

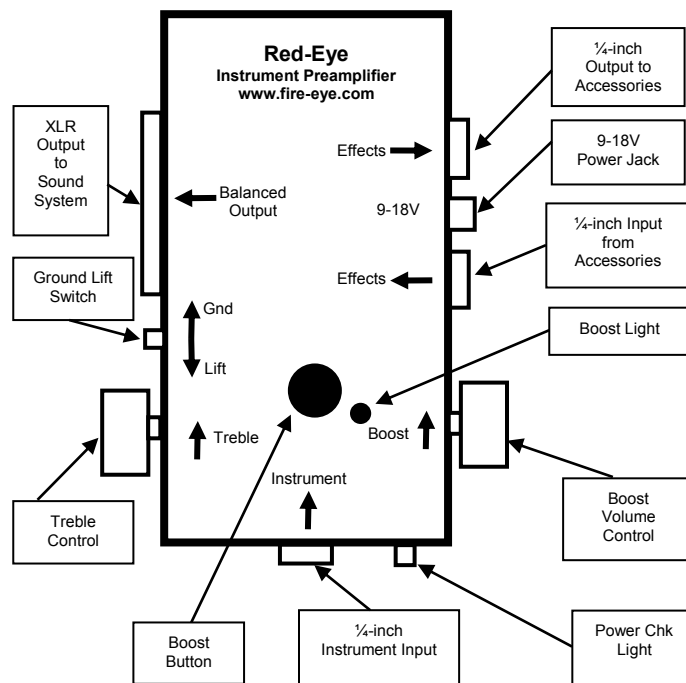
Red-Eye Instrument Preamp™

The Red-Eye Instrument Preamp offers a simple direct-connect solution for musicians playing instruments with high-impedance piezoelectric pickups. The Red-Eye Preamp works well with instruments having passive or active piezo pickups or those with magnetic pickups such as electric guitars and electric basses.

The Red-Eye Preamp's impedance-matching field-effect transistor input circuit is designed especially to match and track the impedance of passive piezoelectric pickups. That results in a smooth, natural, balanced, acoustic instrument tone. Low distortion, low noise, and generous headroom mean that clear tone comes through even when an instrument is played percussively and loudly.

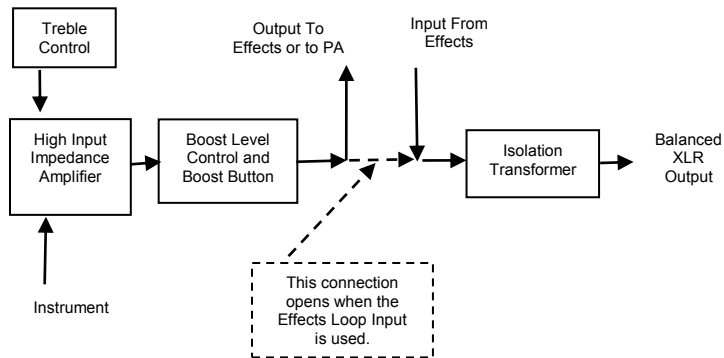
Features:

- Input: Impedance-matching, accepts up to 2 volt peak-to-peak level without distortion.
- Low-impedance, balanced, XLR output, 600 ohms with ground-lift switch,
- Boost button with volume control for amplifying solos.
- Treble control to boost or reduce treble. Response is flat when control is centered.
- Usually powered by 48-volt XLR phantom power but has an internal 9-volt battery and a 9 to 18-volt center-negative, center-ground, power jack as alternatives.
- Long 9-volt battery life (~200 hours). Battery is not used if other power is present.
- Plugging an instrument in or connecting external power turns the Red-Eye on.
- Pwr Chk Light illuminates for about a second if power is good when the preamp is powered up. When powered up on the battery, the light will appear if the battery is in the first ¾ of its life.
- ¼ inch output and input for effects accessory loop, suitable for stomp-tuners or effects pedals or for output to on-stage guitar amps or PAs.
- Internal filtering to reject radio-frequency interference from neon lights and cell phones.
- Small Chassis Size: 1.25 x 2.25 x 4.25 inches. Weight: 10 ounces.



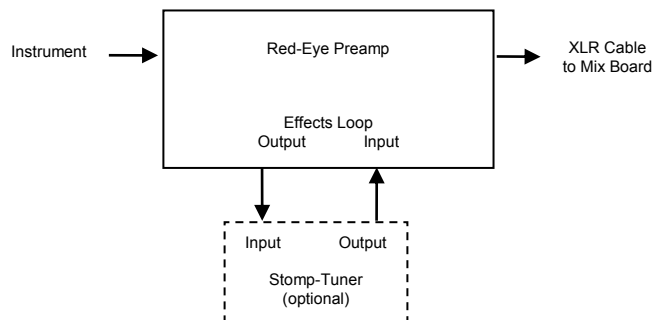
Red-Eye Preamp Signal Path:

- The Instrument Input impedance varies with frequency and pickup type.
- The Effects Output impedance is 2,000 to 4,000 ohms depending on Boost settings.
- The Effects Input impedance is 4,000 ohms.
- The XLR Output impedance is 600 ohms.
- Frequency response is flat from 10 Hz to 20 KHz when Treble Control is centered.
- Boost level above no Boost: Minimum Boost: +2 db, Maximum Boost: +7 db
- Noise Floor (hiss) is 130 db below 1V peak-peak input level.
- Total Harmonic Distortion is less than 0.05% at 1V peak-peak input level.



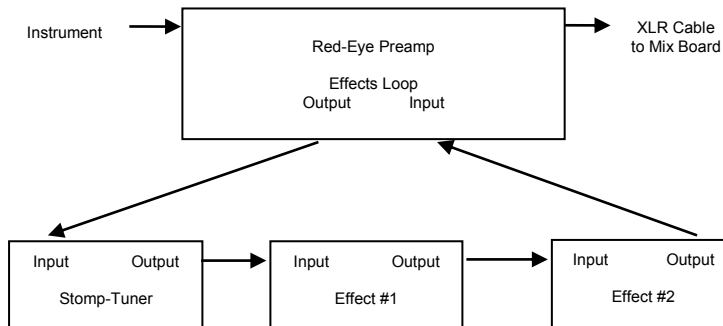
Using the Red-Eye Preamp to simply connect your instrument to a club's sound system:

- You have control over your instrument's treble.
- You have control over solo boost if you need it.
- If you turn on a Stomp-Tuner, the XLR output to the Mix Board will be muted.



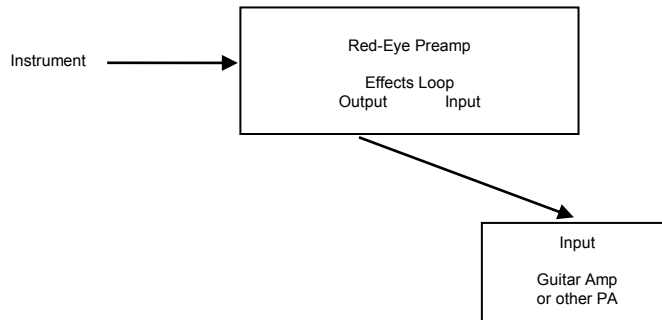
Using several effects pedals or a pedal board with the Red-Eye Preamp:

- Connect Effects and/or a Stomp-Tuner in series to the Red-Eye Preamp Effects Loop.
- Effect Boxes and/or Stomp-Tuner will affect the XLR output to the Mix Board.



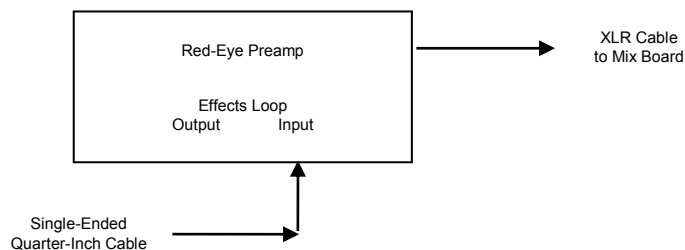
Using the Red-Eye Preamp with an on-stage Guitar Amp or Instrument PA:

- Add any effects boxes you want in series between the Red-Eye Preamp and the PA.
- Red-Eye Preamp works to control the instrument's treble and gives you a solo boost button.

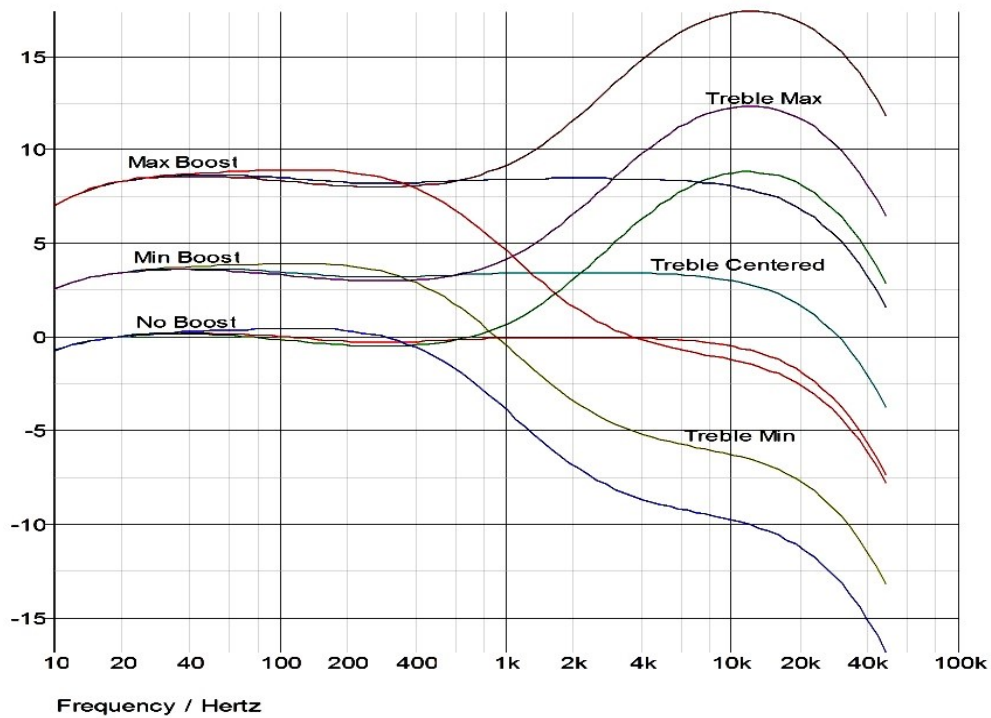


Using the Red-Eye Preamp as a passive Direct Interface:

- The Red-Eye can also be used as a high-quality passive direct box. The isolation transformer used in the Red-Eye Preamp has a nearly linear response from 18 Hz to over 30 KHz.
- Power is not required
- 4,000 ohm input-impedance, single-ended input
- 600 ohm output-impedance, balanced output



Relative Boost Gain and Treble Response (db)



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