



1402VLZ4

The 14-channel 1402VLZ4 brings the proven performance of our Onyx preamps in a professional compact mixer design great for applications that demand flexibility.

From every input to every output, the 1402VLZ4 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 plus high-contrast controls for ultimate tactile control.

And with features like a dedicated control room section and smooth, accurate fader control, the 1402VLZ4 is the premium choice for anybody who demands the professional performance.

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:

- 14-channel mixer featuring our signature high-headroom, low-noise design
- 6 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
- 14 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
- Two aux sends, level, pan and PFL solo on each channel
- 60 mm long-wearing log-taper faders
- Two stereo returns for connecting FX processor or other stereo source
- 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 an optional rack ear kit
- Multi-voltage power supply for worldwide use



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1402VLZ4

14-Channel Compact Mixer

1402VLZ4 SPECIFICATIONS

Main Mix Noise

(20 Hz–20 kHz bandwidth, 1/4" main out, channels 1–6 gain @ unity, 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 @ unity, channel faders down: –91 dBu

(95 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 pre @ insert <0.0007%

Attenuation / Crosstalk

(1 kHz relative to 0 dBu, 20 Hz–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

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

Tape in +16 dBu

All other inputs +22 dBu

Main mix XLR out +28 dBu

All other outputs +22 dBu

Impedances

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

EQ

High Shelving ± 15 dB @ 12 kHz

Mid Peaking ± 15 dB @ 2.5 kHz

Low Shelving ± 15 dB @ 80 Hz

AC Power Requirements

Power Consumption 25 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 500 mA slo blo, 5 x 20 mm

220–240V 250 mA slo blo, 5 x 20 mm

Physical Properties (product)

Height 12.5 in / 317 mm

Depth 3.2 in / 81 mm

Width 14.0 in / 356 mm

Weight 9.5 lb / 4.5 kg

Physical Properties (packaged product)

Height 6.9 in / 175 mm

Depth 16.1 in / 409 mm

Width 15.2 in / 386 mm

Weight 12.0 lb / 5.4 kg

Options

1402VLZ4 Mixer Bag P/N 093-004-01

Ordering Information

1402VLZ4 14-Channel Compact Mixer, US P/N 2040764-00

1402VLZ4 14-Channel Compact Mixer, EU P/N 2040764-01

1402VLZ4 14-Channel Compact Mixer, JP P/N 2040764-02

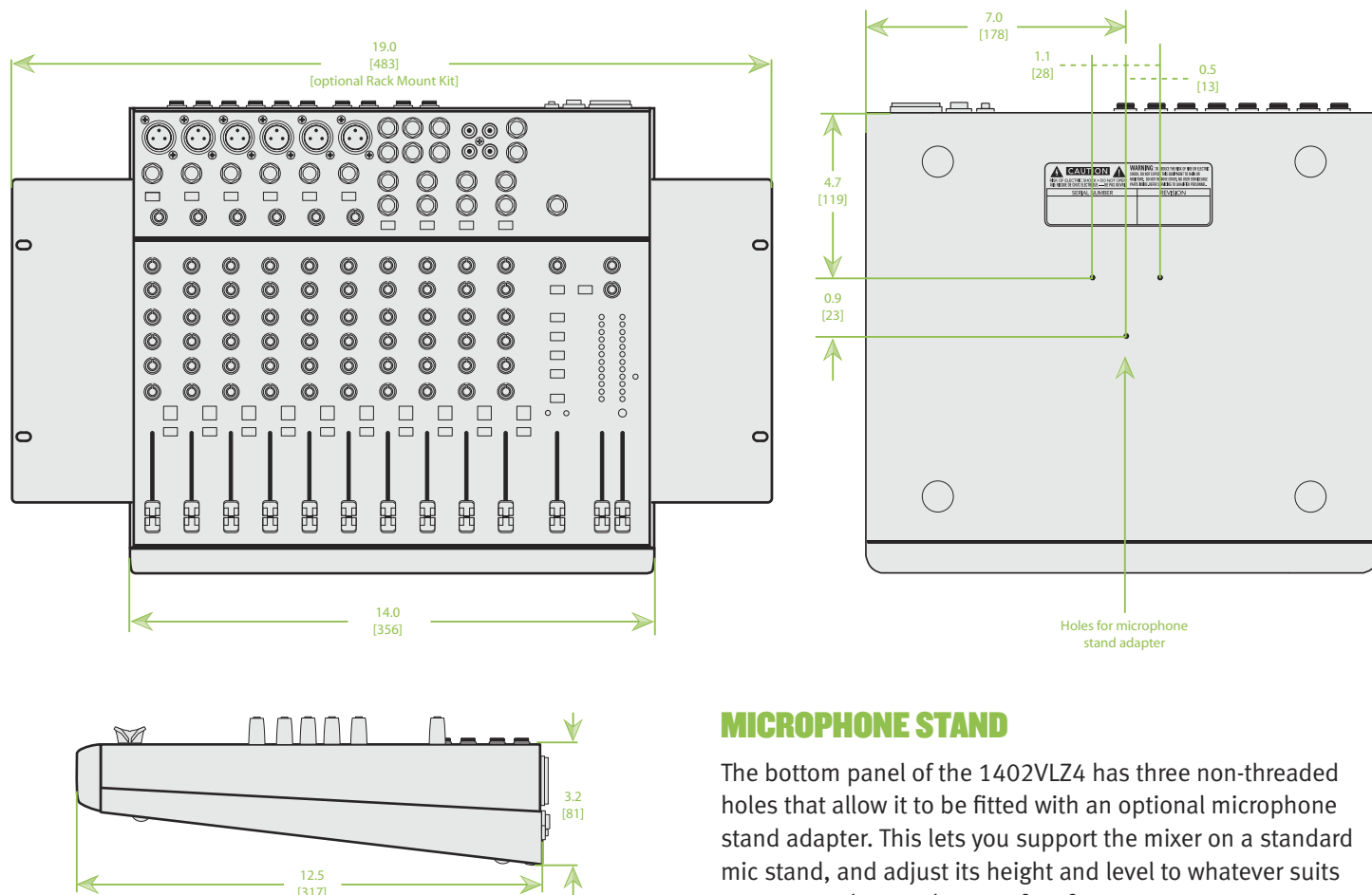
1402VLZ4 14-Channel Compact Mixer, UK P/N 2040764-03

1402VLZ4 14-Channel Compact Mixer, AU P/N 2040764-04

1402VLZ4 14-Channel Compact Mixer, CN P/N 2040764-05

1402VLZ4 14-Channel Compact Mixer, BZ P/N 2040764-06

1402VLZ4 DIMENSIONS



Holes for microphone stand adapter

MICROPHONE STAND

The bottom panel of the 1402VLZ4 has three non-threaded holes that allow it to be fitted with an optional microphone stand adapter. This lets you support the mixer on a standard mic stand, and adjust its height and level to whatever suits your strangely-complex set of preferences.

The Atlas AD-11B mic stand adapter is available at many music stores. It is made and distributed by Atlas Sound.

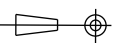
Use three Trilobular thread rolling screws 6-32 x 1/4" long to secure the adapter to the bottom of the 1402VLZ4 [see below].



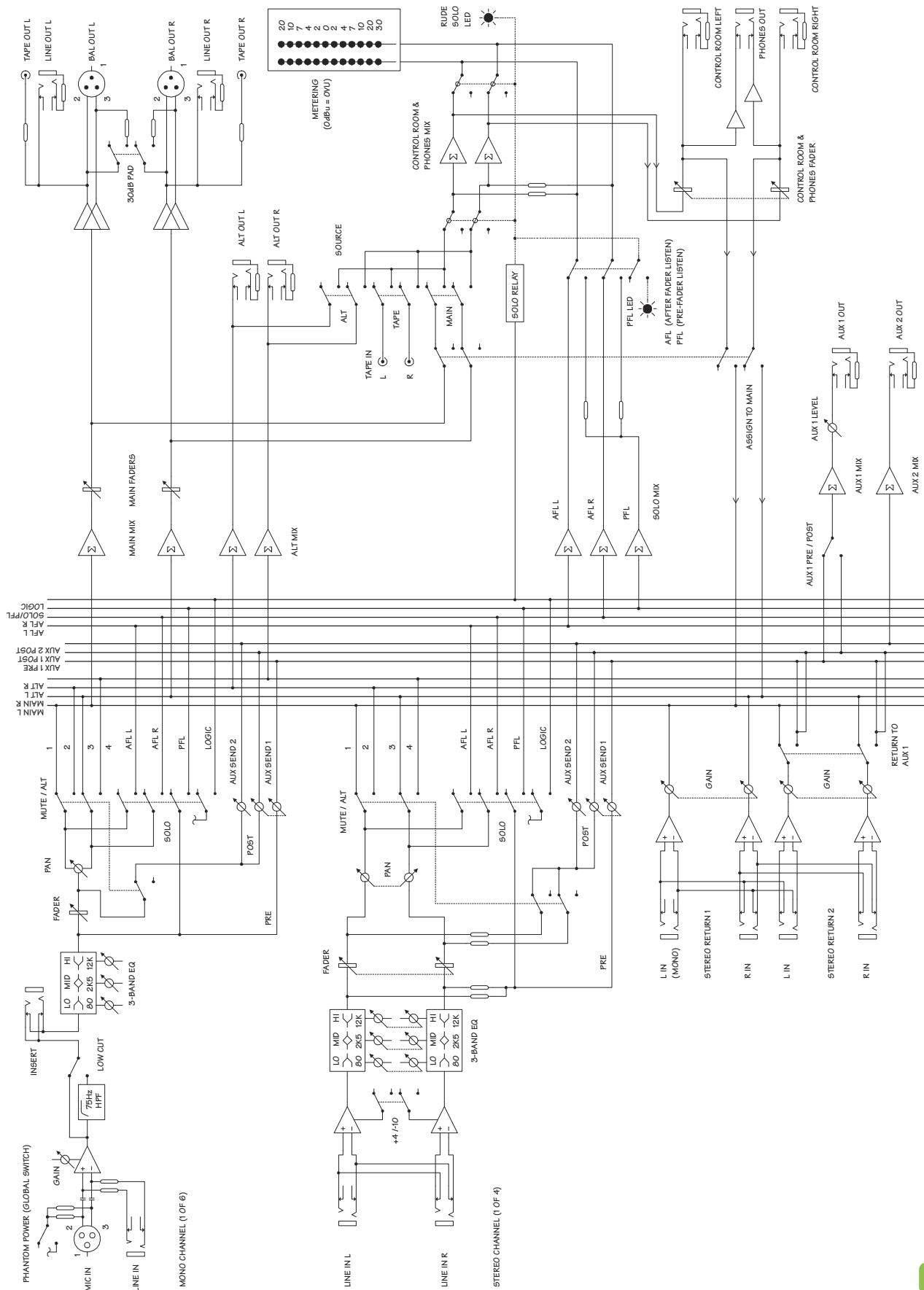
Do not use screws longer than 1/4", as these could damage the circuit boards. Do not use screws shorter than 1/4", or the adapter will not be securely fixed to the mixer.

NOTES:

1. WEIGHT APPROX. 9.5 lb [4.5 kg]
2. SHIPPING WEIGHT APPROX. 12.0 lb [5.4 kg]

<p>THIRD ANGLE PROJECTION</p>  <p>THE INFORMATION CONTAINED HEREIN IS PROPRIETARY AND CONFIDENTIAL PROPERTY OF LOUD TECHNOLOGIES, INC. ALL RIGHTS RESERVED</p>	<p>UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES DUAL [MM] DIMENSIONS FOR REF ONLY</p> <p>TOLERANCE IN INCHES LINEAR ± 0.13 in / ± 3.3 mm ANGLES $\pm 1^\circ$</p> <p>(XXX) = REF DIMS NO TOLERANCE IMPLIED</p> <p>TSC = THEORETICAL SHARP CORNER DIMENSIONS ACROSS CENTERLINES TO BE SYMMETRICAL</p>
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1402VLZ4 BLOCK DIAGRAM

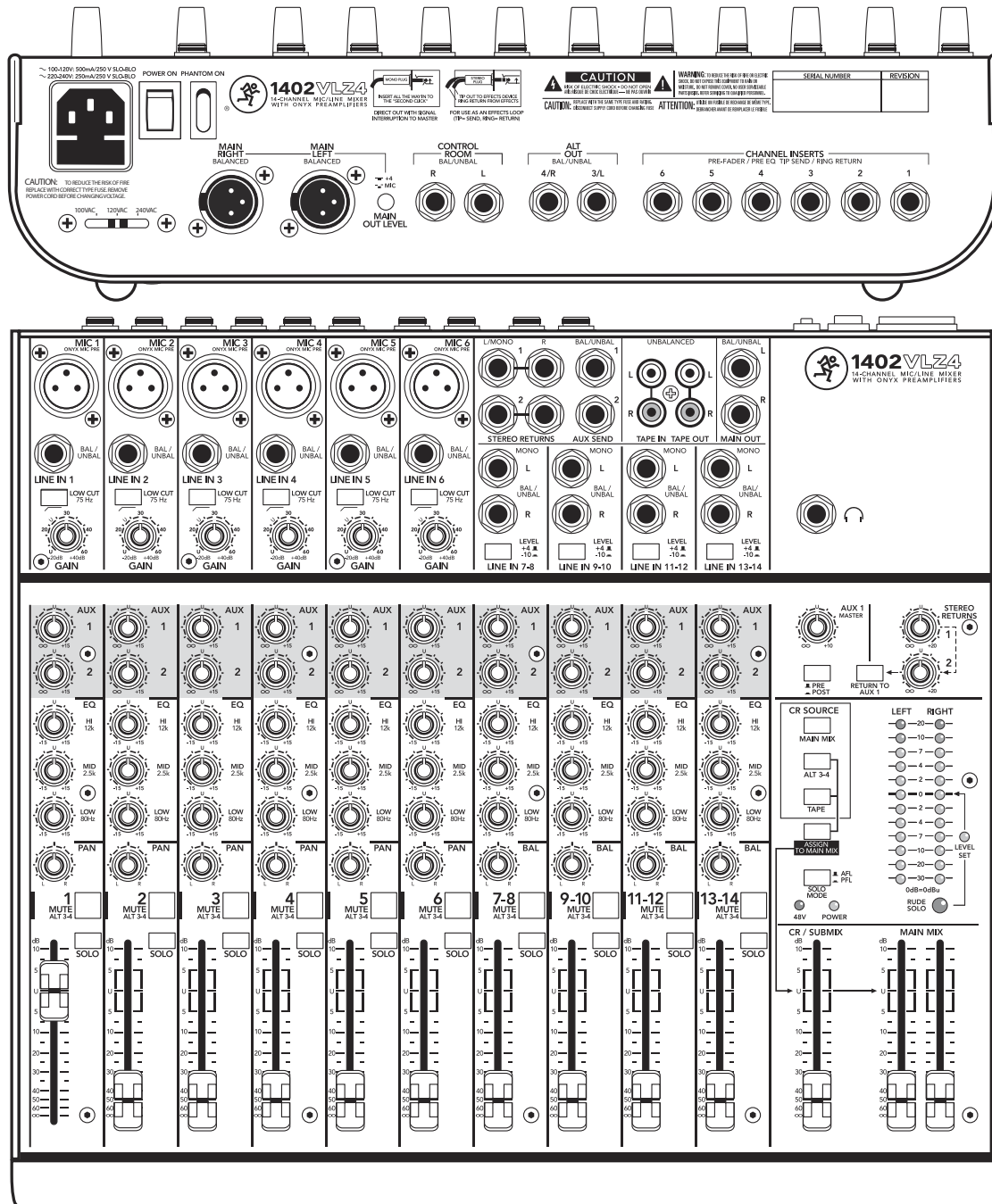




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14-Channel Compact Mixer

1402VLZ4 FRONT AND REAR PANEL



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Electronic files for this product are available at:
www.mackie.com

Specification Sheet

1402VLZ4_SS.PDF

Owner's Manual

1402VLZ4_OM.PDF



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