

MS1402-VLZ[®]

14 X 2 MICRO SERIES MIC/LINE MIXER



Mackie's MicroSeries 1402-VLZ is a compact mixer that combines the size and durability of the 1202-VLZ with the features and flexibility of the CR1604-VLZ. Like those two mixers, the MS1402-VLZ delivers high headroom and ultra low noise, thanks to its VLZ very low impedance architecture, first introduced on our acclaimed 8•Bus consoles. And it's just as rugged, with all-steel construction, thru-hole-plated fiberglass circuit boards, gold-plated interconnects and sealed rotary controls. The MS1402-VLZ is a distinguished sibling.

Mixing Made Easy

One of the first things you'll notice is that the 1402-VLZ has faders. Like the faders on our SR Series consoles, these 60mm, log-taper faders provide smooth, consistent fades throughout the fader's travel.

3-band EQ at truly useful frequencies (80Hz, 2.5kHz and 12kHz) allows for more "musical" equalization. The six studio-grade

mic preamps (on channels 1 thru 6) have -129.5dBm E.I.N. And with its integral 48V phantom power supply, the 1402-VLZ is compatible with all of your favorite dynamic and condenser mics. Room rumble, wind noise and mic thumps are cut off on those channels by a Low Cut Filter (75Hz, 18dB/octave), allowing you to use Lo Shelving EQ to enhance the higher end of the bass frequency range (instead of using it to get rid of the aforementioned noises).

Each channel has PFL & In-Place AFL (globally switchable) for solo and cueing flexibility. In PFL you can listen to your channels pre-fade/post-EQ at full level, before the signal reaches the fader and pan control. AFL lets you listen to your channels post-fader/post-EQ. This is great for hearing where the signal is in the stereo horizon (hence the name "Solo In-Place"). Each channel has PFL and In-Place AFL (globally switchable). PFL Solo



RELATED PRODUCTS

RM1402-VLZ RACK MOUNT BRACKETS

MORE INFORMATION

MS1402-VLZ ARCHITECTS' & ENGINEERS' SPECIFICATIONS

"IN YOUR FACE" ALL-PRODUCT BROCHURE

FEATURES

- 6 low noise/high headroom XLR mic inputs (-129.6dBm E.I.N.)
- 6 balanced/unbalanced mono line inputs
- 4 balanced/unbalanced stereo line inputs
- 60mm log-taper faders
- 48V phantom power
- 3-Band EQ (12kHz, 2.5kHz, 80Hz)
- Low Cut Filter on channels 1-6
- PFL/AFL (Solo In-Place) on every channel (global)
- Very Low Impedance architecture
- EFX to Monitor switch
- 2 stereo buses
- Alt 3-4 for extra bus
- Balanced inputs and outputs (except RCAs and channel inserts)
- Balanced XLR Main L/R outputs with mic/line level switch
- 1/4" main outputs
- 60dB Gain on chs. 1-4
- Global Aux 1 Pre/Post switch
- Level Setting Marker

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MS1402-VLZ

also makes level setting easy, especially when used with the new Level Setting Marker and the level-set LED.

Mute/Alt 3-4 on each channel means every channel can be muted. But that's only part of it. Alt 3-4 provides an extra stereo bus for creating two stereo pairs for 4-track recording, or for previewing a source not yet in the main mix. (An engaged mute button sends the channel's signal to the Alt 3-4 outputs.)

EFX to Monitor lets you blend reverb or other effects back into a monitor mix via Aux Send 1, like on our SR Series. There's also an Aux 1 master level control in this section.

Control Room/Phones has its own level control and separate outputs, allowing you to select any combination of Main Mix, Tape In and Alt 3-4. You can create custom headphone mixes, monitor tape levels and more. Plus, a

separate switch routes this multi-source signal back into the Main Mix.

Balanced inputs and outputs everywhere (except RCA tape jacks, phones and channel inserts) help keep noise at a minimum, and there are balanced XLR main outputs – as well as 1/4" TRS outs – for direct connections to video post and other such professional equipment. To add still more versatility, the signal at the XLR main outputs is switchable to mic or line level.

Tough as nails.

The MS1402-VLZ was designed by Greg Mackie, an audio veteran with over 20 years in the industry. His designs are intended for non-stop, 24 hour-a-day professional duty in broadcast and PA applications, TV and radio production studios, and video post suites – places where nothing must ever go wrong. The MS1402-VLZ,

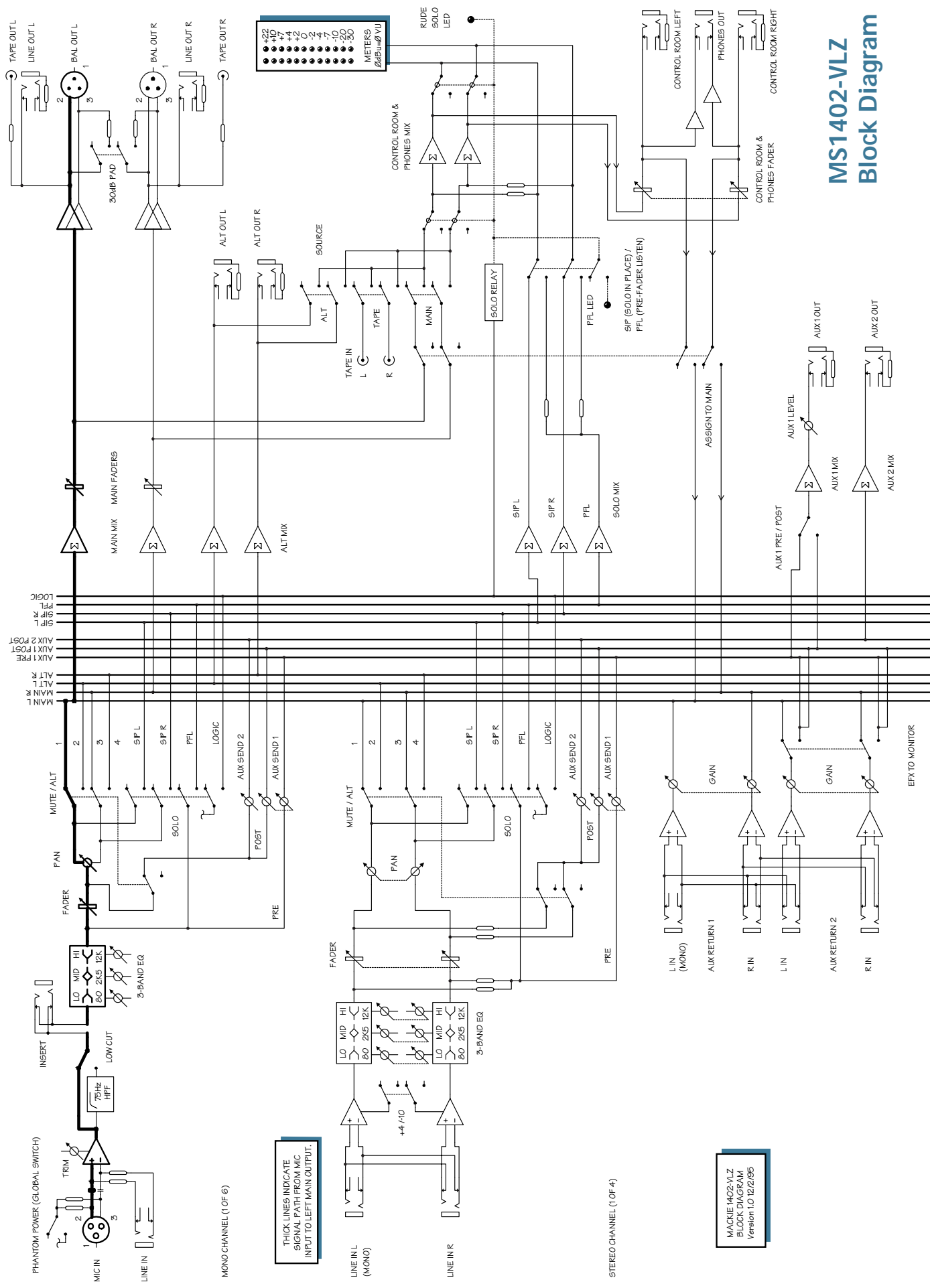
like all of Mackie's mixers, lives up to that credo.

It has sealed, co-molded rotary controls instead of open-frame phenolic potentiometers that can suffer from airborne dust and contamination. For the life of an installation, the 1402-VLZ provides minimal rotational contact noise (and if there ever is a problem, pots are individually replaceable). Plus, our combination of mounting, co-molding and energy-absorbing knob design helps prevent impact damage.

Along with its steel chassis and thru-hole-plated fiberglass circuit boards, the MicroSeries 1402-VLZ also features a built-in power supply instead of a "wall wart." Not only does this eliminate the inevitable hassles of dealing with external power supplies, but it also actually reduces hum.

The tiny transformers inside wall warts are typically driven into non-linearity (in excess of 15 kilo-Gauss) to provide enough power for the mixer. This creates stray 25- to 35 μ V magnetic fields that are easily picked up by shielded audio cables. The MS1402-VLZ's internal transformer loafs along at under 10 kiloGauss, reducing stray fields to less than 1 μ V. The MS1402-VLZ also uses the same RF protection circuitry and





THICK LINES INDICATE SIGNAL PATH FROM MIC INPUT TO LEFT MAIN OUTPUT.

MS1402-VLZ BLOCK DIAGRAM Version 1.0 12/21/95

MS1402-VLZ Block Diagram

construction as the CR-1604, making it virtually immune to RF interference in high-energy environments.

Multiple applications.

Our original MicroSeries 1202 has been used continuously in all kinds of applications; with faders and the aforementioned features, the MS1402-VLZ is even more exciting.

Why? Because the MS1402-VLZ – like its heralded ancestor – is able to perform in applications where other small mixers don't measure up:

- ENG mixer
- Sound reinforcement mixer

- Audio mixer for video post editing suites
- Impedance or level matching "toolkit"
- Headphone or cue mixer
- Effects sends sub mixer
- Remote broadcast mixer
- 8-track monitor mixer
- Live film and video sound mixer
- Aux inputs for a larger console

Mackie's MS1402-VLZ has much going for it: compact size, major flexibility and durability make it an incredible mixer value. And of course, its price-to-features ratio make the MicroSeries 1402-VLZ mixer a solid – as well as compact and versatile – investment.

SPECIFICATIONS

Signal-to-Noise Ratio:

90dB, ref. +4dBu (all channels assigned, panned left/right)

Mic preamp equivalent input noise (E.I.N.):

-129.5dBm @ 150 ohms

Maximum gain

(mic in to main out):

86dB (to balanced out)

80dB (to unbalanced out)

Frequency response:

20Hz to 60kHz, +0/-1dB (mic input to any output)

Distortion (THD):

Less than .005% (any output, 1kHz @ +14dBu, 20Hz-20kHz, channel input)

Equalization:

Low: ±15dB @ 80Hz

Mid: ±12dB @ 2.5kHz

Hi: ±15dB @ 12kHz

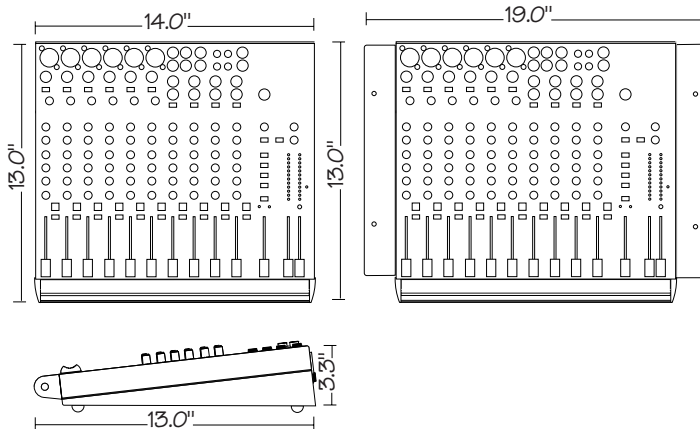
Maximum output level:

+28dBu balanced

+22dBu unbalanced

Weight:

9.5 lbs. (4.3 kg)



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