The 1604-VLZ3 is the flagship mixer of the series, the culmination of 20 years experience in mixer design and the standard for production and broadcast facilities worldwide. With improved XDR2™ mic preamps, a re-designed mix bus, and optimized active EQ on every channel, the 1604-VLZ3 is packed with premium features and maximum flexibility.

The 1604-VLZ3 is equipped with 16 mono mic/line channels, four subgroup outputs, a stereo main out and a mono main out.

Each channel has phantom power, an input Gain control with 60 dB of gain, a sharp 18 dB/octave, 75 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. In addition, channels 1-8 have their own Direct Out jacks for sending signal to a recorder.

The Control Room/Phones section has its own level control, outputs and input matrix for selecting any combination of Main Mix, Tape In and Subs to create custom headphone mixes, to monitor tape levels and more.

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

Other features include a stereo tape input and output, a 1/4-inch stereo headphone jack, stereo 12-segment LED meters, BNC lamp socket and TRS stereo output jacks.

No matter what the application, the 1604-VLZ3 may be configured for optimal use. As a tabletop mixer, input/output jacks may be positioned at the rear of the unit or, with the optional RotoPod kit (RotoPod-VLZ), positioned on the same plane as the controls. Placed in a rack, the 1604-VLZ3 may be set so that the jacks are facing front (using the RotoPod kit) or facing the rear to keep wandering hands from playing with cords.

The 1604-VLZ3 is designed for continuous hassle-free use in any application or installation, and it’s packed with useful features and practical routing capabilities. A legend perfected, the 1604-VLZ3 is an unbelievable workhorse that is perfect for nearly any application.

**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.
1604-VLZ3 SPECIFICATIONS

Noise Characteristics
(Mic in to Insert Send out, max gain)
150 Ω termination, 20 Hz to 20 kHz bandwidth –129.5 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 –88.5 dBu
Main Mix fader @ unity, channel faders @ unity –82.5 dBu
Signal-to-Noise Ratio, ref. +4 dBu 92 dBu

Frequency Response
(Mic input to any output)
20 Hz to 60 kHz +0 dB / –1 dB
20 Hz to 100 kHz +0 dB / –3 dB

Distortion (THD+N)
(1 kHz @ 35 dB gain, 20 Hz to 20 kHz bandwidth)
Mic In to Insert Send <0.0007%
Mic In to Main Out <0.005%

Attenuation and Crosstalk
(1 kHz relative to 0 dBu, 20 Hz to 20 kHz bandwidth, Line In, 1/4" Main Out, Gain @ unity)
Channel Mute switch engaged –84 dBu
Channel Gain knob down –84 dBu

Common Mode Rejection Ratio (CMRR)
(Mic In to Insert Send out)
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

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

Input and Output Impedance
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

AC Power Requirements
Power Consumption 50 watts
US, JP 100 – 120 VAC, 50 – 60 Hz
Fuse rating 1A slo blo, 5 x 20 mm
EU 200 – 240 VAC, 50 – 60 Hz
Fuse rating 0.5A slo blo, 5 x 20 mm
Operating Temperature 0˚ – 40˚C
32˚ – 104˚F

Physical Properties (packaged product)
Height 22.0 in / 559 mm
Width 21.0 in / 533 mm
Depth 9.4 in / 240 mm
Shipping Weight 31.2 lb / 14.2 kg

Physical Properties (product)
Height 17.5 in / 445 mm
Width 17.3 in / 440 mm
Depth 5.1 in / 129 mm
Net Weight 20.0 lb / 9.1 kg

Options
RotoPod Kit / Bracket Set 090-050-90
Mixer Bag 093-004-02
Dust Cover 093-009-00

Ordering Information
1604-VLZ3 16-Ch./4-Bus Compact Recording/SR Mixer, US
P/N 0018454-00
1604-VLZ3 16-Ch./4-Bus Compact Recording/SR Mixer, EU
P/N 0018454-01
1604-VLZ3 16-Ch./4-Bus Compact Recording/SR Mixer, JP
P/N 0018454-02
1604-VLZ3 DIMENSIONS

Notes:
1. Weight approx. 20.0 lb [9.1 kg].
2. Shipping weight approx. 31.2 lb [14.2 kg].

Units standard metric (all dimensions are in millimeters, not inches). Dimensions for reference only.
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