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 chasis 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.

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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

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 kΩ
Channel insert return	2.5 kΩ
All other inputs	10 kΩ or greater
Tape out	1.1 kΩ
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

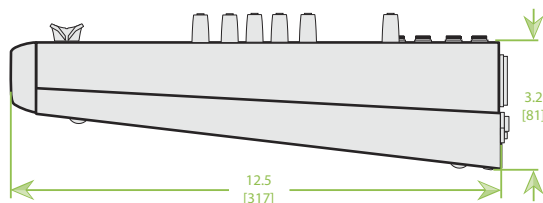|	
1402VLZ4 Mixer Bag	P/N 093-004-01

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

19.0
[483]
[optional Rack Mount Kit]

14.0
[356]

CAUTION WARNING

SERIAL NUMBER | REVISION
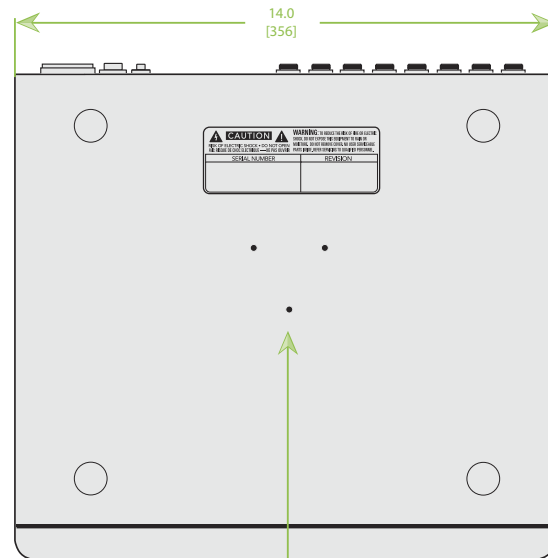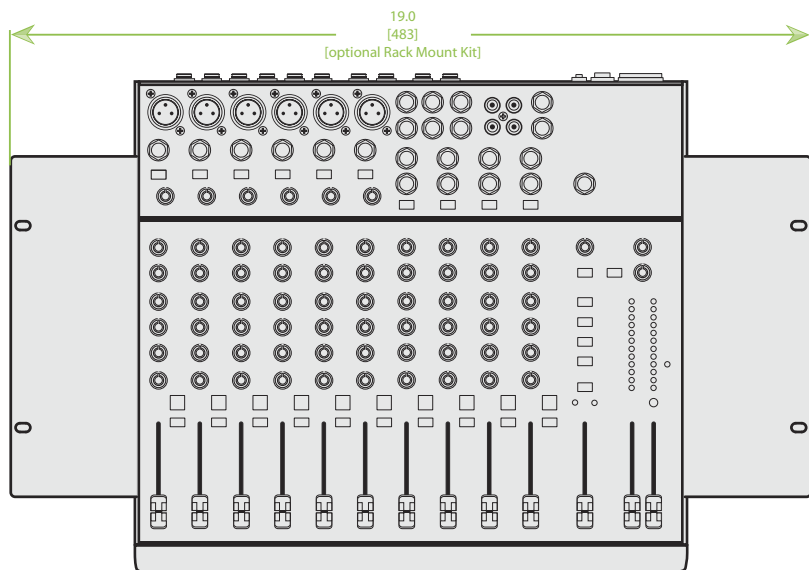
Holes for microphone
stand adapter

3.2
[81]

12.5
[317]

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

THIRD ANGLE PROJECTION

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HEREIN IS PROPRIETARY AND
CONFIDENTIAL PROPERTY OF
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UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES
DUAL [MM] DIMENSIONS
FOR REF ONLY

TOLERANCE IN INCHES
LINEAR ± 0.13 in / ± 3.3 mm
ANGLES ± 1°

(X.XX) = REF DIMS
NO TOLERANCE IMPLIED

TSC = THEORETICAL SHARP CORNER

DIMENSIONS ACROSS CENTERLINES
TO BE SYMMETRICAL

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 preferences.

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

Use three self-tapping machine screws 6-32 x 1/4" long to secure the adapter to the bottom of the 1402VLZ4.

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.
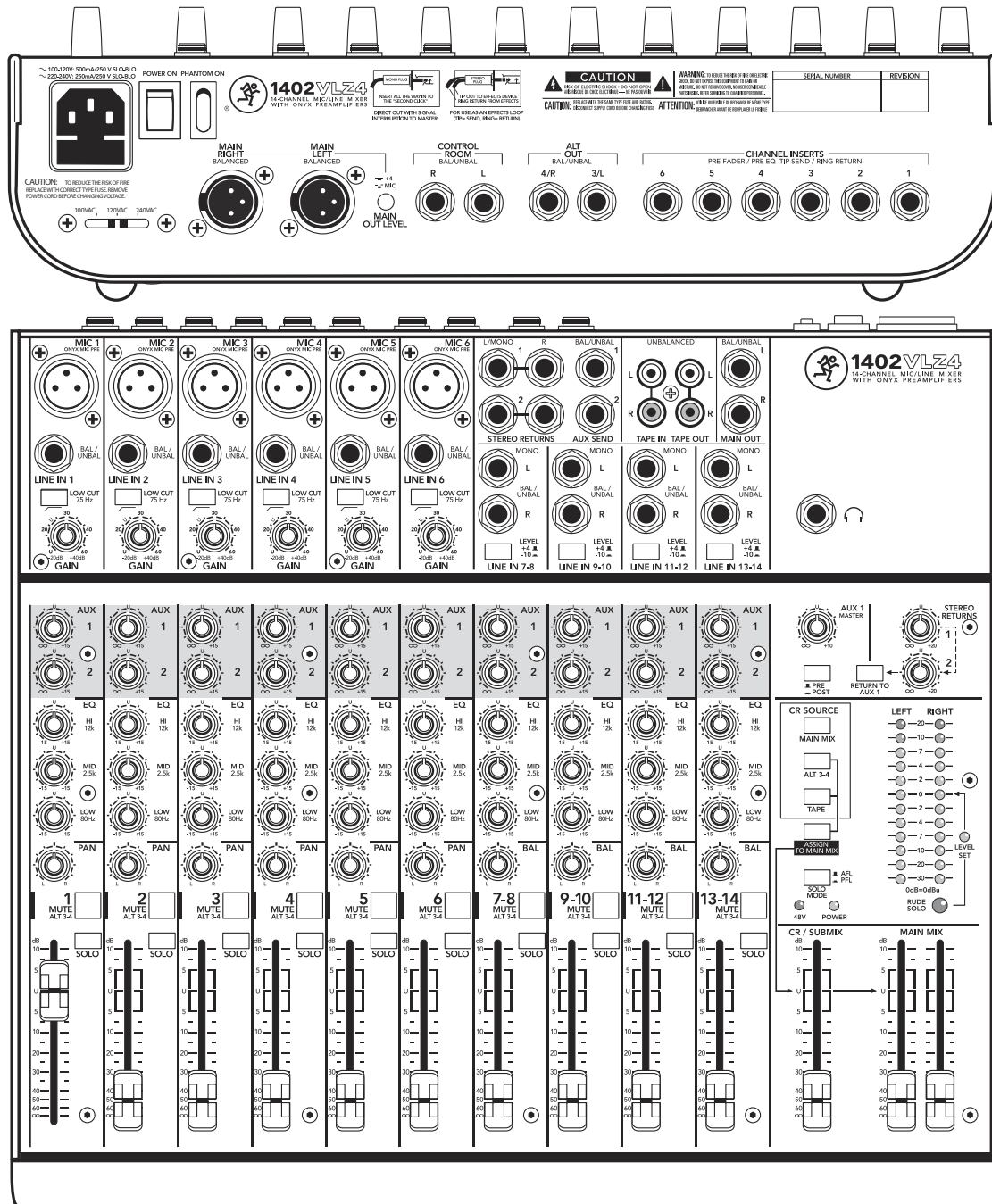
1402VLZ4 BLOCK DIAGRAM
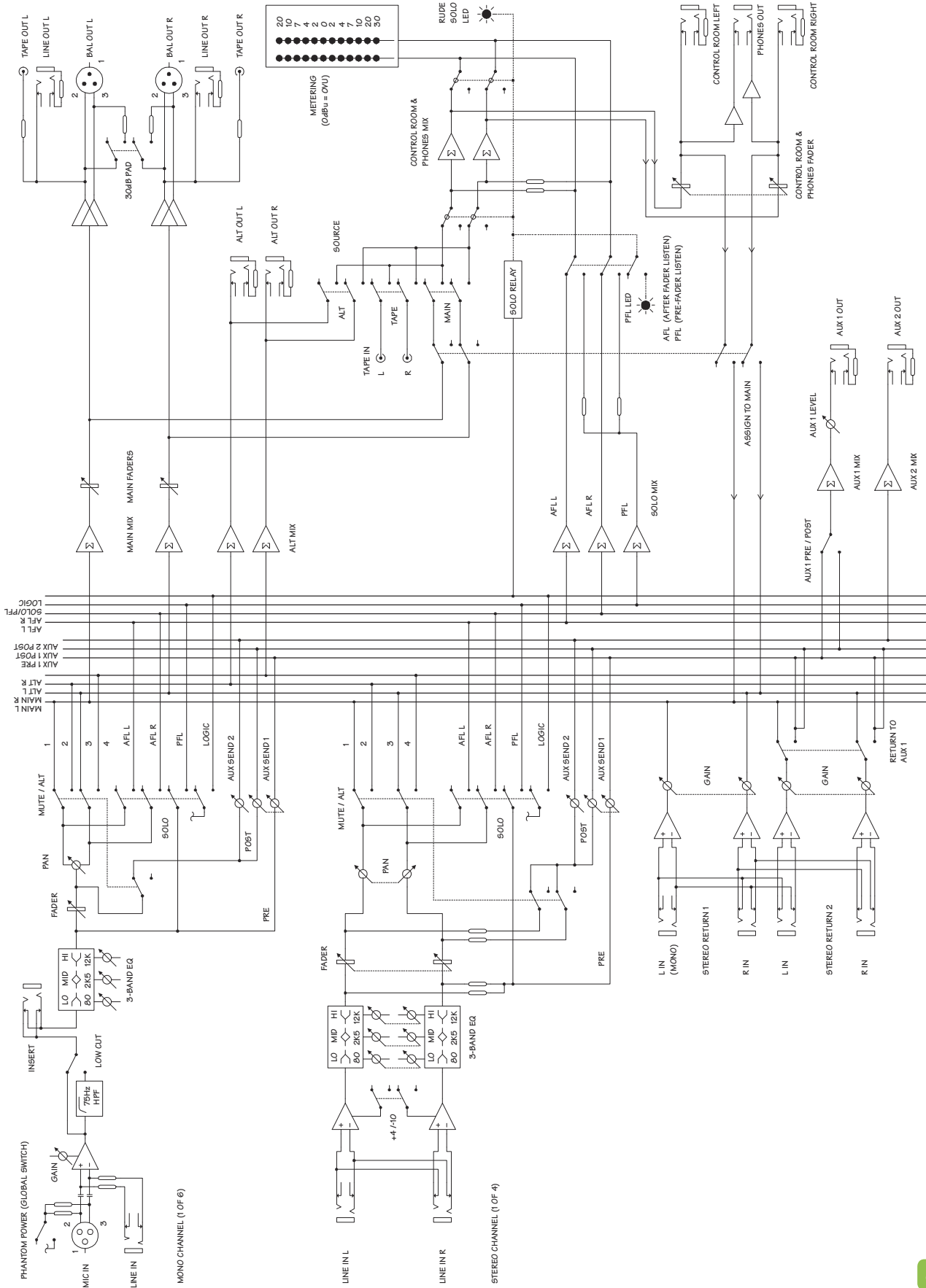
MACKIE. 1402VLZ4 14-Channel Compact Mixer

1402VLZ4 FRONT AND REAR PANEL

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