Allen & Heath ZED-428 Specs

Total # Of Inputs	28
Mic/Line Inputs	24 x 3-Pin XLR Female Mic Inputs (Balanced) 24 x 1/4" TRS Line Inputs (Balanced/Unbalanced)
Stereo Line Inputs	4 x 1/4" TRS Line Inputs (Two Stereo Pairs, Balanced/Unbalanced)
In-Line Inputs/Returns	No
Aux Sends	6 x 1/4" TRS Mono (Balanced)
Aux Returns	4 x RCA Coaxial Line Inputs (Two Stereo Pairs, Unbalanced)
Inserts	24 x 1/4" TRS on Mono Channels (Unbalanced) 4 x 1/4" TRS on Group Buses (Unbalanced) 2 x 1/4" TRS on Stereo Main Bus (Unbalanced) 1 x 1/4" TRS on Mono Main Bus (Unbalanced)
Channel Direct Out	24 x 1/4" TRS (Balanced)
BUS (Group) Outputs	4 x 1/4" TRS Group Outputs (Balanced)

	2 x 1/4" TRS Matrix Outputs (Balanced)
Main Outputs	3 x 3-Pin XLR Male (One Stereo Pair and One Mono, Balanced)
Monitor Outputs	1 x 1/4" TRS Stereo Headphone Output (Unbalanced) 1 x 1/8" / 3.5 mm TRS Stereo Headphone Output (Unbalanced)
2-Track I/O	2 x RCA Coaxial 2-Track Input (One Stereo Pair, Unbalanced) 2 x RCA Coaxial 2-Track Output (One Stereo Pair, Unbalanced)
ALT I/O	1 x USB Type-B (2-Channel Send/Return)
Talkback Mic Input	1 x 3-Pin XLR Female (Balanced)
EQ Section	High (All Channels): ±15 dB Shelving Filter at 12 kHz High-Mid (Mono Channels): ±15 dB Peaking Filter at Selectable Frequency (500 Hz to 15 kHz, Sweepable) High-Mid (Stereo Channels): ±15 dB Peaking Filter at 2.5 kHz Low-Mid (Mono Channels): ±15 dB Peaking Filter at Selectable Frequency (35 Hz to 1 kHz, Sweepable) Low-Mid (Stereo Channels): ±15 dB Peaking Filter at 250 Hz Low (All Channels): ±15 dB Shelving Filter at 80 Hz
High-Pass Filter	12 dB/Octave at 100 Hz, Switchable

Solo/Mute	Mute and PFL Solo
Channel Level Control	100mm Fader
Trim/Gain Control	Rotary Control
Gain Range	Mic Inputs: -6 to +63 dB Line Inputs: -10 to +26 dB Stereo Inputs: $-\infty$ to +10 dB Faders: $-\infty$ to +10 dB Returns: $-\infty$ to +10 dB Aux Masters: $-\infty$ to +10 dB Matrix Levels: $-\infty$ to +6 dB
Phantom Power	+48 VDC, Selectable per Channel
Metering	Dual 12-Segment LEDs 4-Segment LED per Group Output 4-Segment LED per Main Output Signal LED per Channel Peak LED per Channel
USB Specification	USB 1.1 Compliant
Bit Depth	USB: 16-Bit
Sample Rates	USB: 32 kHz, 44.1 kHz, or 48 kHz
Nominal Input Level	Mic Input: -63 to +6 dBu Mono Line Input: -26 to +10 dBu Stereo Line Input: 0 dBu (+10 dB with Control Off) Insert Point: 0 dBu
Maximum Input Level	Mic Input: +17 dBu

	Mono Line Input: +30 dBu Insert Point: +21 dBu
Nominal Output Level	XLR Main Outputs: +4 dBu Group Outputs: +4 dBu Aux Outputs: -2 dBu Matrix Outputs: -2 dBu Inserts: -2 dBu 2-Track Output: 0 dBu Direct Output: 0 dBu
Maximum Output Level	XLR Main Outputs: +27 dBu Group Outputs: +27 dBu Aux Outputs: +21 dBu Matrix Outputs: +21 dBu Inserts: +21 dBu 2-Track Output: +21 dBu Direct Output: +21 dBu
Frequency Response	Mic In to Main Out (30 dB Gain): 20 Hz to 20 kHz (+0.5 dB, -1 dB) Line In to Main Out (0 dB Gain): 10 Hz to 30 kHz (+0.5 dB, -1 dB) Stereo In to Main Out: 10 Hz to 30 kHz (+0.5 dB, -1 dB)
THD + N	Mic In to Main Out (0 dB Gain, 1 kHz, +10 dBu Out): 0.004% Mic In to Main Out (30 dB Gain, 1 kHz): 0.014% Line In to Main Out (0 dB Gain, 1 kHz, 0 dBu): 0.005% Stereo In to Main Out (0 dB Gain, 1 kHz, +10 dBu): 0.003%
Headroom	Analog Headroom from Nominal (0 VU): 21 dB USB In and Out Headroom from Nomimal (0 VU): 14 dB

Noise	Mic Pre EIN: -127 dBu (Maximum Gain, 150-Ohm Input, 22 Hz to 22 kHz) Mix Noise: -89 dB (-85 dBu) (L/R Out, 24 Channels Routed, Ref +4 dBu, 22 Hz to 22 kHz)
Power Consumption	60 W Maximum
Power Requirements	100 to 240 VAC, 47 to 63 Hz
Dimensions (W x H x D)	36.6 x 5.1 x 22.1" / 93.0 x 12.9 x 56.0 cm
Weight	40 lb / 18.1 kg

Packaging Info

Package Weight	62 lb
Box Dimensions (LxWxH)	42 x 22 x 10.8"