



## 1642VLZ4

The 16-channel 1642VLZ4 delivers the proven performance of Onyx preamps in a compact 4-bus mixer design, perfect for bands, clubs and more.

From every input to every output, the 1642VLZ4 is designed to provide the highest headroom and lowest noise possible for maximum signal integrity.

Plus, it is truly “Built-Like-A-Tank” with a ridiculously rugged solid-steel chassis that includes high-contrast controls for ultimate tactile control.

And with features like an expanded return section for no-hassle system integration, plus a dedicated control room section, the 1642VLZ4 is the go-to mixer choice for any application that demands flexibility and professional performance.

### APPLICATIONS:

Live sound mixing, houses of worship, clubs, gymnasiums, banquet halls, conference rooms, boardrooms, multitrack studio and field recording, video post-production, multimedia applications, broadcast and many, many more.



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### FEATURES:

- 16-channel mixer featuring our signature high-headroom, low-noise design
- 10 boutique-quality Onyx mic preamps
  - Ultra-wide 60 dB gain range
  - 128.5 dB dynamic range
  - +22 dBu line input handling
  - Extended frequency response
  - Distortion under 0.0007% [20 Hz – 50 kHz]
- Improved RF rejection, perfect for broadcast applications
- Phantom power for condenser mics
- 16 high-headroom line inputs with +4/–10 operation control
- 3-band EQ (80 Hz, 2.5 kHz, 12 kHz)
- 18 dB/oct 75 Hz low-cut filter on mic input channels
- Four aux sends, level, pan and PFL solo on each channel
- Four stereo returns for connecting FX processor or other stereo source
- 60 mm long-wearing log-taper faders
- ALT 3/4 stereo bus for added routing flexibility
- Control room / phones source matrix
- High-resolution 12-segment stereo meters
- Sealed rotary controls resist dust and grime
- “Built-Like-A-Tank” rugged steel chassis with powder-coat finish
- High-visibility, high-contrast controls deliver convenient “at-a-glance” visual feedback
- Rack-mountable design using optional rack ear kit
- Multi-voltage power supply for worldwide use



# 1642VLZ4

16-Channel 4-Bus  
Compact Mixer

## 1642VLZ4 SPECIFICATIONS

### Main Mix Noise

(20 Hz–20 kHz bandwidth, 1/4" main out, channel gains @ unity, channel EQs flat, all channels assigned to main mix, odd channels panned left, even channels panned right.)

Main mix fader unity, channel faders down: -86.5 dBu

(90 dB Signal to Noise Ratio, ref +4 dBu)

Main mix fader @ unity, channel faders @ unity: -86 dBu

### Total Harmonic Distortion (THD)

(1 kHz @ 35 dB gain, 20 Hz–20 kHz bandwidth)

Mic in to insert send <0.0007%

### Attenuation / Crosstalk

(1 kHz relative to 0 dBu, 20 Hz–20 kHz bandwidth, line in, 1/4" main out, gain @ unity)

Channel mute switch engaged -82 dBu

Channel gain knob down -82 dBu

### Frequency Response

Mic input to main output (gain @ unity)

+0, -1 dB, 20 Hz to 50 kHz

+0, -3 dB, <10 Hz to >100 kHz

### Equivalent Input Noise (EIN)

(Mic input to insert send out, max gain)

150 Ω termination -128.5 dBu  
20 Hz–20 kHz

### Common Mode Rejection Ratio (CMRR)

1 kHz better than -70 dB

### Maximum Levels

Mic in +22 dBu

All other inputs +22 dBu

Main mix TRS out and XLR out +28 dBu

All other outputs +22 dBu

### Impedances

Mic in 2.5 kΩ

Channel insert return 2.5 kΩ

All other inputs 10 kΩ or greater

Tape out 1.1 kΩ

All other outputs 120 Ω

### 3-Band EQ (Channels 1-8)

High Shelving ±15 dB @ 12 kHz

Mid Peaking ±15 dB sweep 100 Hz – 8 kHz

Low Shelving ±15 dB @ 80 Hz

Low Cut Filter 18 dB/octave, -3 dB @ 75 Hz

### 4-Band EQ (Channels 9-16)

High Shelving ±15 dB @ 12 kHz

Hi Mid Peaking ±15 dB @ 2.5 kHz

Low Mid Peaking ±15 dB @ 400 Hz

Low Shelving ±15 dB @ 80 Hz

Low Cut Filter 18 dB/octave, -3 dB @ 75 Hz

### AC Power Requirements

Power Consumption 50 watts

US, JP 100 – 120 VAC, 50 – 60 Hz

EU, UK, AU, CN 200 – 240 VAC, 50 – 60 Hz

Operating Temperature 0° – 40°C

32° – 104°F

### Fuse Rating

100-120V 1A slo blo, 5 x 20 mm

220-240V 0.5A slo blo, 5 x 20 mm

### Physical Properties (product)

Height 16.7 in / 425 mm

Depth 5.2 in / 131 mm

Width 16.6 in / 421 mm

Weight 18.2 lb / 8.3 kg

### Physical Properties (packaged product)

Height 9.4 in / 239 mm

Depth 19.9 in / 505 mm

Width 21.3 in / 541 mm

Weight 21.0 lb / 9.5 kg

### Ordering Information

1642VLZ4 16-Channel Compact 4-Bus Mixer, US P/N 2040766-00

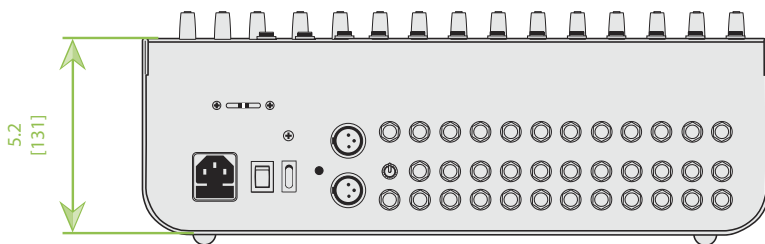
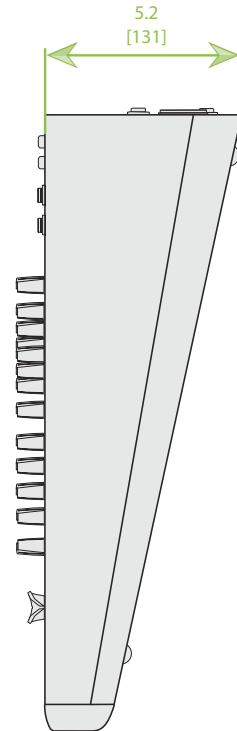
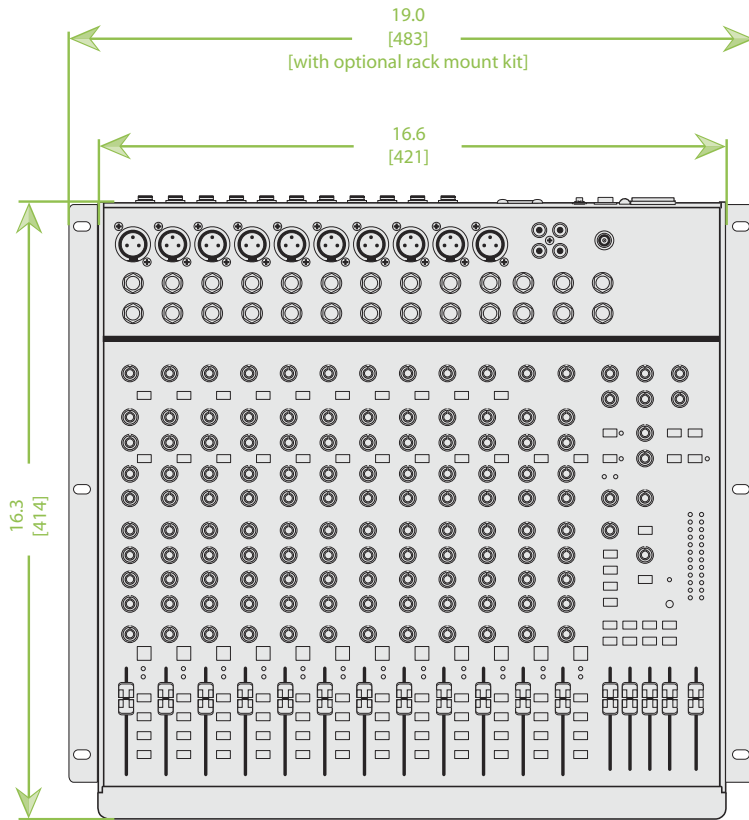
1642VLZ4 16-Channel Compact 4-Bus Mixer, EU P/N 2040766-01

1642VLZ4 16-Channel Compact 4-Bus Mixer, AU P/N 2040766-04

1642VLZ4 16-Channel Compact 4-Bus Mixer, CN P/N 2040766-05

1642VLZ4 16-Channel Compact 4-Bus Mixer, BZ P/N 2040766-06

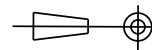
### 1642VLZ4 DIMENSIONS



#### NOTES:

1. WEIGHT APPROX. 18.2 lb [8.3 kg]
2. SHIPPING WEIGHT APPROX. 21.0 lb [9.5 kg]

THIRD ANGLE PROJECTION



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UNLESS OTHERWISE SPECIFIED:  
ALL DIMENSIONS ARE IN INCHES  
DUAL [MM] DIMENSIONS  
FOR REF ONLY

TOLERANCE IN INCHES  
LINEAR  $\pm 0.13$  in /  $\pm 3.3$  mm  
ANGLES  $\pm 1^\circ$

(X.XX) = REF DIMS  
NO TOLERANCE IMPLIED

TSC = THEORETICAL SHARP CORNER

DIMENSIONS ACROSS CENTERLINES  
TO BE SYMMETRICAL

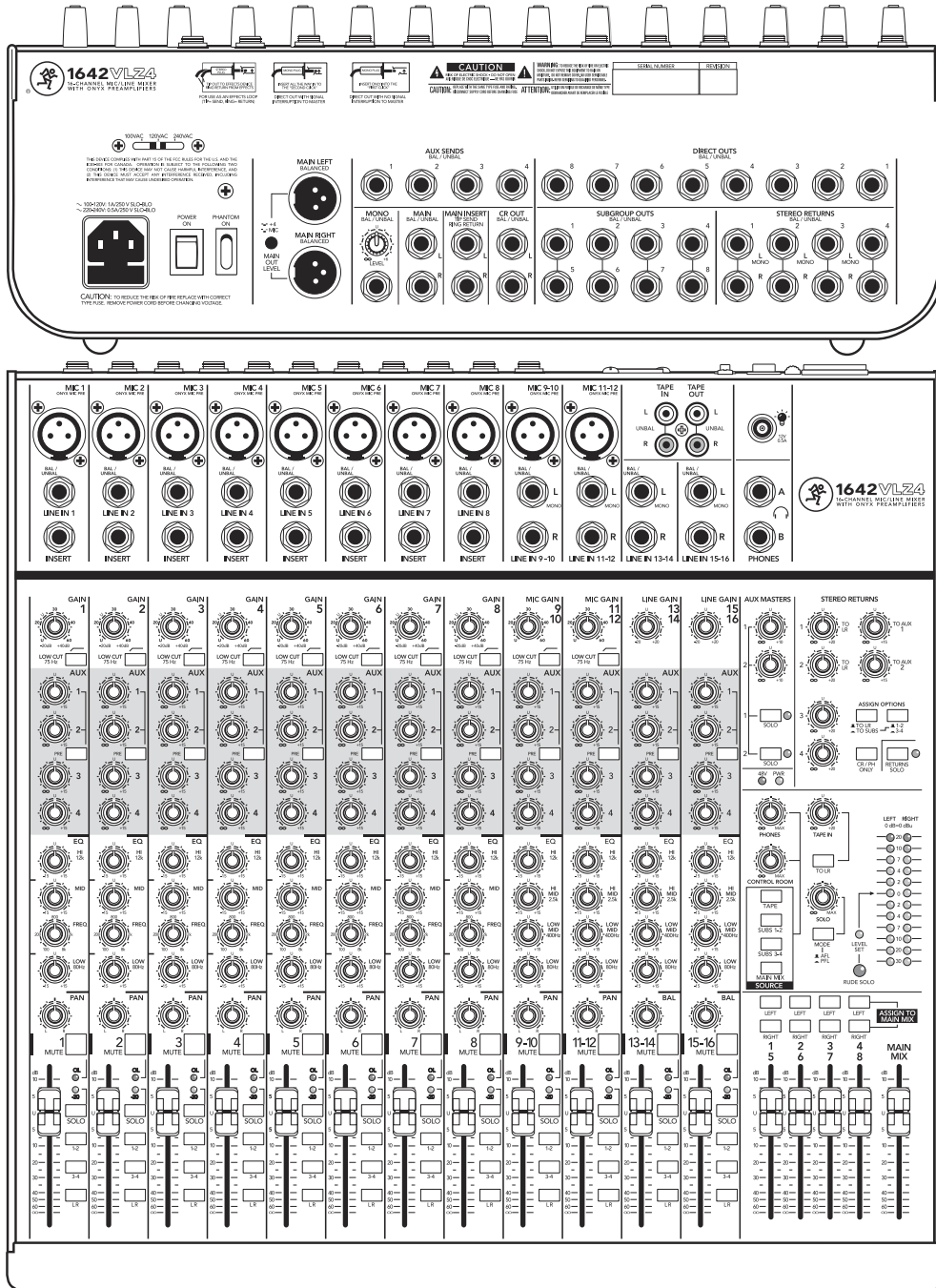




# 1642VLZ4

## 16-Channel 4-Bus Compact Mixer

### 1642VLZ4 FRONT AND REAR PANEL



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Electronic files for this product are available at:  
[www.mackie.com](http://www.mackie.com)

Specification Sheet 1642VLZ4\_SS.PDF

Owner's Manual 1642VLZ4\_OM.PDF



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