

## 1402-VLZ3

The 1402-VLZ3 continues the evolution of the Mackie VLZ mixers. With improved XDR2™ mic preamps, a re-designed mix bus, and optimized active EQ on every channel, the 1402-VLZ3 is packed with premium features and maximum flexibility. Plus, it is the smallest mixer in the series to boast channel faders for a decidedly professional look and feel.

The 1402-VLZ3 is equipped with six mono mic/line channels and four stereo line-input channels, for a total of 14 input channels. Each channel has a 3-band EQ, Aux 1 and 2 sends, Pan, Mute/Alt, Solo and a 60mm fader. In addition, the mic/line channels have phantom power, an input Gain control with 60 dB of gain, a sharp 18 dB/octave, 75 Hz Low Cut filter and a Channel Insert jack for connecting an external processor.

The Mute/Alt 3-4 switch effectively creates a second stereo bus. The Mute button on each channel mutes that channel in the Main Mix, but also acts as a router to the 3-4 stereo bus, greatly increasing signal routing flexibility.

The Control Room/Phones section has its own level control, outputs and input matrix for selecting any combination of Main Mix, Tape In and Alt 3-4 to create custom headphone mixes, to monitor tape levels and more. A separate switch routes this multi-source signal back into the Main Mix.

Aux Send 1 has a master level control and a switch for selecting pre- or post-fader send, whereas Aux Send 2 is a fixed post-fader send, perfect for effects loops. There are two stereo returns, with a switch to route Stereo Return 2 to Aux Send 1 (to include reverb in the monitors, for example).

Other features include a stereo tape input and output, a 1/4-inch stereo headphone jack, stereo 12-segment LED meters, and both TRS and XLR stereo output jacks, with a mic/line level switch on the XLR outs.

Because of its many features and versatility, the 1402-VLZ3 may be used for extra studio-grade preamps, as aux inputs for a mixing console, or as an impedance- or level-matching audio toolkit. And the mix will surely benefit from the tactile interaction with the channel faders.

## APPLICATIONS

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



## FEATURES:

- Ultra-compact 14-channel mixer featuring Mackie VLZ3's signature low noise, high-headroom design
- Six studio-grade XDR2™ Extended Dynamic Range mic preamps with:
  - Ultra-wide 60 dB gain range
  - 130 dB dynamic range
  - +22 dBu line input handling
  - Extended low-frequency response
  - Distortion under 0.0007% (20 Hz – 20 kHz)
  - Phantom power for studio condenser mics
- 14 high-headroom line inputs
- Advanced DC pulse transformer RF rejection
- Two aux sends, level, pan, and PFL solo on each channel
- 60mm long-wearing logarithmic taper faders
- Two stereo aux returns with EFX to Monitor switch
- 3-band active EQ (80 Hz, 2.5 kHz, 12 kHz)
- 18 dB/octave, 75 Hz low-cut filter on mic input channels
- Alt 3-4 stereo bus for added versatility
- Control room/phones source matrix
- Rack-mountable design using optional rack ears
- Sealed rotary controls to resist dust and grime
- Multi-voltage power supply for worldwide use
- Rugged steel chassis

## 1402-VLZ3 SPECIFICATIONS

### Noise Characteristics

(Mic in to Insert Send out, max gain)	
150 Ω termination	-129.5 dBu
(20 Hz to 20 kHz bandwidth, 1/4" Main Out, channels 1-6 Gain @ unity gain, channel EQs flat, all channels assigned to Main Mix, channels 1, 3, and 5 panned left, 2, 4, and 6 panned right)	
Main Mix fader down, channel faders down	-101 dBu
Main Mix fader @ unity, channel faders down	-91 dBu
Main Mix fader @ unity, channel faders @ unity	-86 dBu
Signal-to-Noise Ratio, ref. +4 dBu	95 dBu

### Frequency Response

(Mic input to any output)	
20 Hz to 60 kHz	+0 dB / -1 dB
20 Hz to 200 kHz	+0 dB / -3 dB

### Distortion (THD+N)

(1 kHz @ 35 dB gain, 20 Hz to 20 kHz bandwidth)	
Mic pre @ insert	0.0007%

### Attenuation and Crosstalk

(1 kHz relative to 0 dBu, 20 Hz to 20 kHz bandwidth, Line In, 1/4" Main Out, Gain @ unity)	
Main Mix fader down	-100 dBu
Channel Alt/Mute switch engaged	-90 dBu
Channel fader down	-90 dBu

### Common Mode Rejection Ratio (CMRR)

(Mic In to Insert Send out, max gain)	
1 kHz	better than -70 dB

### Maximum Levels

Mic In	+22 dBu
Tape In	+16 dBu
All other inputs	+22 dBu
Main Mix XLR Out	+28 dBu
All other outputs	+22 dBu

### EQ

High Shelving	±15 dB @ 12 kHz
Mid Peaking	±15 dB @ 2.5 kHz
Low Shelving	±15 dB @ 80 Hz
Low Cut Filter	18 dB/octave, -3 dB @ 75 Hz

### Input and Output Impedance

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

### AC Power Requirements

Power Consumption	25 watts
US, JP	100 – 120 VAC, 50 – 60 Hz
Fuse rating	500 mA slo blo, 5 x 20 mm
EU	200 – 240 VAC, 50 – 60 Hz
Fuse rating	250 mA slo blo, 5 x 20 mm
Operating Temperature	0° – 40°C 32° – 104°F

### Physical Properties (packaged product)

Height	16.0 in / 406 mm
Width	16.1 in / 410 mm
Depth	7.0 in / 178 mm
Shipping Weight	14.2 lb / 6.4 kg

### Physical Properties (product)

Height	12.9 in / 329 mm
Width	14.0 in / 356 mm
Depth	3.2 in / 81 mm
Net Weight	9.5 lb / 4.5 kg

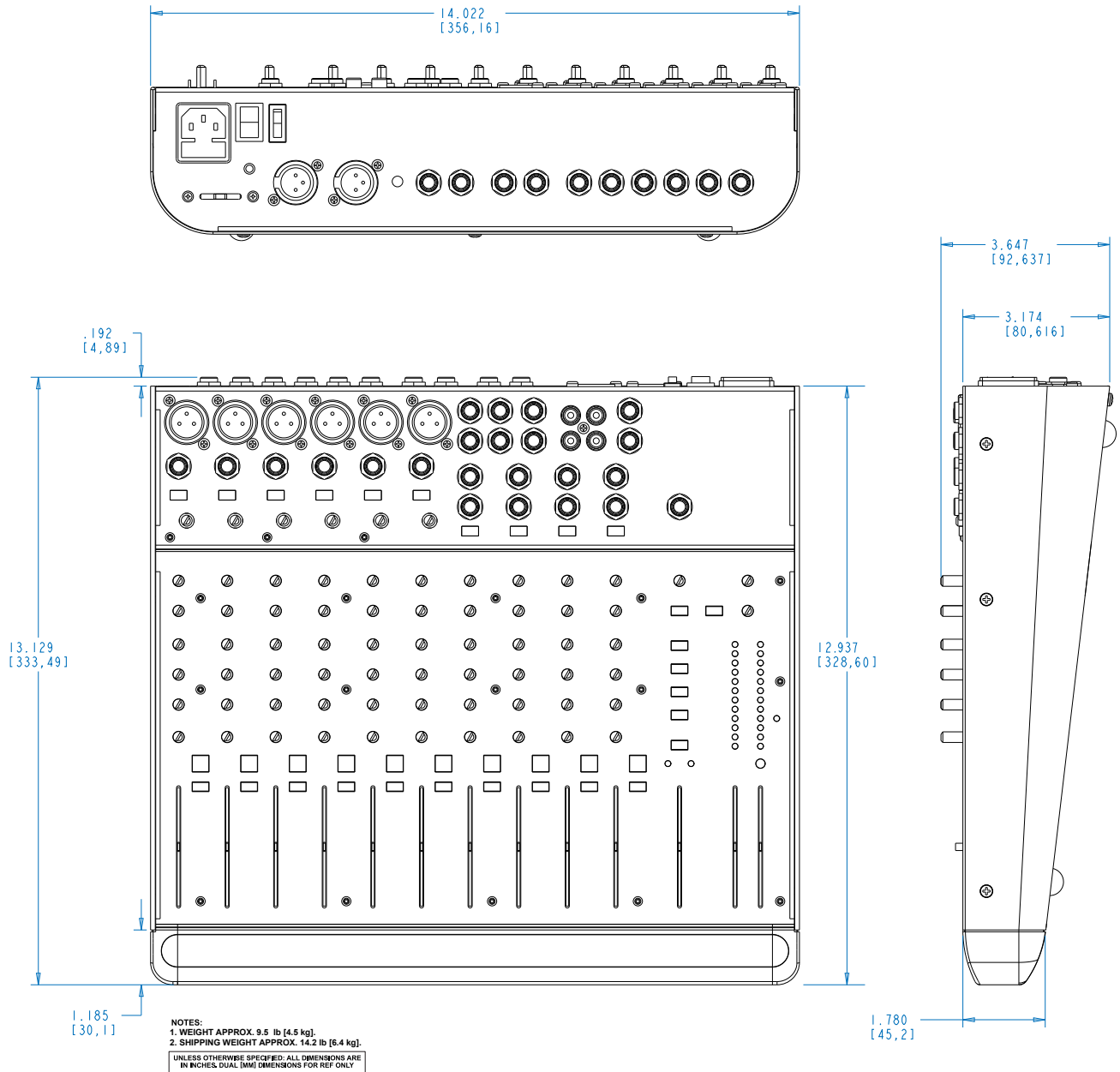
### Options

Rackmount Bracket Set	090-049-90
Mixer Bag	093-004-01

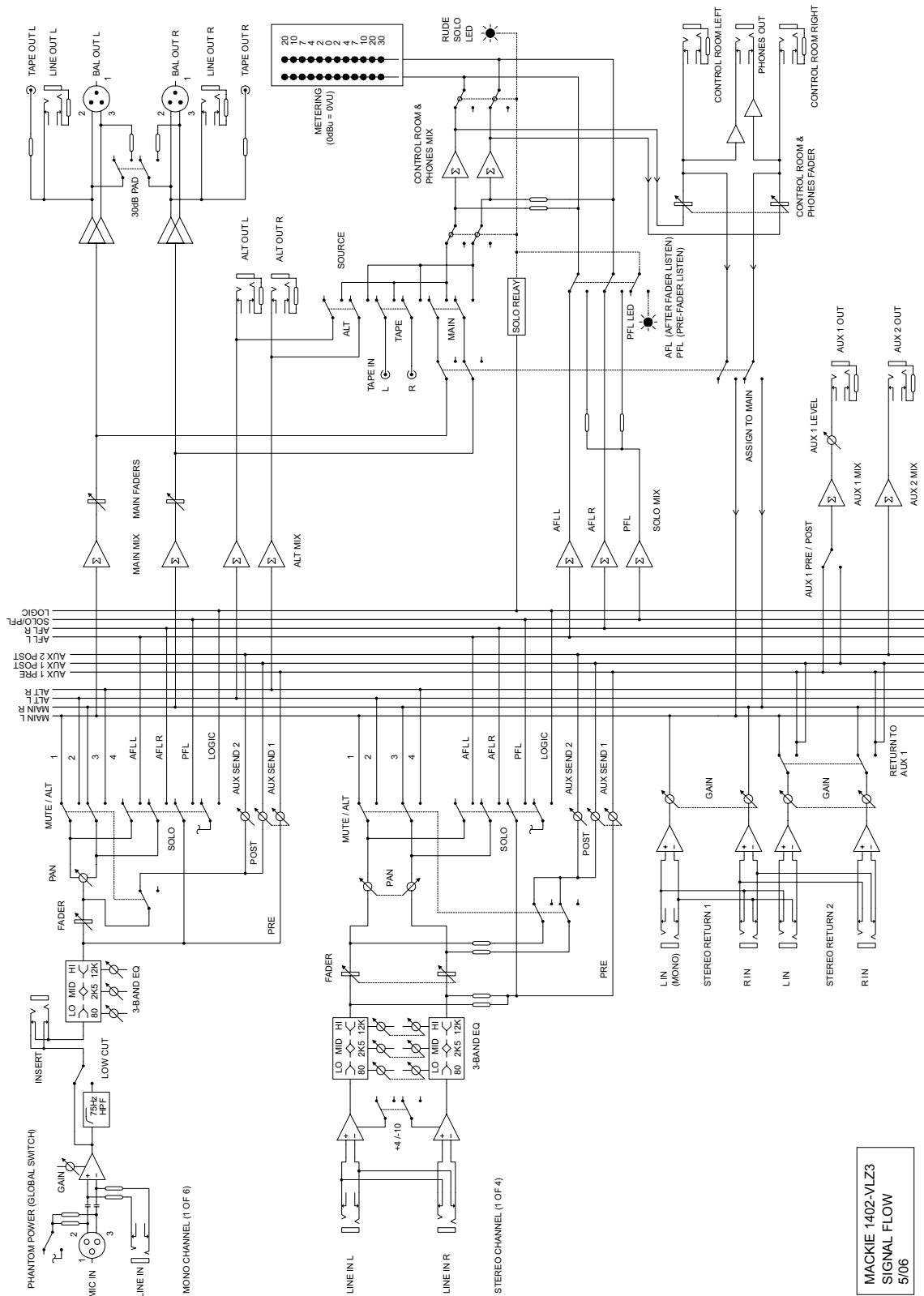
### Ordering Information

1402-VLZ3 14-Ch. Compact Recording/SR Mixer, US	P/N 0018453-00
1402-VLZ3 14-Ch. Compact Recording/SR Mixer, EU	P/N 0018453-01
1402-VLZ3 14-Ch. Compact Recording/SR Mixer, JP	P/N 0018453-02

## 1402-VLZ3 DIMENSIONS

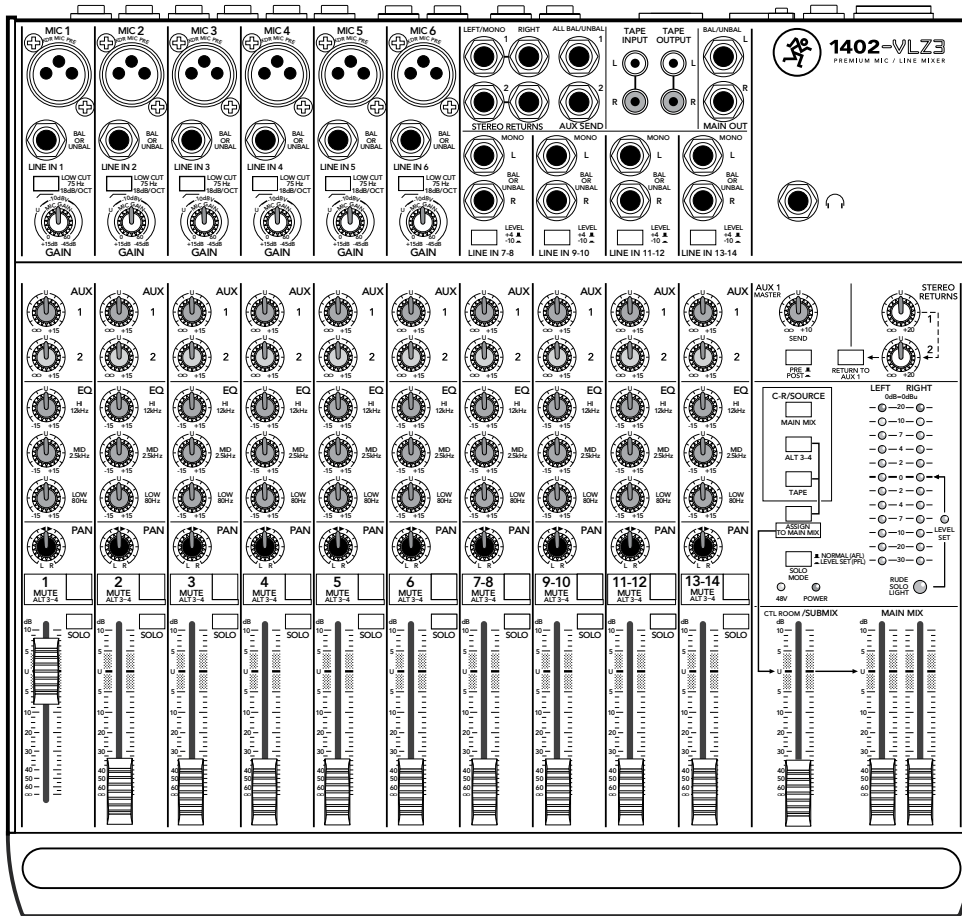
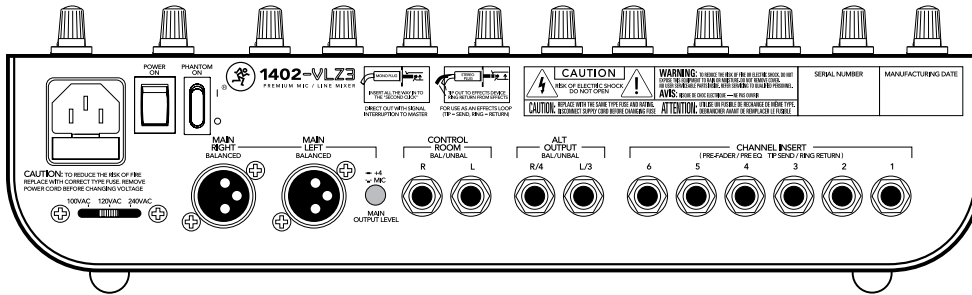


### 1402-VLZ3 BLOCK DIAGRAM



MACKIE 1402-VLZ3  
SIGNAL FLOW  
5/06

### 1402-VLZ3 FRONT AND REAR PANELS



Electronic files for this product are available at:

[www.mackie.com](http://www.mackie.com)

Specification Sheet

1402VLZ3\_SS.PDF

Owner's Manual

1402VLZ3\_OM.PDF

# MACKIE®

www.mackie.com

16220 Wood-Red Road NE

Woodinville, WA 98072 USA

800-898-3211, Fax 425-487-4337, sales@mackie.com

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