www.bedrock-audio.com



Bedrock® SB41/SB42 SoundBox

Advanced USB controlled acoustic analyzer

The Bedrock SB41 (class 1) and SB42 (class 2) are full-featured acoustic measuring instruments that can be used as a front-end within a variety of computer-controlled measuring setups. Instead of operating the devices by hand via a touchscreen, you control and configure the SBxx remotely through our Python API or "remote display" application. This gives you the power and reliability of a class 1 or class 2 instrument, while adding flexibility through integration with your own software.

What is Bedrock?

Bedrock produces innovative acoustic measuring instruments for acousticians, audio specialists, architects, engineers and basically anybody involved in (acoustic) testing and certification.

All Bedrock products are designed and manufactured in the Netherlands, by the inventors of STIPA.

Why choose the SBxx?

The Bedrock SB41 (class 1) and SB42 (class 2) are compact, light and cost-effective acoustic measuring instruments. The devices are functionally identical to the Bedrock handheld models, but without display or internal battery. The SBxx is made to sit quietly on a desk, or on location, integrated with your software within your own architecture. Our Remote Control Python API allows you to take full control over the device.

The SBxx supports a wide variety of real-time measurement and logging modules, including SPL, RTA, STIPA, RT60 and all other methods supported by the Bedrock product line. The device communicates with a USB host running your own control software, such as a PC or raspberry Pi, accepting commands and streaming measurement data. This combines the reliability of a proven IEC-61672 compliant measuring system with the flexibility of a PC-controlled solution.

Instead of using the API, you can manually control the device from a Windows PC using our remote display application. Or you can set the SBxx in USB audio streaming mode, converting it into a high-end USB input device.

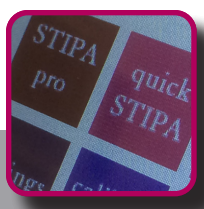
The internal 16 GB flash storage can be used to store or buffer data even when the device is temporarily disconnected from USB data.

The SBxx is ideal for acoustic consultants and engineers in need of a reliable, unattended acoustic measuring solution for long-term noise monitoring, environmental assessments or embedded applications.

Where to buy?

Bedrock products are sold through a global network of distributors and resellers. Please refer to our website for our distributor list and up-to-date information about our products, as well as available firmware upgrades, manuals and test signals.

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Easy to use. Reliable. Affordable

Bedrock® SB41/SB42 SoundBox

Product features

The Bedrock SBxx offers the following features:

- STIPA and Full STI
- Speech Level Meter (cf. 602168-16)
- SPL meter
- Real-Time Analyzer (RTA) with 1/1, 1/3, 1/6 and 1/12 octave resolution
- Reverberation time (RT60)
- Statistical acoustics
- LEQ logging
- RTA logging / spectrograms (1/1, 1/3 octave resolution)
- Environment/safety logging and monitoring
- Noise Curves (NR/NC)
- Building acoustics, airborne and impact noise: SRI/STC, Dn'T/R', LnT, Lnw/LnTw
- FFT analysis
- Oscilloscope
- AC Volt meter
- Loudspeaker polarity
- Calibrated audio recording.

More functionality to be added through free firmware updates.

Functional specifications

- 16 GB of internal storage, at least 15.8 GB available for storing measurement data
- Programmable and remotely controllable via USB
- Downloading of measurement data and firmware updating through USB
- Easy calibration procedure
- Comes standard with Type 1 / Class 1 (SB41) or Type 2 / Class 2 (SB42) measuring microphone; works with any 48 V XLR measuring microphone.

Technical specifications

Technical specifications of the SB41 include:

- Linear range of electronics (combined ranges) >110 dB
- Linear measuring range with included microphone: 30 to 128 dB.
- Type 1 / Class 1 Sound Level Measurements compliant with ANSI S1.4 and IEC-61762-1:2014.
- Frequency weightings: A,C, Z; Time averaging and integration: Fast, Slow; Equivalent Continuous (EQ); Max Hold; Peak.
- RTA filter specs exceed class 1 requirements (IEC-61260-1:2014)
- STI module fully compliant with IEC-60268-16 rev 4 (2011) and rev 5 (2020)

Technical specifications of the SB42 include:

Linear range of electronics (combined ranges) >110 dB

- Linear measuring range with included microphone: 30 to 122 dB.
- STI module fully compliant with IEC-60268-16 rev 4 (2011) and rev 5 (2020)
- Type 2 / Class 2 SPL measurements compliant with ANSI S1.4 and IEC-61762-1:2014.
- RTA filter specs exceed class 1 requirements (IEC-61260:2014)

Accessories

The SBxx comes bundled with the following accessories:

- Ruggedized carrying case
- Microphone
- USB cable
- 3 meter XLR extension cable
- Quickstart guide
- Calibration certificate
- USB flashdrive with test signals and manual
- Foam windscreen

Bedrock is a Registered Trademark of Bedrock Audio BV. For more information on Bedrock products, please refer to our websites:

www.bedrock-audio.com

For information on product pricing, finding local distributors or placing orders:

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