Overview

- 2 x Mic/Line Inputs with GS Preamps.
- Global 48V Phantom power.
- 2 x Switchable Hi-Z Inputs.
- 2 x Stereo Line Inputs.
- Headphone Output.
- Hi-Pass filter on microphone inputs.
- HF & LF EQ adjustable pots on all channels.
- PFL select to headphone output.
A&E Specifications

The mixer shall be a compact and portable analog mixer with two mono and two stereo input channels mixing to a stereo Main Mix output. The mixer shall weigh no more than 1.27kg (2.8lbs).

Each mono input channel shall have an XLR Microphone connector and Line level quarter-inch jack connector and shall be equipped with High Pass Filter and 2-band equaliser circuit.

Stereo input channels shall use quarter-inch jack connectors, and shall have a fixed 2-band EQ.

All XLR Microphone inputs shall have the ability to power Condenser Microphones requiring 48 Volt Phantom Power. This shall be switchable and have a red LED to indicate activation.

There shall be two high-impedance jack inputs on mono channels, which can handle a normal line level or a low level input directly from a guitar pickup, allowing instruments such as guitars to be plugged straight into the mixer without the need for a DI box.

XLR Mic input characteristics shall conform to a Gain Min/Max of 6dB to 60dB with a maximum input level of 13dBu.

Quarter-inch jack Line input characteristics shall conform to a Gain Min/Max of -14dB to 40dB with a maximum input level of 18dBu.

The mixer surface shall include independent rotary control for each input channels gain, level and mix. Each channel should have an individual Pan control and a [PFL] switch to route to the headphone output. An LED shall indicate when a [PFL] channel is active.

The Headphone output should use a quarter-inch jack connector with a rotary to control output level.

The L&R outputs shall have XLR connectors and be controlled via a mix output fader. Level indication shall be via a stereo eight segment LED display.

It shall have a built in power supply accepting AC mains voltages of 100~240V, 50/60 Hz, 12W max via an earthed 3-pin IEC C6 male connector mounted on the rear chassis.

A switch shall be provided near the mains inlet to isolate the mixer from the incoming mains supply.

Recommended operating temperature for the mixer shall be 0 to 35 degrees Celsius.

The unit shall be the Allen & Heath ZED-6.

Technical Specifications

<table>
<thead>
<tr>
<th>Operating Levels</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input</strong></td>
<td></td>
</tr>
<tr>
<td>Mono channel (XLR) Input (For Nominal 0dBu)</td>
<td>-5dBu to -60dBu (+13dBu in max)</td>
</tr>
<tr>
<td>Mono channel Instrument/Line Input (Jack socket)</td>
<td>+14dBu to -40dBu (+17dBu maximum)</td>
</tr>
<tr>
<td>Stereo Input (Jack sockets)</td>
<td>0dBu nominal (control = Off to +15dB Gain)</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td></td>
</tr>
<tr>
<td>L/R Outputs (XLR)</td>
<td>0dBu (+18dBu maximum)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Frequency Response</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mic in to Mix L/R Out, 30dB gain</td>
<td>10Hz to 20kHz +0.5/-1dB</td>
</tr>
<tr>
<td>Instrument/Line in to Mix L/R out 0dB gain</td>
<td>10Hz to 20kHz +0.5/-1dB</td>
</tr>
<tr>
<td>Stereo in to Mix L/R out</td>
<td>10Hz to 20kHz +0.5/-1dB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>THD+n</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mic in to Mix L/R Out, 10dB gain 1kHz +10dBu out (22Hz-22kHz Filter)</td>
<td>0.0025%</td>
</tr>
<tr>
<td>Mic in to Mix L/R Out, 30dB gain 1kHz (22Hz-22kHz Filter)</td>
<td>0.006%</td>
</tr>
<tr>
<td>Instrument in to Mix L/R out 0dB gain 0dBu 1kHz (22Hz-22kHz Filter)</td>
<td>0.03% 2nd Harmonic</td>
</tr>
<tr>
<td>Stereo in to Mix L/R out 0dB gain +10dBu 1kHz (22Hz-22kHz Filter)</td>
<td>0.0025%</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Headroom</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Analogue Headroom from nominal (0Vu)</td>
<td>18dB</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Noise</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Mic Pre EIN @ max gain 150R input Z (22Hz-22kHz Filter)</td>
<td>-127dBu</td>
</tr>
<tr>
<td>Mix L/R out, L/R fader = 0, Channel Levels min (22Hz-22kHz Filter)</td>
<td>-95dBu</td>
</tr>
<tr>
<td>Mix L/R out, L/R faders = 0, Channel Levels 0dB (22Hz-22kHz Filter)</td>
<td>-92dBu</td>
</tr>
</tbody>
</table>
Block Diagram

ZED-6的技术规范

ZED-6 BLOCK DIAGRAM

MONO CHANNEL

STEREO CHANNEL

MIC IN

48V To Mics

2 BAND EQUALISER

80Hz 12kHz

LEVEL

MIX

CLASS A

LINE LEVEL & INSTRUMENT IN

ST1 & 2

M1 & 2

PFL MIX

BAIL

PFL

48V To Mics

GAIN

MIC IN

GAIN

MIX LEVEL

PHONES LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL

LEVEL
## Mixer Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>ZED-6</th>
<th>ZED-6FX</th>
<th>ZEDI-8</th>
<th>ZEDI-10</th>
<th>ZEDI-10FX</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Analog</td>
<td>Analog</td>
<td>Analog</td>
<td>Analog</td>
<td>Analog</td>
</tr>
<tr>
<td>Channels</td>
<td>6</td>
<td>6</td>
<td>8</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Inputs - Mic Preamps</td>
<td>2 x XLR</td>
<td>2 x XLR</td>
<td>2 x XLR</td>
<td>4 x XLR</td>
<td>4 x XLR</td>
</tr>
<tr>
<td>Inputs - Line</td>
<td>2 x TRS (CH 1-2)</td>
<td>4 x TRS (CH 3-4 ST)</td>
<td>2 x TRS (CH 1-2)</td>
<td>4 x TRS (CH 3-4 ST)</td>
<td>4 x TRS (CH 1-4)</td>
</tr>
<tr>
<td>Outputs - Main</td>
<td>2 x XLR (Main)</td>
<td>2 x XLR (Main)</td>
<td>2 x XLR (Main)</td>
<td>2 x XLR (Main)</td>
<td>2 x XLR (Main)</td>
</tr>
<tr>
<td>Outputs - Other</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>2 x RCA (Monitor)</td>
<td>2 x RCA (Monitor)</td>
</tr>
<tr>
<td>Headphones</td>
<td>1 x 1/4&quot;</td>
<td>1 x 1/4&quot;</td>
<td>1 x 1/4&quot;</td>
<td>1 x 1/4&quot;</td>
<td>1 x 1/4&quot;</td>
</tr>
<tr>
<td>Send/Return I/O</td>
<td>-</td>
<td>1 x 1/4&quot; (FX)</td>
<td>USB</td>
<td>2 x 1/4&quot; (1x AUX, 1x FX)</td>
<td>2 x 1/4&quot; (1x AUX, 1x FX)</td>
</tr>
<tr>
<td>Phantom Power</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>EQ Bands</td>
<td>2-band, (CH 1-2)</td>
<td>2-band, (CH 3-4 ST)</td>
<td>2-band, (CH 1-2)</td>
<td>2-band, (CH 3-4 ST)</td>
<td>3-band (CH 1-4)</td>
</tr>
<tr>
<td>Aux / FX Sends</td>
<td>-</td>
<td>1 x Post (Per Channel)</td>
<td>-</td>
<td>1 x Pre, 1 x Post (Per Channel)</td>
<td>1 x Pre, 1 x Post (Per Channel)</td>
</tr>
<tr>
<td>Busses/Groups</td>
<td>Stereo Bus</td>
<td>Stereo Bus</td>
<td>Stereo Bus</td>
<td>Stereo Bus</td>
<td>Stereo Bus</td>
</tr>
<tr>
<td>Channel Inserts</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Effects</td>
<td>-</td>
<td>Yes</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
</tr>
<tr>
<td>Computer Connectivity</td>
<td>-</td>
<td>-</td>
<td>1 x USB</td>
<td>1 x USB</td>
<td>1 x USB</td>
</tr>
<tr>
<td>Rack-mountable</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Height</td>
<td>3.5&quot;</td>
<td>3.5&quot;</td>
<td>3.5&quot;</td>
<td>3.8&quot;</td>
<td>3.8&quot;</td>
</tr>
<tr>
<td>Width</td>
<td>9.8&quot;</td>
<td>9.8&quot;</td>
<td>9.8&quot;</td>
<td>13.1&quot;</td>
<td>13.1&quot;</td>
</tr>
<tr>
<td>Depth</td>
<td>9.3&quot;</td>
<td>9.3&quot;</td>
<td>9.3&quot;</td>
<td>10.8&quot;</td>
<td>10.8&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>2.8 lbs.</td>
<td>3 lbs.</td>
<td>3 lbs.</td>
<td>4.85 lbs.</td>
<td>5.1 lbs.</td>
</tr>
</tbody>
</table>

### Dimensions

- **HEIGHT:** 88.9mm (3.5")
- **WIDTH:** 249mm (9.8")
- **DEPTH:** 236.4mm (9.3")