

ZED 420



16 MIC/LINE INPUTS

2 DUAL STEREO INPUTS

4 SUB GROUPS

6 AUX SENDS

- 16 mono channels
- 2 dual stereo inputs with 4-band EQ
- Neutrik mic XLR
- Neutrik 1/4 inch jacks
- Channel insert
- Super wide gain mic/line input
- 4-band EQ with 2 swept mids and in/out switch
- Illuminated mute
- Sound image pan
- Illuminated PFL & peak warning indicator
- ALPS 100mm faders
- 6 auxiliary sends (2 pre, 2 post, 2 pre/post)
- 4 sub groups fed from each channel
- All inputs with level control
- 12 bar meters
- L, R and M main mix outputs
- 2 matrix sections available; can send output to USB
- Individual channel 48V phantom power
- Direct output on every mono channel
- Peak and signal indication on every channel
- Configurable USB stereo audio in/out
- Master level controls on all outputs
- Easy to use layout – all connections and controls on top surface





TECH SPECS

Operating Levels: Inputs

Mono channel (XLR) Input +6 to -63dBu for nominal (+17dBu in max)
 Mono channel Line Input (Jack socket) +10 to -26dBu (+30dBu maximum)
 Insert point (TRS Jack socket) 0dBu nominal +21dBu maximum
 Stereo Input (Jack sockets) 0dBu nominal (control = Off to +10dB)
 Stereo input (phono sockets) 0dBu nominal (control = Off to +10dB)
 2 Track Input (phono sockets) 0dBu nominal +21dBu maximum

Outputs

L, R & Mono Outputs (XLR) +4dBu nominal. +27dBu maximum.
 L, R & M Insert (TRS Jack socket) -2dBu nominal +21dBu maximum
 Group Outputs (Jack sockets) +4dBu nominal. +27dBu maximum.
 Group Insert (TRS Jack socket) -2dBu nominal +21dBu maximum
 Aux Outputs (Jack sockets) -2dBu nominal +21dBu maximum (Bal Option +4)
 Matrix Outputs (TRS Jack socket) -2dBu nominal. +21dBu maximum. (Bal Option +4)
 2 Track Output (phono sockets) 0dBu nominal. +21dBu maximum.
 Direct Out (TRS Jack socket) 0dBu nominal. +21dBu maximum.

Frequency Response

Mic in to Mix L/R Out, 30dB gain +0.5/-1dB 20Hz to 20kHz.
 Line in to Mix L/R out 0dB gain +0.5/-1dB 10Hz to 30kHz
 Stereo in to Mix L/R out +0.5/-1dB 10Hz to 30kHz

THD +n

Mic in to Mix L/R Out, 0dB gain 1kHz +10dBu out 0.004%
 Mic in to Mix L/R Out, 30dB gain 1kHz 0.014%
 Line in to Mix L/R out 0dB gain 0dBu 1kHz 0.005%
 Stereo in to Mix L/R out 0dB gain +10dBu 1kHz 0.003%

Headroom

Analogue Headroom from nominal (0Vu) 21dB
 USB in & out headroom from nominal (0Vu) 14dB
 USB Audio CODEC (Coder/Decoder)
 USB Audio In/Out USB 1.1 compliant 16bit.
 Sample Rate 32, 44.1, or 48kHz

Noise

Mix Noise, LR out, 16 channels routed, Ref +4dBu, 22-22kHz -90dB (-86dBu)
 Mix Noise, LR out, 24 channels routed, Ref +4dBu, 22-22kHz -89dB (-85dBu)
 Mix Noise, LR out, 32 channels routed, Ref +4dBu, 22-22kHz -88dB (-84dBu)
 Mic Pre EIN @ max gain 150R input Z 22-22kHz -127dBu

USB Audio CODEC (Coder/Decoder)

USB Audio In/Out USB 1.1 compliant 16bit.
 Sample Rate 32, 44.1, or 48kHz



DUOPRE

Based on the proven preamps from the hugely successful PA series, ZED 4-bus mixers have DuoPre preamps, which use a two stage design with carefully controlled amounts of gain in each stage. When amplifying the signal from the XLR input, the gain range is huge—69dB of range to be exact—and is very evenly distributed around the gain control, meaning better control of signal level. Most of the gain comes from the first stage, so unwanted noise is kept to a minimum. Line level signals are simply plugged into the second stage of the preamp by using the line input jack socket, which has the great advantages of less noise and matching to a higher input impedance.



MUSIQ - 4 BAND

All ZED 4-bus mixers employ a tuned 4-band EQ, taken from our acclaimed GL2400 mixer, utilising MusiQ British EQ with musical response. The two mid bands are swept and in/out switching allows instant comparison of the pre/post EQ signal.



USB AUDIO FLEXIBILITY

ZED makes it easy to get audio to and from your computer for live sound and music production. The way this has been implemented on ZED is super-flexible and super-easy. No longer do you need to fiddle around the back of your PC to get to the soundcard inputs, only to find that the levels are all wrong and noisy. Just plug in a USB lead, select the USB routing on the mixer and the device on your computer and that's it! CD quality audio to and from your PC or Mac. Switches and connection through jack socket terminals provide different send/return configurations.

ZED-14 / ZED-18 / ZED-24

Send options:

- 1) Main Mix Left + Right (Post-Fade)
- 2) Main Mix Left + Right (Pre-Fade)
- 3) Auxes 1-2
- 4) Auxes 3-4

Return options:

- 1) To Stereo 3 channel