Bedrock® SMxx acoustic measuring instruments

An acoustic measuring device for every application and budget

The Bedrock SMxx acoustic measuring instruments (SM30, SM50, SM90) share the same basic hardware platform and have the same intuitive user interface, but are each optimized for a different set of demands and applications. The developers of the SMxx product line made sure that these instruments are extremely easy to use - yet without accepting any comprises when it comes to accuracy and reliability.

About Bedrock

Bedrock audio is an independent brand of acoustic measuring instruments that is developed and manufactured by Embedded Acoustics in the Netherlands. Embedded Acoustics is a young company (founded in 2010), built on the extensive experience of the industry veterans and researchers counted among its founders and developers.

Why choose Bedrock?

The design philosophy on which the Bedrock SMxx devices are based is simple. Our products must meet the following standards:

1. No compromises in terms of reliability and accuracy.
2. The ease of use of a smartphone.

Our pricing is transparant and highly competitive. Firmware updates are free and often add additional modules and functions to the device. You are not charged separately for individual modules; if a module is supported for a specific device model, than it is included in its purchase price.

Which model to choose?

Please consult the comparison table on the reverse side of this flyer. The Bedrock SM30 is the basic model, which comes standard with a variety of measuring modules

(class 2 SLM, RTA, FFT, RT60, scope, ...). The SM50 includes all the functions of the SM30, plus modules for speech intelligibility measurements (STIPA). The SM90 has all the features of the SM50, but complies with the strictest requirements for sound level measurements (class 1) according to IEC-61672.

Where to buy?

Please refer to our website for up-to-date list of distributors, or contact us directly if you cannot find a reseller in your region:

www.bedrock-audio.com
sales@bedrock-audio.com

Bedrock® SMxx product line

SMxx comparison chart

Hardware	SM30	SM50	SM90
Full-colour resistive touch display	•	•	•
Class 2 electret microphone & preamp (1/4")	•	•	
Class 1 microphone (1/2" UNC capsule)			•
Storage for measurement data and audio	4 GB	4 GB	8GB
Rechargeable internal 2400 mAh battery	•	•	•
Internal real-time clock and calendar	•	•	•
High-speed transfer of measurement data and re-corded audio via USB2.0	•	•	•
Including accessories (charger, cables, carrying case, windscreen, carrying cord, flashdrive with manual and test signals)	•	•	•
Modules / functions	**SM30**	**SM50**	**SM90**
Sound Level Meter (SLM), IEC-61672, ANSI S1.4	class 2 / type 2	class 2 / type 2	class 1 / type 1
Real Time Analyzer (RTA) 1/3 and 1/1 octave, IEC-61260 class 0	•	•	•
Fast Fourier Transform (FFT) frequency analysis	•	•	•
Reverberation Time (RT60), ISO-3382	•	•	•
Noise Curves (NR, NC, etc).	•	•	•
Long-term Leq logging/monitoring (e.g. LAeq15min)	•	•	•
Digital storage oscilloscope (<=20 Khz)	•	•	•
AC Volt meter for line level signals	•	•	•
Automatic level calibration procedure	•	•	•
Calibrated recording of audio on internal memory	•	•	•
Real-time calibrated USB audio device mode	•	•	•
Remote control from PC via USB (either through se-rial commands or cloning of the display)	•	•	•
Advanced intelligibility measurements (STIPA Pro), IEC-60268-16 rev. 4 / rev. 5		•	•
Basic intelligibility measurements (Quick STIPA), IEC-6128-16 rev. 4 / rev. 5		•	•
Full STI cf IEC-60268-16 rev. 5		•	•
Speech Level Meter cf. IEC-60268-16 rev. 4 annex J		•	•
Acoustic specifications	**SM30**	**SM50**	**SM90**
Linear range (with supplied microphone, dBA SPL)	24-124dB	24-124dB	20 -130dB
Linear range, electric input (dBuV)	21-132dB	21-132dB	21 -132dB
Other	**SM30**	**SM50**	**SM90**
Colors	Blue and black	Gray and black	Red and black
Warranty (worldwide pick-up & return)	24 months	24 months	24 months
Price excl. VAT (EUR).	contact us	contact us	contact us

The above comparison table applies to the SM30, SM50 and SM90 with firmware version 2.0 installed (released June 2017). Note that specifications and pricing are subject to change. New modules and functions are regularly released through firmware updates.

Embedded Acoustics is committed to sparking innovation in the fields of acoustics, speech and hearing. Our mission is to translate scientific knowledge and high-tech engineering into working, real life products and services. We're not just talk - get in touch and find out what we are all about: expertise, experience and a practical mindset.