

# WENDT X5 AUDIO MIXER

## OPERATIONS DESCRIPTIONS

### FRONT PANEL



1. Channel Faders – The faders marked CH 1 thru CH 5 correspond to the mic XLR inputs also marked CH 1 thru CH 5. These channel faders control the post preamp gain.
2. PFL Switches – The momentary push button switches allow pre fade listening of all 5 channels (monitor function only). The pre fade level is factory pre set for approximately one o'clock of the fader positions. A level adjustment is available on the right side panel.
3. Battery Test – The push button switch marked BATT TEST when enabled indicates the battery voltage on the right meter. A set of new batteries will indicate up to and including the 0db position on the right meter.
4. Meter Illumination – The meter illumination remains on continuously when the mixer is powered on.
5. Low Cut Filters – The switches marked 140 20 100 insert a 12db per octave hi pass filter in each channel as follows: the 20 position is a flat response to 20HZ, and the 100 and 140 positions roll off at 100HZ and 140HZ.
6. Reference Tone – The TONE button when pushed IN (push on/push off switch) enables a 400HZ reference tone oscillator which provides a 0db (0dbVU on VU Scale and 0dbu on the PPM scale) reference tone to the right and left line outputs. The push button OUT position disables the tone.
7. Slate Mic – The push button switch marked MIC when pushed in, enables the slate function which is outputted to the left and right mix buses.
8. Power Monitor – The LED marked PWR slowly flashes on and off under normal power voltage conditions and turns to a continuous ON when external power or battery voltages are dangerously low.
9. HP Monitor Control – The switch marked L STEREO R allows the operator to switch the headphones to left both ears, stereo (center position), or right both ears.
10. Meters – The two meters, right and left, are calibrated in VU db on the VU meter or in the case of PPM meter, dbu.
11. Power Switch – The three position POWER switch marked INT and EXT allows the mixer to be powered from the internal (batteries) or an external power source. The center position is off (no power source is connected).
12. Return Switch – The switch marked RTN A, MIX, and RTN B allows returns from any remote location to be switched from the front panel. The MIX position (center) monitors the mixer right and left output buses. The A and B returns are both stereo returns via the mini jacks (3.5mm) located on the right panel. The B return also returns stereo via the 12 pin HRS connector located on the left panel. This B return is algebraically summed with the B return from the 3.5mm mini jack.
13. Pan Switches – Channels 1-5 pan switches marked L, PAN, R. These switches allow channel assignment right, left and center.

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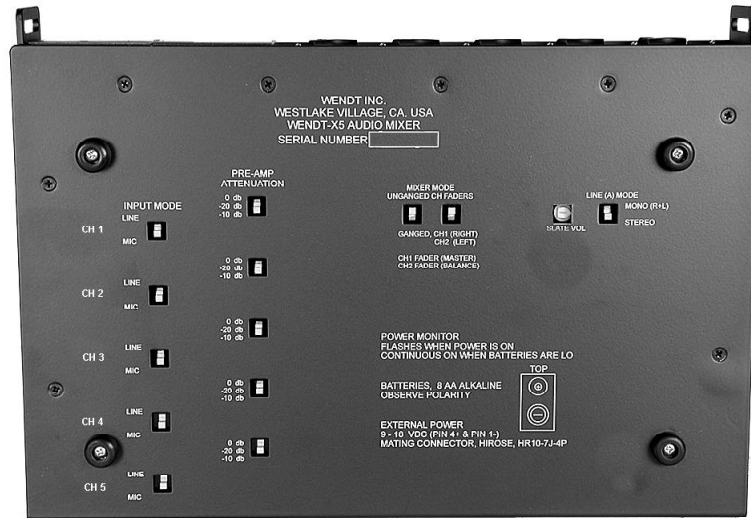
## RIGHT SIDE PANEL



1. PFL Volume – The trim pot marked PFL VOL is a screwdriver adjustment that allows the PFL volume to be adjusted by approximately +/- 3db.
2. Line (A) Outputs – The right and left line (A) outputs provide electronically balanced line or mic levels. Each output can be switched from line level to mic level using the MIC-LINE switch. In the LINE position full drive capability is available and in the MIC position the line level is attenuated by 50db. These outputs are Switchcraft TA connectors which are wired pin 1 – ground, pin 2 – hi, and pin 3 – low.
3. Line (B) Outputs – The right and left line (B) outputs provide electronically balanced line or mic levels. Each output can be switched from line level to mic level using the MIC-LINE switch. In the LINE position full drive capability is available and in the MIC position the line level is attenuated by 50db. These outputs are XLR connectors which are wired pin 1 – ground, pin 2 – hi, and pin 3 – low.
4. Mic Out – The 3.5mm jack marked MIC OUT provides unbalanced stereo outputs which are 50db below line levels.
5. External Power – A quick release 4 pin Hirose connector marked EXT PWR allows the unit to operate from an external power source of 9V-18V. The mating connector Hirose, HR10A-7P-4P, must be wired such that pin 4 is positive voltage and pin 1 is negative voltage. The voltage input range is specified to be 12-18 VDC.
6. Battery Compartment – Eight AA batteries are required for the mixer powering and must be inserted per the diagram shown on the bottom cover.
7. Headphone Volume – The knob marked MONITOR VOLUME controls the headphone volume.
8. Limiter – The stereo limiting function is controlled by the switch marked LIMITER (OUT IN) where the limiting function is enabled in the IN position.
9. Phone Jack – The jack marked PHONES is the stereo monitor headphone jack (6.5mm, 1/4”).
10. HP Monitor Matrix Switch – The switch called PHONES has three operating positions – mono, stereo, and mid-side which allows the headphones to be switched to any of the three modes.
11. Stereo Returns – The two min jacks (3.5mm) marked RTN (A) and RTN (B) are a stereo returns from any remote location desired. The RTN (B) is algebraically summed with the RTN (B) from the 12 pin HRS connector on the left panel. These returns are unbalanced stereo where the connector ring is ground, the tip is left and the second ring is right.
12. Link – The 5 pin connector marked LINK allows two X5 mixers to be cross-linked which yields a full 10 channel mix with 8 line outputs. Contact Wendt Inc. for the connecting cable and any other special information required.

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## BOTTOM PANEL



1. Preamplifier Gain – The switches labeled PRE-AMP ATTENUATION (0db, -20db, -10db) control the preamplifier gain where 0db is maximum gain, -10db reduces the gain by 10db, and -20db reduces the gain by 20db. The 10 and 20 positions are typically used for powered mics.
2. Input Mode (Mic/Line) – The switches labeled INPUT MODE and LINE, MIC allow mic or line input to each channel where in the line position the input is attenuated by 50db.
3. Stereo and Mid-Side Recording – The switches marked MIXER MODE allow Channel 1 and Channel 2 to be used in a full stereo mode. When both switches are in the ganged position Channel 1 and Channel 2 mic inputs are controlled by Channel 1 fader and Channel 2 fader becomes the balance control. When switched to the ungangd position, which is the normal operating mode of the mixer, each channel is controlled by its own fader and assigned by its pan switch.
4. Slate Vol – The trim pot marked SLATE VOL controls the slate mic pre amplifier gain and can be accessed by using a small screwdriver via a hole in the bottom panel.
5. Line (A) Mode – The switch marked LINE (A) MODE allows the line (A) outputs to be switched in either stereo or right plus left. In the stereo position the line (A) output (TA connectors) is the normal mode where each line (A) output operates in the stereo mode right and left. The MONO (R+L) position switches the two line (A) outputs to mono mode which is the sum of the mix on the right and left buses. In this mode the bus outputs are summed, a single tone such as the reference tone (400hz) is increased in level by 6db.

# WENDT X5 AUDIO MIXER OPERATIONS DESCRIPTIONS

## LEFT SIDE PANEL



1. Mic Inputs, Channel 1 – 5 – The XLR mic inputs are electronically balanced where pin 1 is shielded ground, pin 2 is input high, and pin 3 is input low.
2. Mic Powering – The mic powering switches labeled 48, DYN, 12T allow 3 modes of mic powering, 48V phantom, 12V T power (pin 2 is positive voltage) and dynamic DYN (which is non powered).
3. Accessory Connector – A quick-release Hirose 12 pin connector is tied to the mixer line (B) outputs and stereo unbalanced returns which are algebraically summed with the line (B) returns via the mini jack on the right panel. These returns and line outs are all stereo right and left. The mating connector is Hirose part number HR10A-10P-12P.

## LIMITED WARRANTY

The Wendt X5 mixer is covered by a one year warranty to be free from defects in material and workmanship. In the event your Wendt X5 mixer needs repair, please call us for a return authorization. If approved, then carefully pack and ship it to us prepaid. We will repair or replace at our option and return ship via carrier and method of Wendt Inc.'s choice. This warranty does not apply to defects caused by misuse, abuse or altered goods. There are no express or implied warranties which extend beyond the warranty made here.

**WENDT INC.  
WESTLAKE VILLAGE, CA U.S.A.**

**TEL (805) 494-4432  
email: wendt\_inc@earthlink.net**

**[www.wendttinc.net](http://www.wendttinc.net); [www.wendtaudio.com](http://www.wendtaudio.com); [www.wendtmixers.com](http://www.wendtmixers.com)  
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