

PRODUCT DETAILED SPECIFICATIONS

MACKIE 1642-VLZ PRO 16 CHANNEL PROFESSIONAL MIXER



MACKIE 16 CHANNEL MIXER



NEW!
1642-VLZ PRO™
16x4x2 compact mixer
10 XDR™ mic preamps



WARM, DETAILED SOUND

0.0007% THD

NEAR DC-TO-LIGHT BANDWIDTH

**OVER 130dB DYNAMIC RANGE
FOR 24-BIT, 192KHZ SAMPLING
RATE INPUTS**

**ULTRA-LOW IM DISTORTION
AND E.I.N. AT NORMAL
OPERATING LEVELS**

IMPEDANCE INDEPENDENT

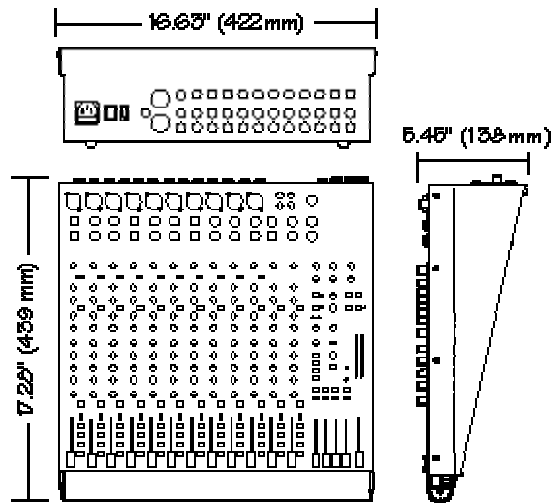
**BEST RF REJECTION OF ANY
MIXER AVAILABLE**

- Ultra-low noise, high headroom
- 16 channels (8 mic/line plus 2 stereo mic/line plus 2 stereo line)
- 10 new precision-engineered **XDR**(™) Extended Dynamic Range premium studio-grade mic preamps with:
 - Ultra-wide 0-60dB gain range
 - 130dB dynamic range for 24-bit, 192kHz sampling rate inputs
 - +22dBu line input handling
 - Distortion under 0.0007% THD (20Hz-20kHz)
- 48V phantom power
- 8 TRS channel inserts
- Advanced DC pulse transformer RF rejection
- 60mm long-wearing log-taper faders
- 4 aux sends, level, pan, -20dB and OL LEDs on each channel
- 4 stereo aux returns, 8 direct outs
- 3-band active EQ with sweepable midrange on mono channels
- 4-band active EQ on stereo channels

- 18dB/oct. 75Hz Lo-Cut filters on mic channels
- Control Room and Phones outputs with multi-input source matrix and separate level controls for each
- Balanced inputs & outputs (except inserts)
- Steel chassis, sealed rotary controls
- Rack mountable

1642-VLZ PRO™ Specifications

Mic Preamp	
Equivalent Input Noise (20Hz-20kHz)	
150 ohm	-129.5 dBu
50 ohm	-131.0 dBu
0 ohm	-134.5 dBu
Frequency Response	
-1dB	5Hz to
-3dB	3Hz to
IM Distortion (4 to 1 ratio SMPTE)	
35dB gain	0.0008%
Harmonic Distortion (20Hz-20kHz)	
35dB gain	0.0007%
Gain	
Max	+60dB
Min	0dB or Unity
Max Input	+22dB
Input Impedance	1.3k Ohm
Common Mode Rejection	> 90dB
Common Mode Rejection Ratio	> 140dB
Main Mix Noise	
20Hz-20kHz bandwidth. 1/4" Main out.	
Main Mix Fader @ unitv.	-90.5dBu



Frequency Response	
Any input to any output	
+0dB/-1dB	20Hz to 60kHz
+0dB/-3dB	20Hz to 100kHz
Maximum Levels	
Mic in:	+22dBu
All other inputs:	+22dBu
Main Mix XLR out:	+28dBu
All other outputs:	+22dBu
Impedances	
Mic in:	1.3 kilohms
Channel Insert return:	2.5 kilohms
All other inputs:	10 kilohms or
Tape out:	1.1 kilohms
All other outputs:	120 ohms
3 Band EQ (Channels 1-8)	
High Shelving	±15db @12kHz

channel faders down:	
Main Mix Fader @ unity, channel faders @ unity:	-90.5dBu
Total Harmonic Distortion (THD)	
1kHz @ +14dBu, 20Hz-20kHz.	
	0.005%
Attenuation (Crosstalk)	
1kHz relative to 0dBu, 20Hz-20kHz bandwidth, Line in, 1/4" Main Out, Trim @ unity	
Channel Mute switch engaged:	-84dBu
Channel Fader down:	-84dBu

High Shelving	±15db @12kHz
Mid Peaking	±15dB, Sweep 100Hz -8kHz
Low Shelving	±15db @ 80Hz
Low Cut Filter:	18dB/Octave, -3dB @ 75Hz
3 Band EQ (Channels 9-16)	
High Shelving	±15db @12kHz
Hi Mid Peaking:	±15dB @ 3kHz
Lo Mid Peaking:	±15dB @ 800kHz
Low Shelving:	±15db @ 80Hz
Low Cut Filter:	18dB/Octave, -3dB @ 75Hz
Power Consumption:	
120VAC, 50/60Hz, 50 watts	
Fuse Ratings :	
120V	1A Slo Blo, 5 x 20mm
220-240V	0.5A Slo Blo, 5 x 20mm
Weight:	
18.2 lbs (8.3 kg)	
Rack Mounting :	
Optional rack ears are available which will allow the 1642-VLZ PRO to be mounted in a standard 19" rack. Allow ten rack spaces for the unit, and allow two empty rack spaces on top (for room to plug anything in).	

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