BAS002 Amplifier
Amplifier used with BAS001 or BAS003 for Measurement of Building Acoustics & Reverberation Time

**Highlights**
- Compact, Lightweight Design
- 500W Output Power
- 5 Hz to 60 kHz bandwidth
- THD + N < 0.12%
- Remote control
- Arbitrary waveform using USB memory
- Pre-programmed pink and white noise
- Fast and easy-to-use
- Utilize the 831 noise generator for fully automated reverberation time measurement

**Applications**
- Reverberation Time
- Building Acoustics
- Absorption Coefficient
- Room Acoustics

**For Use with Optional Speakers:**

Measurement of reverberation time, sound isolation, and absorption coefficient are generally important measurements when verifying that a space or material complies with design goals. When making these measurements in the field or laboratory it is important to have equipment that is dependable, portable and easy to set up and use. When coupled with the BAS001 omnidirectional speaker or BAS003 directional speaker, the BAS002 amplifier is the ideal sound source for making room and building acoustics measurements.

For a complete measurement system, use the Larson Davis Model 831 sound level meter configured with the 831-RT reverberation time measurement software in order to easily make in-field measurements. Add DNA software and enable computation of a variety of building acoustic metrics compliant with ISO and ASTM standards with results that can be quickly composed into a fully customizable report.

LARSON DAVIS
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## Specifications

### BAS002 Amplifier

#### Acoustic Standards

- ISO 140-3: When used with BAS001
- ISO 140-4: When used with BAS001
- ISO 140-5: When used with BAS001 or BAS003
- ISO 3382-1: When used with BAS001
- ISO 3382-2: When used with BAS001
- ISO 354: When used with BAS001
- ASTM E90: When used with BAS001
- ASTM E336: When used with BAS001 or BAS003
- ASTM E966: When used with BAS001
- DIN 52210: When used with BAS001 or BAS003

#### Power

- **BAS002-U**: 90 - 132.5 VAC, 55 - 65 Hz
- **BAS002-E**: 190 - 265 VAC, 45 - 55 Hz

#### Connectors

- **Analog In**: Connector BNC, Input Voltage ±10 Vpk (max), Input Impedance 100 kΩ
- **Analog Out**: Connector BNC, Output Voltage ±10 Vpk (max), Output Impedance 50 Ω
- **Speaker Connector**: Neutrik Speak-on 4-pole
- **Digital I/O**: Connector Mini XLR 3-pin male, Pin 1 (trigger out): 0 - 5 VDC, 30 mA max, Pulse on start and stop, Pin 2 (Ground): 9 VDC, Pin 3 (Trigger input): 0 - 5 VDC, 30 mA max, Pulse high to start and stop

#### Physical

- **Dimensions**: 12.2 x 9.4 x 4.7 in; 31 x 24 x 12 cm
- **Weight**: 8.8 lbs; 4 kg

#### Compliance

- Low Voltage Directive: 2006/95/EC
- Low Voltage: IEC 60601-1, UL 60601-2 2nd Ed
- FCC: FCC part 15b, Class A
- EMC Emissions: IEC 61000-6-4
- EMC Immunity: IEC 61000-6-1
- CE
- ROHS

### Remote Control Specifications

- **Frequency**: Industrial, Scientific, and Medical (ISM) frequency band (2.400 GHz–2.4835 GHz) based on Direct Sequence Spread Spectrum (DSSS) technique
- **Channels**: 10, 30, 50, 70 (selectable via software)
- **Power**: 7 levels: 15, 13 (default), 10, 6, -1, -6, -10, -14 dBm ERP
- **Compliance**: It is intended for systems compliant with world-wide regulations covered by ETSI EN 301 489-1 V1.4.1, ETSI EN 300 328-1 V.1.3.1 (European Countries); FCC CFR 47 Part 15 (USA and Industry Canada); ARIB STD-T66 (Japan)
- **Controls**: Left/right: decrease / increase volume (-80, -75, -70... -30, -25, -20, -19, -18, -17... -3, -2, -1, 0 dB), up/down: change/select file, central OK button: source toggle on/off, ON/OFF Switch
- **LED Indicator**: green flashing: in range, stopped, green fixed: in range, playing, red fixed: out of radio range

### Ordering Information

- **BAS002-U**: 90 - 132.5 VAC, 55 - 65 Hz
- **BAS002-E**: 190 - 265 VAC, 45 - 55 Hz

### Standard Accessories

- Flight Case for Amplifier
- Power Cord
- USB Key with Signal Sources
- Remote Control w/ Antenna

### Optional Accessories

- TRP023 - Heavy Duty Loudspeaker Tripod
- BAS001 - Omnidirectional Speaker
- BAS003 - Directional Speaker
- CBL180 - 831 AC out to BAS002 Analog In, 6 ft (2m)
- CBL181 - BNC M/M 50 ft (15.2m) extension cable, for use with CBL180
- CBL182 - Speak-on Extension Cable, 50 ft (15.2m)

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For environmental noise monitoring and building acoustics, Larson Davis offers a full line of instruments, accessories and software. For personal noise and vibration exposure monitoring, Larson Davis complements this with sound level meters, personal noise dosimeters, human vibration meters, audiometric calibration systems and hearing conservation programs.

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