



1604VLZ4

A legend in compact mixer design, the 1604VLZ4 now combines the proven performance of Onyx preamps with the no-compromise high-headroom/low-noise design that has made the 1604 an industry mainstay.

All 16 channels feature an Onyx mic pre, line input and insert in a compact 4-bus design built for application flexibility and professional performance. Plus, it is truly “Built-Like-A-Tank” with a ridiculously rugged solid-steel chassis that includes high-contrast controls for ultimate tactile control.

Found in countless professional broadcast and post facilities and easily the most proven band-friendly analog mixer ever, the 1604 stands alone in the world of compact mixing.

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:

- 16-channel mixer featuring our signature high-headroom, low-noise design
- 16 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
- 16 high-headroom line inputs with +4/–10 operation control
- 16 balanced inserts perfect for integrating outboard gear
- 3-band EQ with sweepable midrange
- 18 dB/oct 75 Hz low-cut filter on mic input channels
- Four aux sends, level, pan and solo and overload/mute LEDs on each channel
- Four stereo returns, eight direct outs and four group/bus outputs
- 60 mm long-wearing log-taper faders
- Control room / phones multi-input 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 with three physical configurations via Rotopod accessory (sold separately)
- Multi-voltage power supply for worldwide use



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1604VLZ4

16-Channel 4-Bus Compact Mixer

1604VLZ4 SPECIFICATIONS

Main Mix Noise

(20 Hz–20 kHz bandwidth, 1/4" main out, channel gains @ unity, channel EQs flat, all channels assigned to main mix, odd channels panned left, even channels panned right.)

Main mix fader unity, channel faders down: –88.5 dBu

(92 dB Signal to Noise Ratio, ref +4 dBu)

Main mix fader @ unity, channel faders @ unity: –82.5 dBu

Total Harmonic Distortion (THD)

(1 kHz @ 35 dB gain, 20 Hz–20 kHz bandwidth)

Mic in to insert send <0.0007%

Mic in to main out <0.005%

Attenuation / Crosstalk

(1 kHz relative to 0 dBu, 20 Hz–20 kHz bandwidth, line in, 1/4" main out, gain @ unity)

Channel mute switch engaged –84 dBu

Channel gain knob down –84 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

All other inputs +22 dBu

Main mix TRS 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 sweep 100 Hz – 8 kHz

Low Shelving ± 15 dB @ 80 Hz

Low Cut Filter 18 dB/octave, –3 dB @ 75 Hz

AC Power Requirements

Power Consumption 50 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 1A slo blo, 5 x 20 mm

220-240V 0.5A slo blo, 5 x 20 mm

Physical Properties (product)

Height 17.0 in / 433 mm

Depth 5.1 in / 129 mm

Width 17.3 in / 440 mm

Weight 20.0 lb / 9.1 kg

Physical Properties (packaged product)

Height 9.3 in / 236 mm

Depth 20.7 in / 526 mm

Width 21.3 in / 541 mm

Weight 24.0 lb / 10.9 kg

Options

1604VLZ4 Mixer Bag P/N 093-004-02

1604VLZ4 Mixer Cover P/N 093-009-00

Ordering Information

1604VLZ4 16-Channel Compact 4-Bus Mixer, US P/N 2040765-00

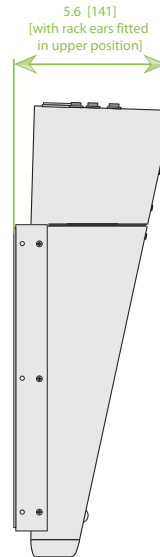
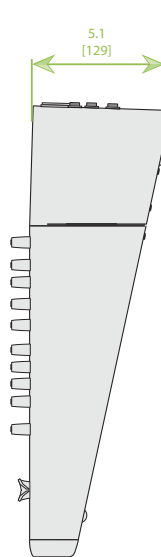
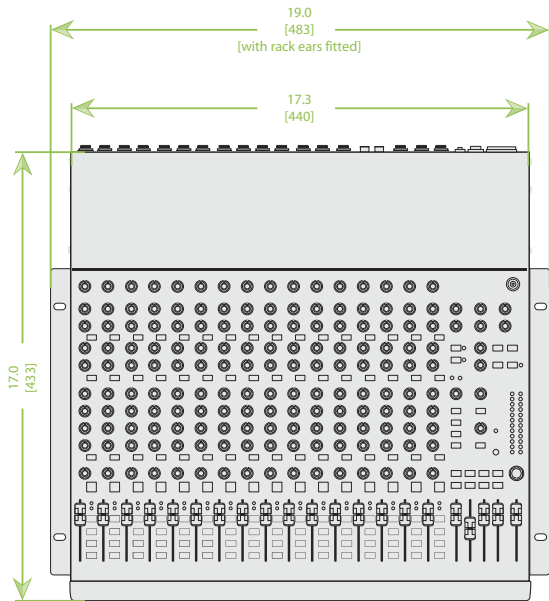
1604VLZ4 16-Channel Compact 4-Bus Mixer, EU P/N 2040765-01

1604VLZ4 16-Channel Compact 4-Bus Mixer, AU P/N 2040765-04

1604VLZ4 16-Channel Compact 4-Bus Mixer, CN P/N 2040765-05

1604VLZ4 16-Channel Compact 4-Bus Mixer, BZ P/N 2040765-06

1604VLZ4 DIMENSIONS



NOTES:

1. WEIGHT APPROX. 20.0 lb [9.1 kg]

2. SHIPPING WEIGHT APPROX. 24.0 lb [10.9 kg]

THIRD ANGLE PROJECTION



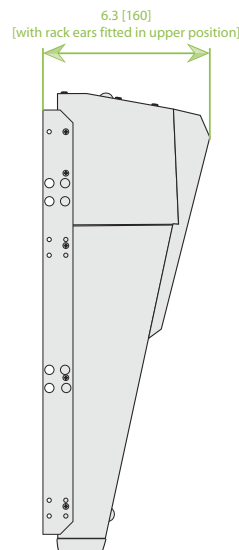
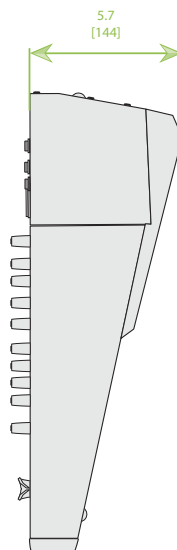
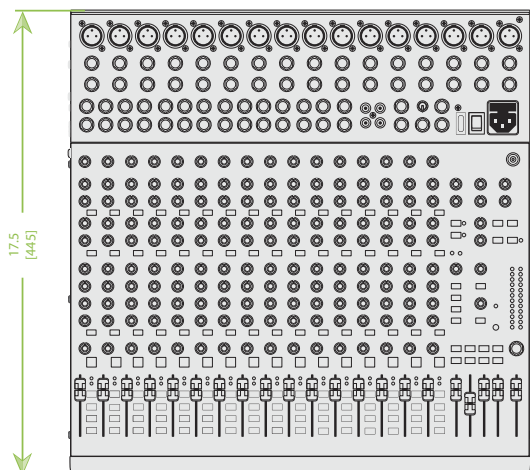
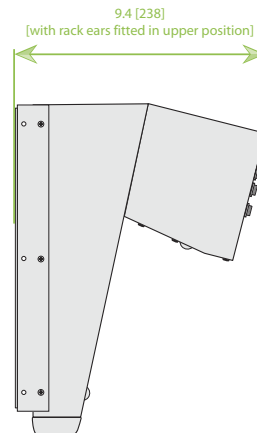
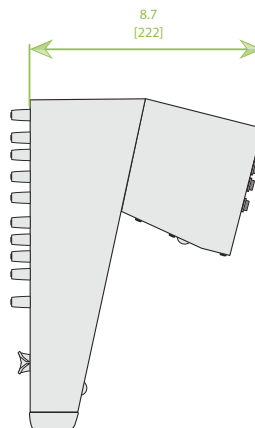
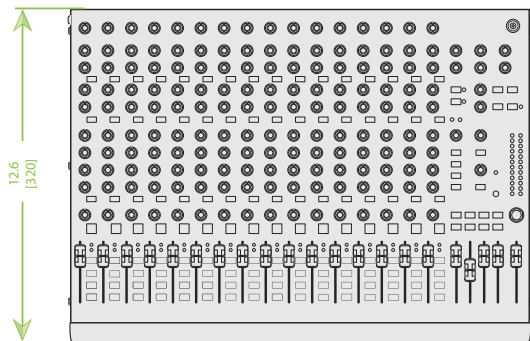
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UNLESS OTHERWISE SPECIFIED:
ALL DIMENSIONS ARE IN INCHES
DUAL [MM] DIMENSIONS
FOR REF ONLY

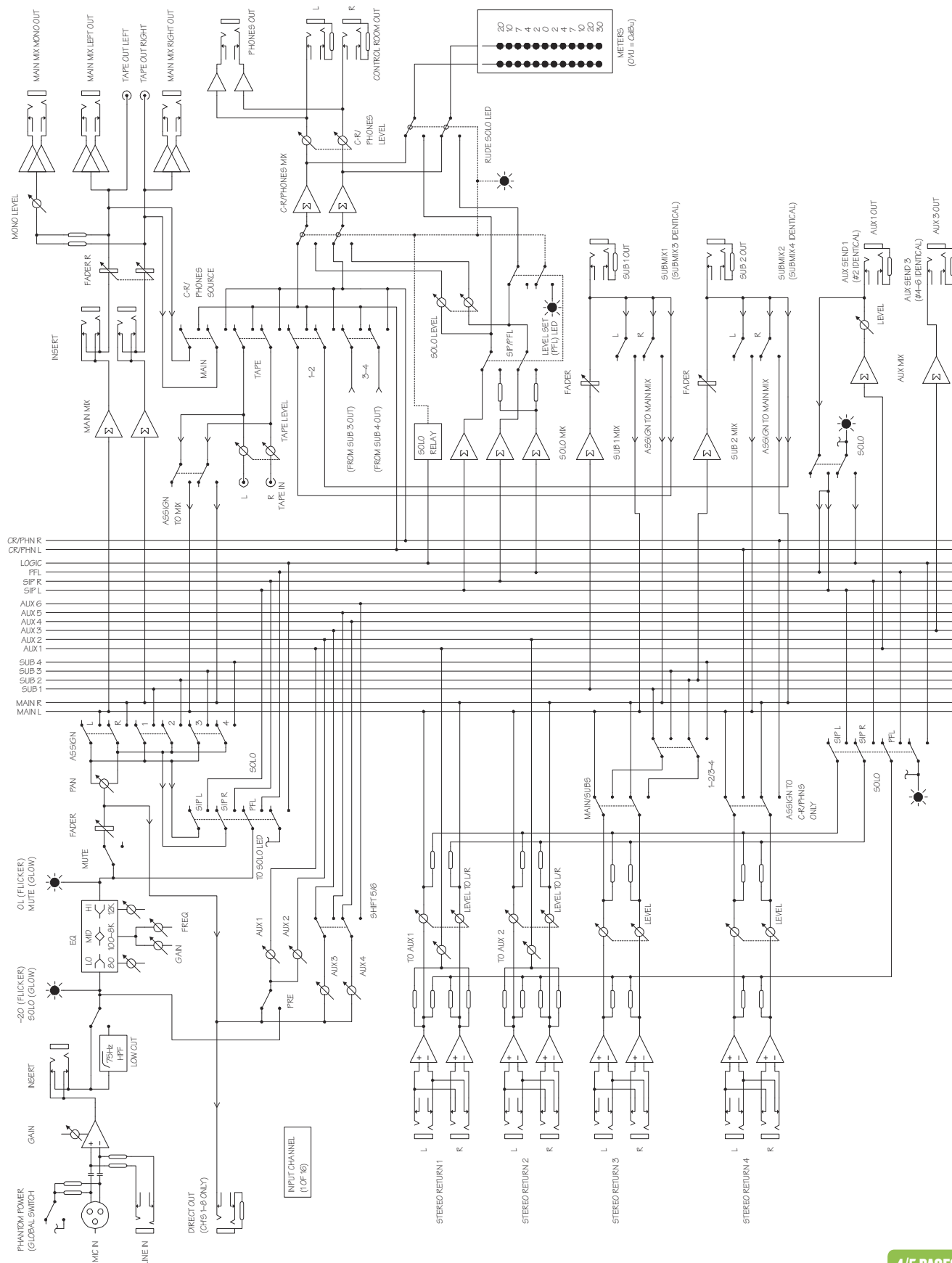
TOLERANCE IN INCHES
LINEAR ± 0.13 in / ± 3.3 mm
ANGLES $\pm 1^\circ$

(XXX) = REF DIMS
NO TOLERANCE IMPLIED

TSC = THEORETICAL SHARP CORNER
DIMENSIONS ACROSS CENTERLINES
TO BE SYMMETRICAL



1604VLZ4 BLOCK DIAGRAM

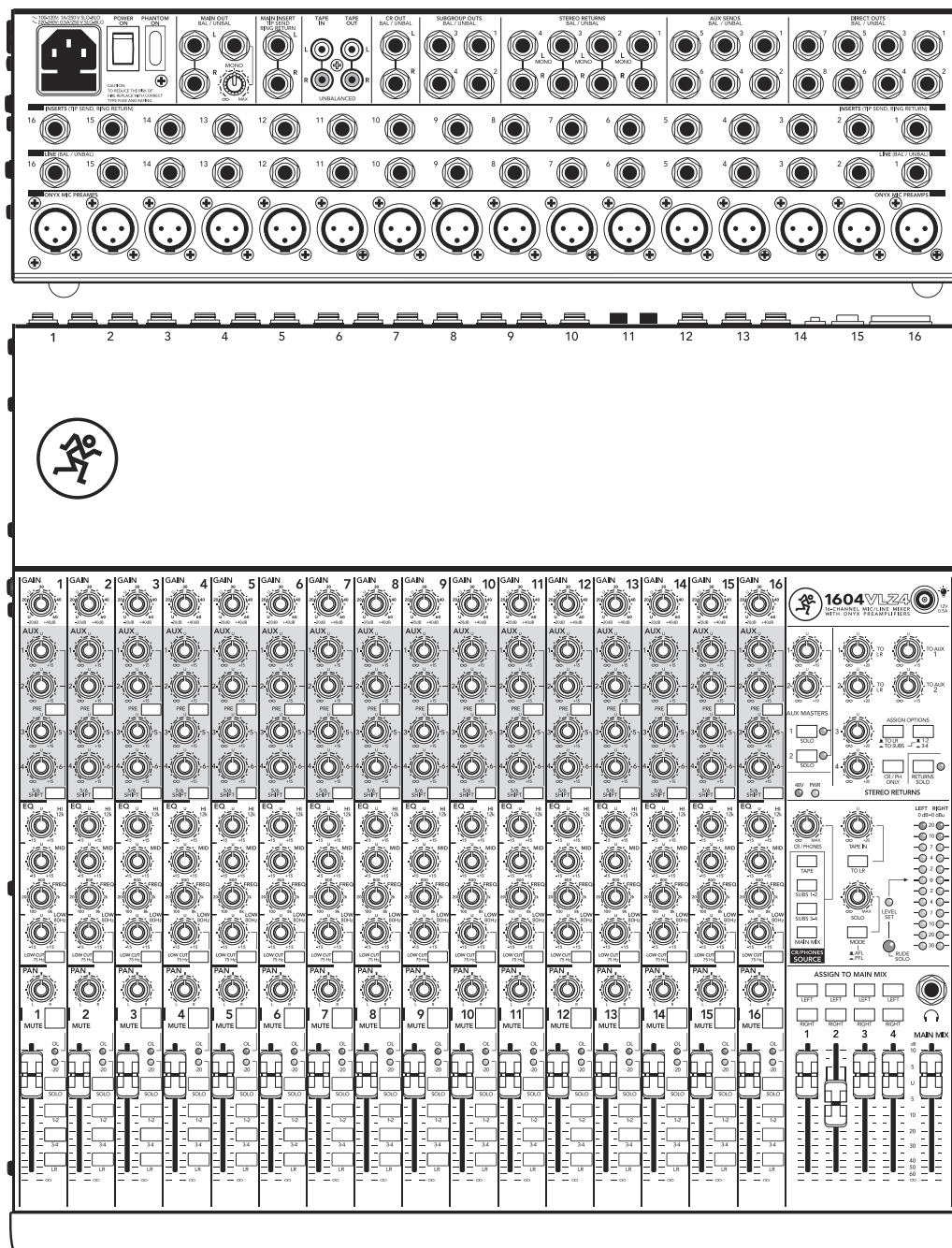




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16-Channel 4-Bus Compact Mixer

1604VLZ4 FRONT AND REAR PANEL



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

Specification Sheet

1604VLZ4_SS.PDF

Owner's Manual

1604VLZ4_OM.PDF



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