereo inputs:	+21 dBu
Preamp main and monitor outputs:	+21 dBu

### Impedances

Mic mono input, balanced:	3.6 k $\Omega$ balanced
Line mono input, balanced:	20 k $\Omega$ balanced
Line mono input, Ch 5, 6 Hi-Z:	500 k $\Omega$ unbalanced
Main and monitor preamp outputs:	240 $\Omega$ balanced 120 $\Omega$ unbalanced

### Channel EQ

High Shelving (all channels)	$\pm 15$ dB @ 12 kHz
Mid Mono Channels:	
Mid Peaking, sweepable	$\pm 15$ dB
Mid sweep range:	100 Hz to 8 kHz
Mid Stereo Channels:	
Hi Mid Peaking:	$\pm 15$ dB @ 2.5 kHz
Lo Mid Peaking:	$\pm 15$ dB @ 400 kHz
Low Shelving (all channels)	$\pm 15$ dB @ 80 Hz

### 9-Band Graphic EQ

Main and Monitor 1:	$\pm 15$ dB @ 63, 125, 250, 500, 1k, 2k, 4k, 8k and 16 kHz
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### Connections

Mic input:	XLR balanced
Line mono input:	1/4" TRS balanced
Line stereo input:	1/4" TRS unbalanced
Preamp main outputs:	1/4" TRS balanced
Monitor outputs:	1/4" TRS balanced
Inserts:	1/4" TRS unbalanced
Loudspeaker outputs:	1/4" TS and Neutrik Speakon

### Loudspeaker outputs

(Both channels loaded and driven at 1 kHz.)	
Peak output power @ 4 $\Omega$ :	2 x 800 W peak
Average output power @ 4 $\Omega$ :	2 x 400 W rms, 1% THD 2 x 500 W rms, 3% THD
Average output power @ 8 $\Omega$ :	2 x 250 W rms, 1% THD 2 x 300 W rms, 3% THD
Recommended load impedance:	4 – 8 $\Omega$ per side

### Running Man Effects

Type:	32-bit internal processor, mono in, stereo out
Effects presets:	24 Mackie-designed presets

### Power Consumption

120 VAC, 50/60 Hz,  
680 watts

### Dimensions (H x W x D)

12.3" x 19.3" x 11.4"  
(314 mm x 490 x 290)

### Weight

24.5 lb (11.1 kg)

### Top Speed

13 knots

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Please check our website in case there are any corrections and updates to this manual: [www.mackie.com](http://www.mackie.com).

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