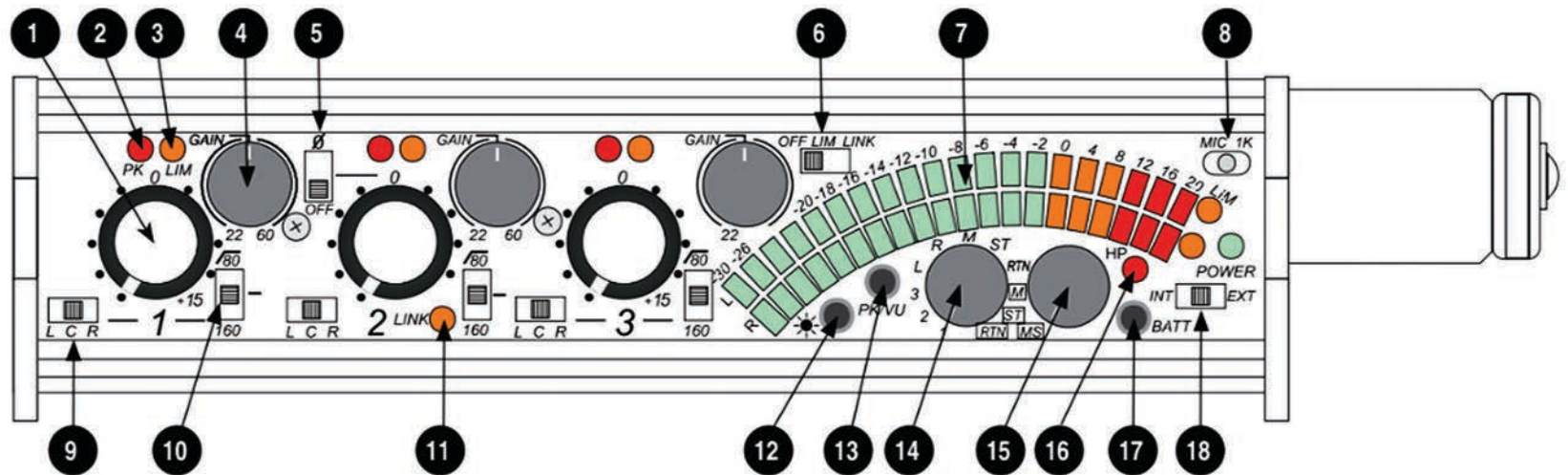


Sound Devices 302 Mixer - Front



1. Fader

Primary control for adjusting the input level during operation.

2. Peak LED

When illuminated, indicates that the channel level is approaching the clipping point.

3. Limiter LED

When illuminated, indicates that the channel limiter is active and is reducing the channel gain to prevent overload.

4. Gain (Trim)

Coarse input gain control. Sets the initial input sensitivity level so that the Fader can be used for fine gain adjustments.

5. Polarity Reverse Switch – Input 2

When engaged, the polarity of Input 2 is reverse (180° out-of-phase) with respect to inputs 1 and 3. Useful to flip the stereo image with MS stereo.

6. Limiter Switch

Activates both input and output limiters. ON is dual-mono limiter operation, LINK is stereo operation. Output limiter threshold is set in the Setup Menu.

7. Output Meter

Sunlight-viewable, 20-segment LED meter. Calibrated in dBu when peak reading.

8. Slate Mic/Tone Switch

Two-position switch, activates the slate microphone in the left (momentary) position, or the tone oscillator in the right (latched) position. Additional options are available in the Setup Menu.

9. Pan Switch

Assigns the input channel to the output bus. Left-only, Center (equal left and right), or Right-only.

10. High-Pass Filter (Low Cut)

Three-position switch engages the high-pass filter. Used to reduce excessive low frequencies. 12 dB per octave at 80 Hz or 160 Hz. Center position is off.

11. Stereo Link LED (Inputs 1 & 2)

Indicates that inputs 1 and 2 are linked as a stereo pair. Controlled in the Setup Menu. In L/R stereo link input 2 Fader controls overall stereo level. When in MS position input 1 Gain (Trim) controls Mid, input 2 Gain (Trim) controls the amount of stereo (Side) information and the input 2 Fader controls the overall MS stereo level.

12. Meter Brightness

Controls the brightness of the LED output meter. Each push selects among the four brightness levels.

13. Meter Ballistics

Toggles among the available meter ballistic options: VU-only, peak-only, combo peak/VU, peak-hold/VU.

14. Headphone Selector Switch

Sets the signal source sent to headphones. Options include: input PFL 1, 2, 3; left output bus; right output bus; Mono (summed left and right); STereo master; RTN - stereo monitor return; MS-mono; MS-stereo; RTN-MS.

15. Headphone Volume

Adjusts the overall volume of the headphones. NOTE: the headphone output is capable of ear-damaging levels. Take care when adjusting among signal sources.

16. Headphone LED

Indicates signal overload in the headphone and RTN circuits.

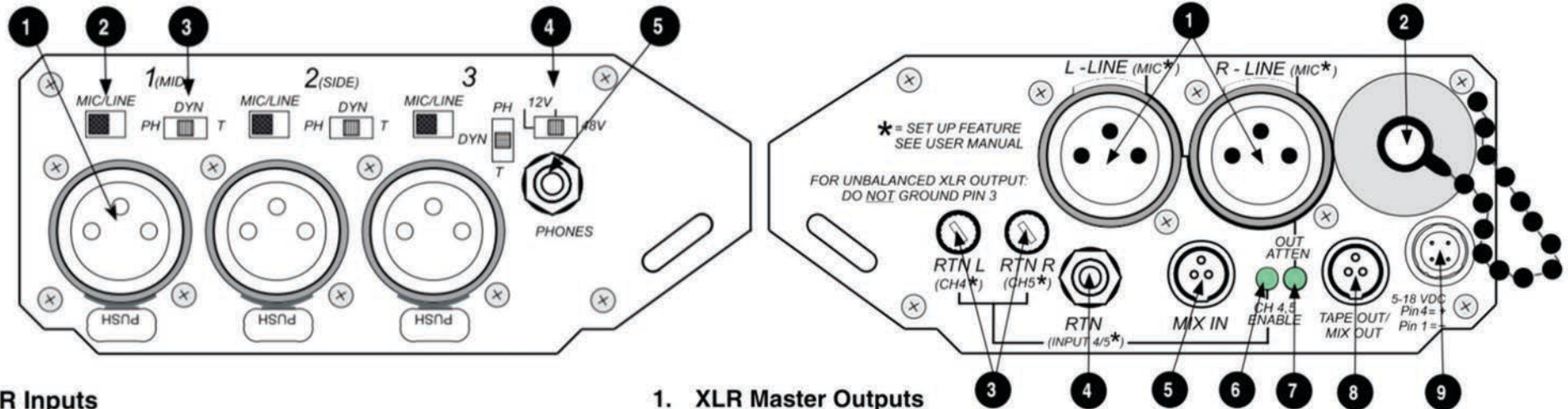
17. Battery Check Button

Press and hold to display the internal and external battery levels on the output meter. Battery level remains for two seconds after button release

18. Power Switch/LED

Three-position switch, selects between internal battery power or external DC sources, middle position is off. Power LED illuminates when power is on. LED flashes when voltage reaches low limit. [See Powering.](#)

Sound Devices 302 Mixer - Left & Right Sides



1. XLR Inputs

Transformer-balanced channel inputs. Pin-1 = ground; pin-2 = 'hot'; pin-3 = 'cold'. Can be unbalanced by grounding pin-3 to pin-1 of the XLR connector.

2. Mic/Line Channel Switch

Selects the input level of the adjacent connector. Mic level has 40 dB more gain than line level.

3. Phantom/DYNAmic/T-Power Selection

Selects the microphone powering type of the adjacent input. DYN position turns off all microphone powering. Mic powering is selected per input. NOTE: Use T-Powering only for T-Powered microphones.

4. Phantom Voltage Selection

Selects between 48 V or 12 V phantom voltage for all input channels. The three-position switch uses two positions for 12 V, there is no difference between these positions.

5. Headphone Output

3.5 mm TRS stereo headphone output. Can drive headphones from 8 to 2000 ohms to required monitoring levels.

1. XLR Master Outputs

Active-balanced outputs. Pin-1 = ground; pin-2 = 'hot'; pin 3 = 'cold'. Can be unbalanced by using pin-2 for signal and pin-1 for ground.

2. Battery Tube

Holds three-AA batteries for internal powering. Accepts alkaline, lithium, or NiHM rechargeable cells.

3. Return (Channel 4/5) Level Control

Adjusts the gain of the return feed to balance program and monitor signals in headphones.

4. Return (Channel 4/5) Input

Unbalanced stereo 3.5-mm input connector for return monitor audio. 3.5-mm wired tip = left, ring = right, sleeve = ground. Connection used for inputs 4 & 5 when selected in Setup Menu.

5. Mix In

An input to the master bus designed exclusively to link the Tape Out / Mix Out of 302, 442, MixPre, or MP-2 to the 302 for additional inputs. Pin-1 = ground, pin-2 = left, pin-3 = right. Shell of TA3 connector must be grounded to pin-1 to open connection.

6. Channel 4/5 Activation LED

When illuminated, indicates that the return connector is now set as input 4 and 5 in the Setup Menu.

7. Output Attenuation LED

When illuminated, indicates that the XLR output connectors are set for a level other than the factory default line level. *See Setup Menu to set XLR output levels.*

8. Tape Out / Mix Out

Unbalanced stereo output on TA3-type connector. Same program as master output. Pin-1 = ground, pin-2 = left, pin-3 = right. Also used to link to the Mix In of a 442 or 302.

9. DC Input

Accepts DC voltages from 5–18 VDC for mixer powering. Hirose 4-pin connector wired pin-1 negative (-), pin-4 positive (+). Ext DC is completely isolated (floating) from the rest of the circuitry.