

1202-VLZ3

The 1202-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 1202-VLZ3 is packed with premium features and maximum flexibility.

The 1202-VLZ3 is equipped with four mono mic/line channels and four stereo line-input channels, for a total of 12 input channels. Each channel has a 3-band EQ, Aux 1 and 2 sends, Pan, Mute/Alt, Solo and a Level control. 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 TRS and XLR stereo output jacks, with a mic/line level switch on the XLR outs.

Because of its many features and versatility, the 1202-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.

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 12-channel mixer featuring Mackie VLZ3's signature low noise, high-headroom design
- Four 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
- 12 high-headroom line inputs
- Advanced DC pulse transformer RF rejection
- Two aux sends, level, pan, and PFL solo on each channel
- 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

1202-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 1-4 Gain @ unity gain, channel EQs flat, all channels assigned to Main Mix, channels 1 and 3 panned left, 2 and 4 panned right) | |
| Main Mix knob down, channel Level knobs down | -100 dBu |
| Main Mix knob @ unity, channel Level knobs down | -86.5 dBu |
| Main Mix knob @ unity, channel Level knobs @ unity | -84.5 dBu |
| Signal-to-Noise Ratio, ref. +4 dBu | 90 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 knob down | -75 dBu |
| Channel Alt/Mute switch engaged | -85 dBu |
| Channel Level knob down | -87 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 k Ω |
| Channel Insert Return | 2.5 k Ω |
| All other inputs | 10 k Ω or greater |
| Tape Out | 1.1 k Ω |
| 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 | 14.0 in / 356 mm |
| Width | 14.0 in / 356 mm |
| Depth | 7.0 in / 178 mm |
| Shipping Weight | 11.5 lb / 5.2 kg |

Physical Properties (product)

| | |
|------------|------------------|
| Height | 11.2 in / 284 mm |
| Width | 11.9 in / 303 mm |
| Depth | 3.0 in / 75 mm |
| Net Weight | 6.5 lb / 3.0 kg |

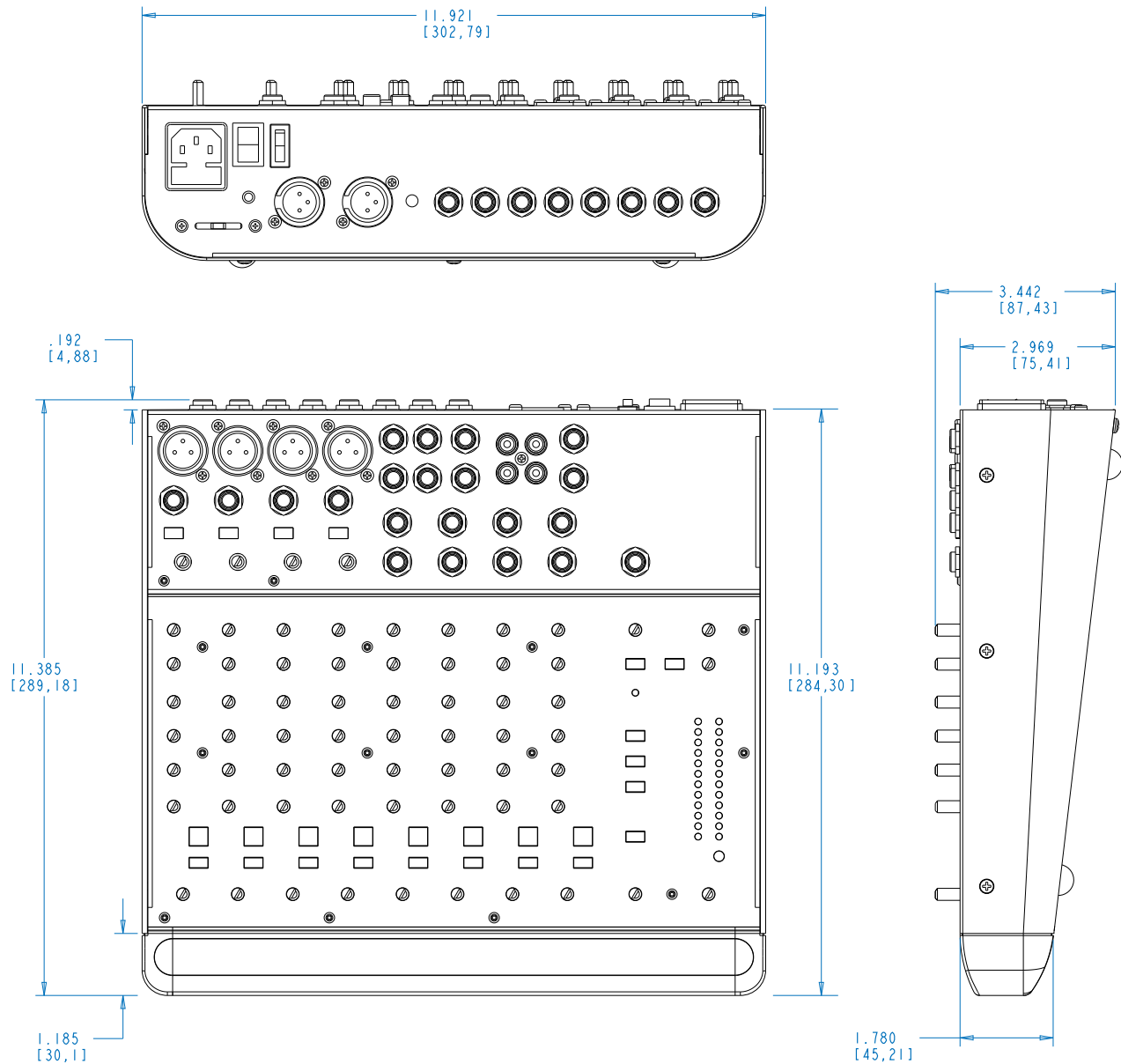
Options

| | |
|-----------------------|------------|
| Rackmount Bracket Set | 090-046-90 |
| Mixer Bag | 093-004-00 |

Ordering Information

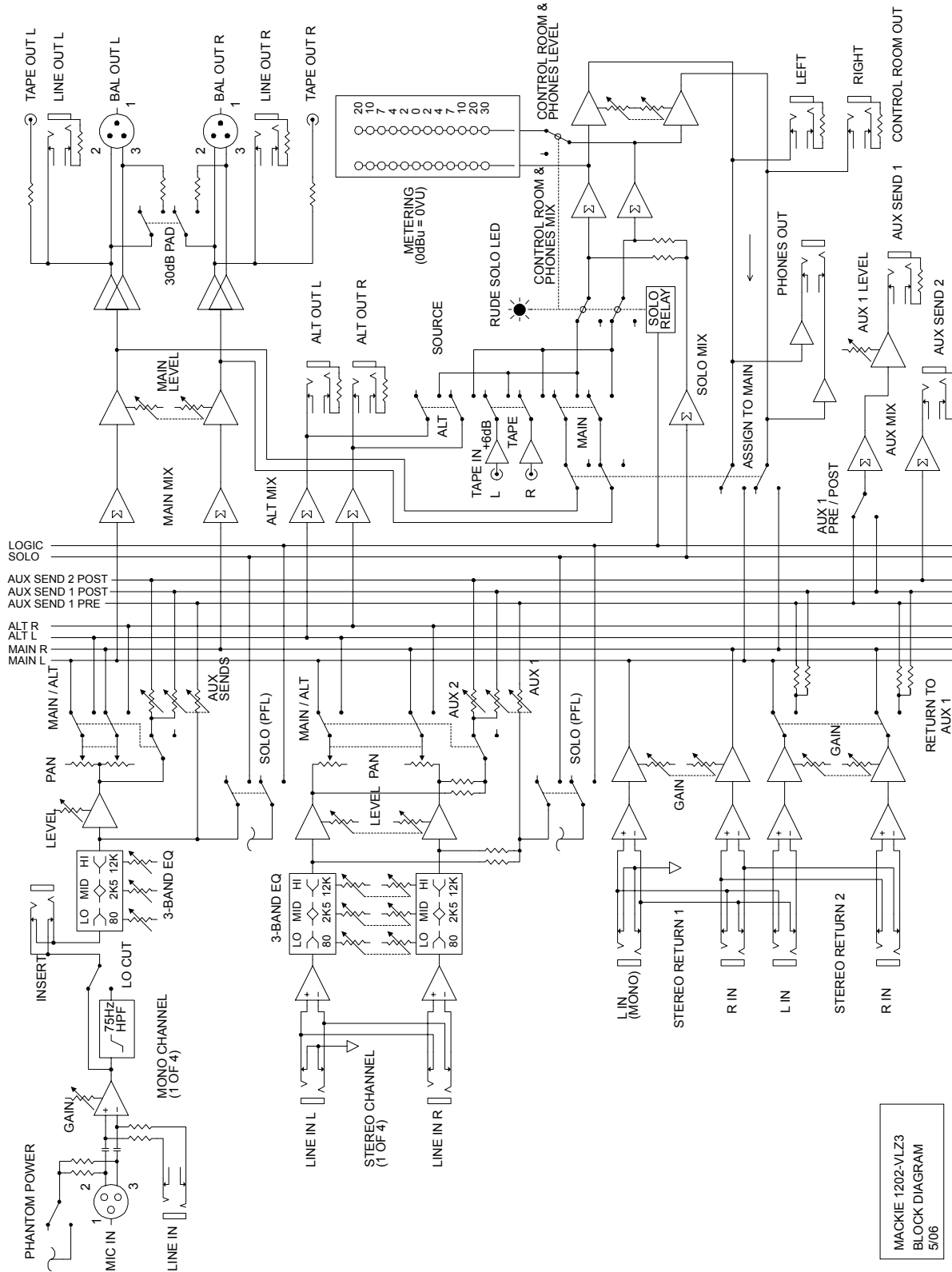
| | |
|---|----------------|
| 1202-VLZ3 12-Ch. Compact Recording/SR Mixer, US | P/N 0018452-00 |
| 1202-VLZ3 12-Ch. Compact Recording/SR Mixer, EU | P/N 0018452-01 |
| 1202-VLZ3 12-Ch. Compact Recording/SR Mixer, JP | P/N 0018452-02 |

1202-VLZ3 DIMENSIONS



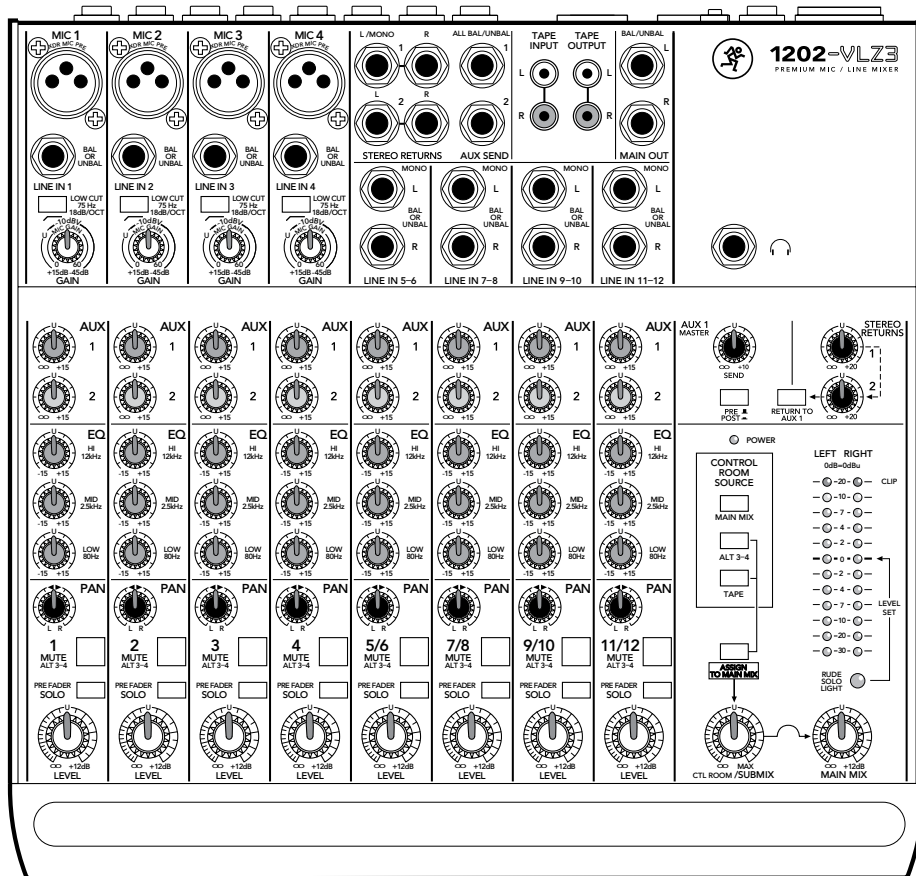
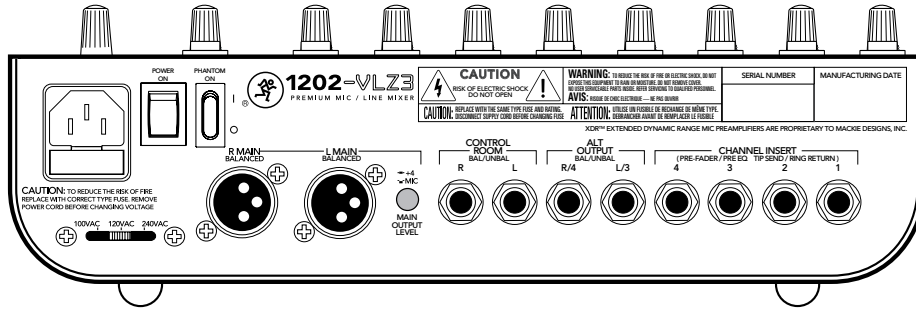
NOTES:
1. WEIGHT APPROX. 6.5 lb [3.0 kg].
2. SHIPPING WEIGHT APPROX. 11.5 lb [5.2 kg].
UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE
IN INCHES, DUAL [MM] DIMENSIONS FOR REF ONLY

1202-VLZ3 BLOCK DIAGRAM



MACKIE 1202-VLZ3
BLOCK DIAGRAM
5/06

1202-VLZ3 FRONT AND REAR PANELS



Electronic files for this product are available at:

www.mackie.com

Specification Sheet

1202VLZ3_SS.PDF

Owner's Manual

1202VLZ3_OM.PDF

MACKIE®

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