

Smaart[®] I-O

PRECISION AUDIO INTERFACE FOR USE WITH SMAART MEASUREMENT SOFTWARE



The Smaart I-O is a measurement-grade 2x2 USB audio interface designed and built specifically for use with Smaart v7 Measurement Software. The I-O features two high-quality, active balanced inputs with 50 dB of computer adjustable gain in precision 1 dB steps. These input gains are monitored directly by Smaart allowing the user to retain accurate SPL calibration while varying measurement signal input levels.

The Smaart I-O employs Neutrik combo jacks (XLR / ¼”) to accommodate both mic and line level inputs, each with switchable 48V phantom power on the XLRs for measurement mics and a 20 dB pad on the ¼”s to accommodate line level signals. The Smaart I-O also features two active balanced XLR outputs capable of providing +8.2 dBu (2 Vrms) max level signal for playback or excitation sources.

Powered by the USB port of your computer (or via the optional 5 VDC jack), the Smaart I-O provides a compact and portable measurement-quality interface for your Smaart rig.

SMAART I-O KEY FEATURES:

PRELIMINARY

- **Two (2) Neutrik XLR - ¼” combo jack inputs:**
 - o Computer controllable 50 dB analog gain in precision 1 dB steps
 - o Max input (at minimum gain): +6 dBu (XLR), +26 dBu (¼”)
 - o Active balanced with 2k ohm impedance (XLR), 65k ohm (¼”)
- **Two (2) Active Balanced XLR Outputs**
 - o 150 ohm impedance
 - o Max Output: +8.2 dBu (2.0 Vrms) w/ 100k ohm load
- **Frequency Response**
 - o Magnitude: 16 Hz – 20 kHz, +/- .25 dB
 - o Phase: 16 Hz – 20 kHz, +/- 10 deg
- **Sample rate clocks of multiple I-O’s can be linked to allow for device aggregation in Smaart’s dual-channel measurements.**
- **Bus powering via USB for convenient, single-cable connection to the computer.**
- **Optional 5 VDC jack in cases of insufficient USB power**
- **Mac[®] OS X 10.5+, Windows[®] XP/ Vista/7**
- **Dimensions:** 1.5” (h) x 7.25” (w) x 4.25” (d)
3.8 cm (h) x 18 cm (w) x 10 cm (d)
- **Weight:** 1.8 lbs / .8 kg



[Front Panel]



[Back Panel]


rational acoustics

241 H Church Street
Putnam, CT 06260 USA
(T) +1-860-928-7828
(F) +1-860-394-4969

www.rationalacoustics.com