

## 2404 and 3204 VLZ3 4•Bus

The VLZ3 4•Bus takes the world-renowned Mackie 4•Bus Series mixers to a whole new level, including the addition of improved XDR2™ mic preamps, a redesigned mix bus, and optimized active EQ on every channel. Additionally, USB Recording and Playback, onboard dual RMFX+™ engines and eight individual compressors come standard on every VLZ3 4•Bus mixer.

The 2404-VLZ3 is equipped with 20 mono mic/line channels while the 3204-VLZ3 comes standard with 28 mono mic/line channels. Both mixers have two stereo channels with 4-band equalization, four group outputs and inserts, and XLR and TRS stereo and mono main outputs and inserts.

Each mono channel has an input Gain control with 60 dB of gain, a sharp 18 dB/octave, 100 Hz Low Cut filter, a 3-band EQ with sweepable mid, six Aux Sends, Pan, Mute, Solo, assign switches, a 60mm fader and a Channel Insert jack for connecting an external processor.

Other features include phantom power, mono and stereo monitor outputs, a stereo tape input and output, a 1/4-inch stereo headphone jack, a dedicated talkback XLR jack, stereo 12-segment LED meters, a BNC lamp socket, and six Aux Sends and Inserts.

Aux Sends 1-2 are pre-fader. Aux Sends 3-4 have a switch on each channel for selecting pre- or post-fader send, whereas Aux Sends 5-6 are a fixed post-fader send, perfect for effects loops. Auxes 1-6 have a master level control and all six Auxes are post-EQ. There are four stereo returns with various routing options for each return.

The VLZ3 4•Bus packs a unique 4x2 USB recording and playback function, 2-Track Return selection, and features two of Mackie's patented Running Man FX processors (RMFX+™) featuring 24 "gig-ready" effects, the returns of which may be routed into the last two stereo channels for maximum flexibility.

### 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.



### FEATURES:

- Premium 4•Bus FX Mixer with USB
- Studio-grade XDR2™ Extended Dynamic Range mic preamps with:
  - 130 dB dynamic range
  - Distortion under 0.0007% (20 Hz - 20 kHz)
  - Phantom power for studio condenser mics
- 4 subgroups, each with dedicated compressors
- Dedicated in-line channel compression for critical inputs
- 3-band active EQ with swept mid-frequency
- Dual 32-bit RMFX+™ processors featuring 24 "gig ready" effects including reverb, delay, and chorus
- Integrated 4x2 24-bit USB interface
  - Stream subgroups or master L/R to your laptop for recording
  - Use your favorite plug-in live via auxes 5/6
  - Convenient stereo return for music playback from laptop during breaks
- 6 aux sends with inserts, 1-2 pre, 3-4 pre/post switchable, 5-6 switchable to internal effects
- 18 dB/octave, 100 Hz low-cut filter on every mic input
- 60mm long-wearing logarithmic-taper faders
- All-steel, classic Mackie "Built-Like-A-Tank" chassis design
- Smallest footprint in class saves precious space
- Lightweight and portable
  - 2404-VLZ3: 31 lb / 14.1 kg
  - 3204-VLZ3: 39 lb / 17.7 kg

## VLZ3 4-Bus SPECIFICATIONS

### Noise Characteristics

(Mic in to Insert Send out, max gain)	
150 Ω termination:	-129.0 dBu
(20 Hz to 20 kHz bandwidth, 1/4" Main Out, channel gains @ unity gain, channel EQs flat, all channels assigned to Main Mix, odd channels panned left, even channels panned right)	
Main Mix fader @ unity, channel faders down	
2404-VLZ3:	-87.0 dBu (-91.0 dB Signal to Noise Ratio, ref +4 dBu)
3204-VLZ3:	-84.5 dBu (-88.5 dB Signal to Noise Ratio, ref +4 dBu)
Main Mix fader @ unity, channel faders @ unity	
2404-VLZ3:	-81.5 dBu
3204-VLZ3:	-80.0 dBu

### Frequency Response

(Mic input to any output)	
20 Hz to 50 kHz	+0 dB / -1 dB
20 Hz to 100 kHz	+0 dB / -3 dB

### Distortion (THD+N)

(1 kHz @ 15 dB gain, 20 Hz - 20 kHz bandwidth)	
Mic In to Insert Send	<0.001%
Mic In to Main Out	<0.005%

### Attenuation and Crosstalk

(1 kHz relative to +10 dBu, 20 Hz - 20 kHz bandwidth, Mic In, 1/4" Main Out, Gain @ unity)	
Channel Mute switch engaged	-90 dBu
Channel Fader down	-88 dBu

### Common Mode Rejection Ratio (CMRR)

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

### Maximum Levels

Mic In	+21 dBu
All other inputs	+21 dBu
Main Mix XLR Out	+27 dBu
All other outputs	+21 dBu

### 3-Band Equalization (mono channels)

Low	±15 dB @ 80 Hz
Mid	±15 dB sweep 100 Hz-8 kHz
High	±15 dB @ 12 kHz
Low Cut Filter	18 dB/octave, -3 dB @ 100 Hz

### 4-Band Equalization (stereo channels)

Low	±15 dB @ 80 Hz
Low-Mid	±15 dB @ 400 Hz
High-Mid	±15 dB @ 2.5 kHz
High	±15 dB @ 12 kHz

### USB

Format	USB 1.1
I/O	Stereo input, 4 channel output
A/D/A	24 bit, 44.1 kHz / 48 kHz

### Input and Output Impedance

Mic In	2.7 kΩ
Channel Insert Return	2.5 kΩ
All other inputs	10 kΩ or greater
Tape Out	<10 Ω
All other outputs	120 Ω

### AC Power Requirements

Power Consumption	55 watts (2404-VLZ3) 65 watts (3204-VLZ3)
Universal AC Power Supply	100 - 240 VAC, 50 - 60 Hz
Operating Temperature	0° - 40°C 32° - 104°F

### Physical Properties (packaged product)

Height	11.0 in / 279 mm (both)
Depth	25.0 in / 635 mm (both)
Width	35.0 in / 889 mm (2404-VLZ3) 44.0 in / 1118 mm (3204-VLZ3)
Shipping Weight	37 lb / 16.8 kg (2404-VLZ3) 44 lb / 20.0 kg (3204-VLZ3)

### Physical Properties (product)

Front Height	2.0 in / 50.8 mm (both)
Rear Height	6.0 in / 153 mm (both)
Depth	19.1 in / 486 mm (both)
Width	29.4 in / 748 mm (2404-VLZ3) 38.0 in / 964 mm (3204-VLZ3)
Weight	31 lb / 14.1 kg (2404-VLZ3) 39 lb / 17.7 kg (3204-VLZ3)

### Options

Dust Cover (2404-VLZ3)	P/N 093-008-00
Dust Cover (3204-VLZ3)	P/N 093-008-01

### Ordering Information

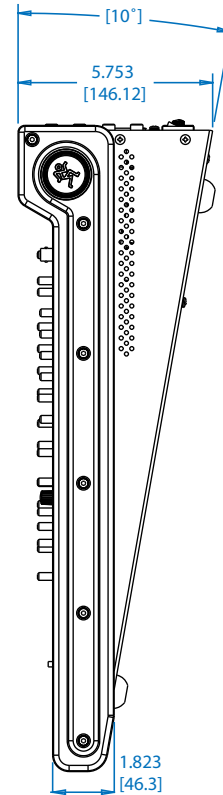
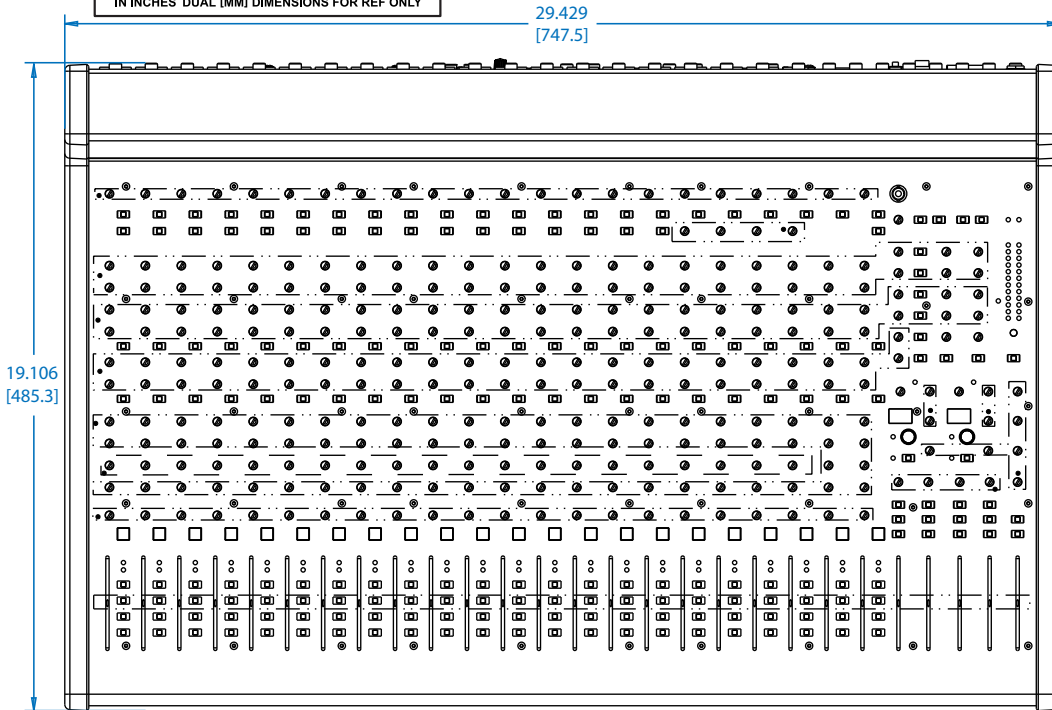
2404-VLZ3 24-Ch./4-Bus Premium FX Mixer with USB, US	P/N 2034206-00
2404-VLZ3 24-Ch./4-Bus Premium FX Mixer with USB, EU	P/N 2034206-01
2404-VLZ3 24-Ch./4-Bus Premium FX Mixer with USB, CN	P/N 2034206-05
3204-VLZ3 32-Ch./4-Bus Premium FX Mixer with USB, US	P/N 2034208-00
3204-VLZ3 32-Ch./4-Bus Premium FX Mixer with USB, EU	P/N 2034208-01
3204-VLZ3 32-Ch./4-Bus Premium FX Mixer with USB, CN	P/N 2034208-05

### VLZ3 4•Bus DIMENSIONS

**NOTES:**

- 1. WEIGHT APPROX. 31 lb [14.1 kg].
- 2. SHIPPING WEIGHT APPROX. 37 lb [16.8 kg].

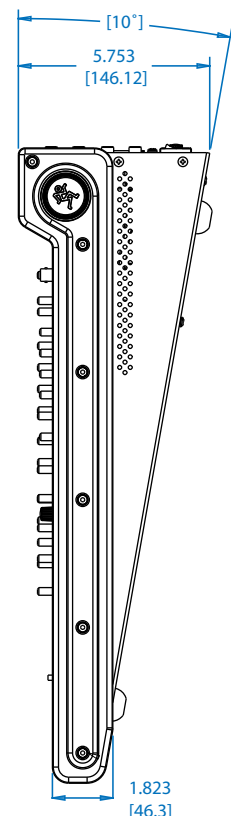
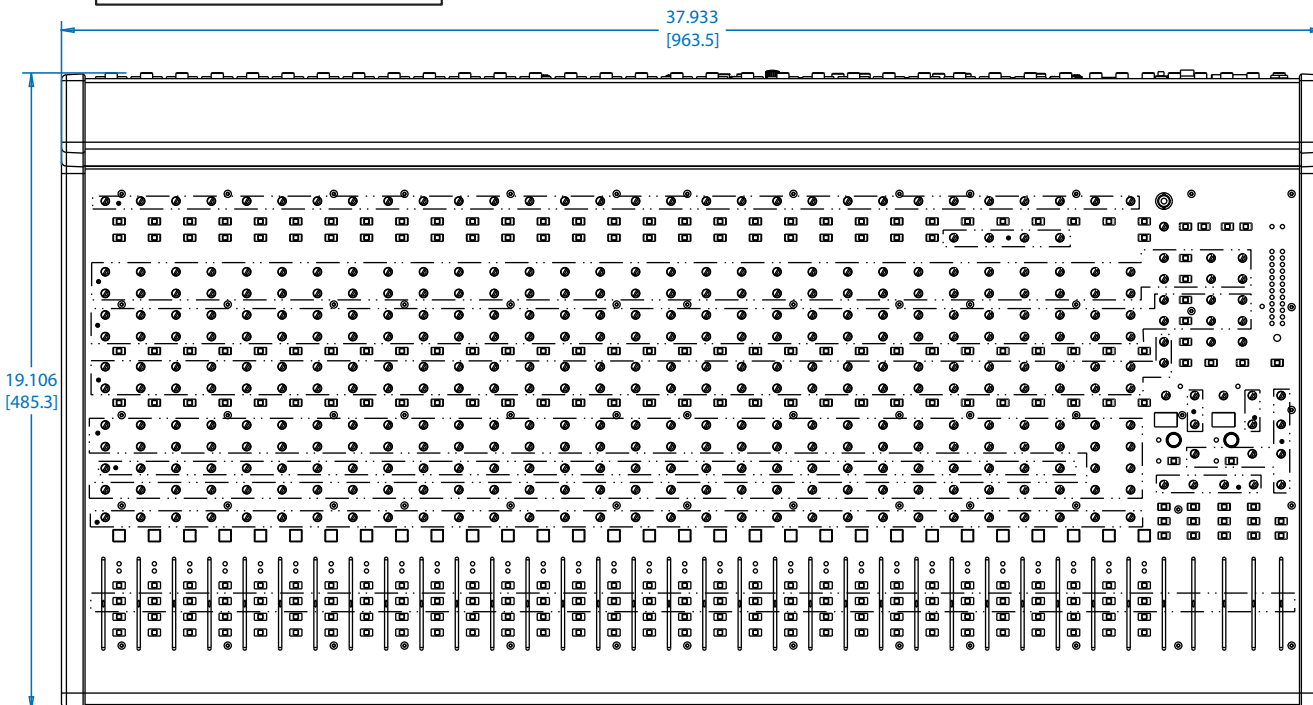
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES. DUAL [MM] DIMENSIONS FOR REF ONLY



**NOTES:**

- 1. WEIGHT APPROX. 39 lb [17.7 kg].
- 2. SHIPPING WEIGHT APPROX. 44 lb [20.0 kg].

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

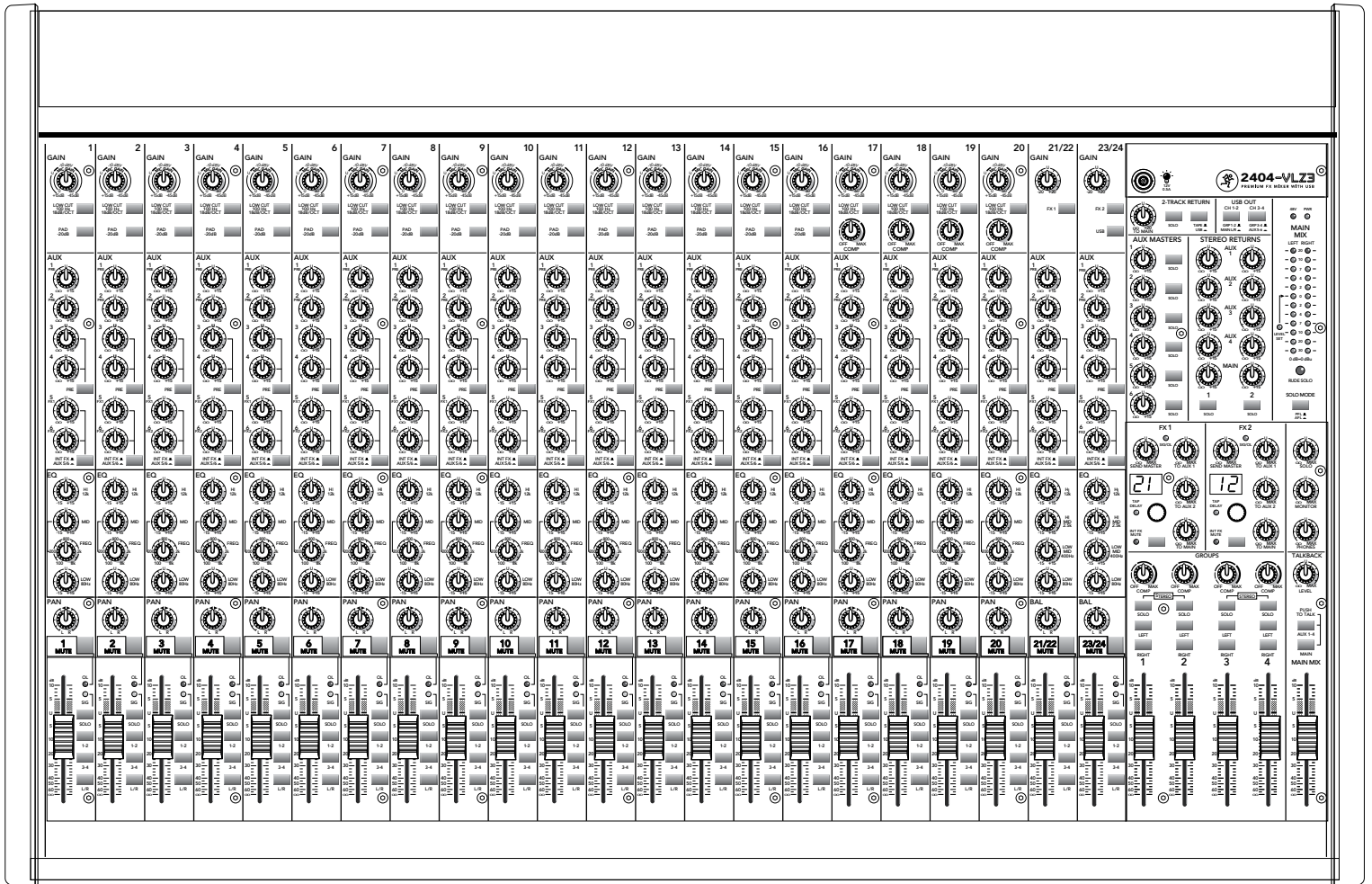
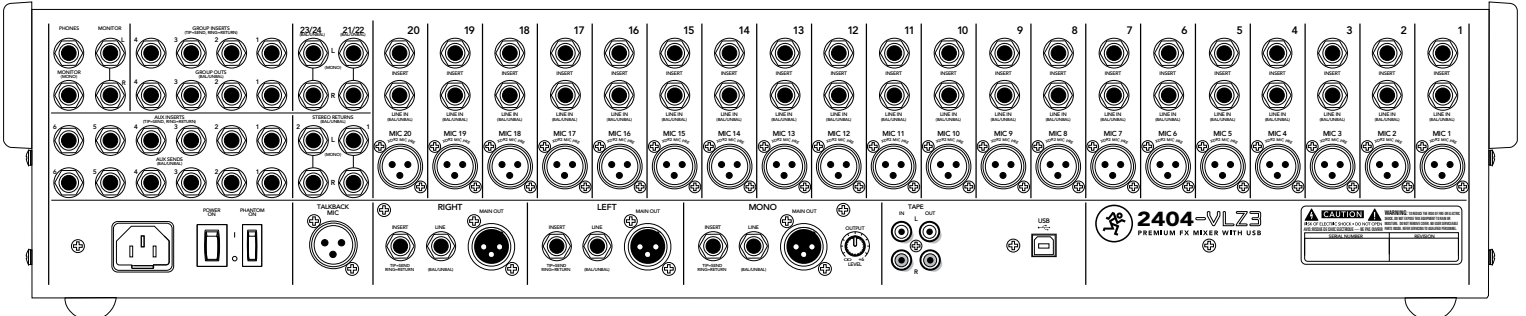


# MACKIE®

# VLZ3 4•Bus

## PREMIUM FX MIXER WITH USB

### VLZ3 4•Bus FRONT AND REAR PANELS (2404-VLZ3 shown)





Electronic files for this product are available at:

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

Specification Sheet	VLZ3_4BUS_SS.PDF
Owner's Manual	VLZ3_4BUS_OM.PDF

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