BEDROCK ELITE



i9

BEDROCK ELITE

CLASS 1 INSTRUMENT

THE ULTIMATE ACOUSTIC MEASUREMENT TOOL FOR PROFESSIONALS

www.bedrock-elite.com

EASY TO USE. RELIABLE. AFFORDABLE.

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WHY CHOOSE BEDROCK ELITE?

At Bedrock Elite, our products are designed and built by acousticians and field engineers who use these tools daily. Our mission is to save you time by creating easy-to-use, precise instruments perfect for any acoustic measurement task. As a Bedrock Elite customer, you benefit from the features we've always wanted for ourselves, plus enhancements requested by thousands of satisfied users since 2010.

KEY BENEFITS

HIGH STANDARDS, FRIENDLY PRICES
We match the quality of top European brands at more competitive prices, our meters are manufactured in the Netherlands. (COO NL).

ALL-INCLUSIVE MODULES
All our modules, including future updates, come free of charge. No hidden fees or costly upgrades.

USER-CENTRIC DESIGN
Intuitive interfaces and robust hardware ensure reliability and ease of use in any environment.

ABOUT THE i9

The Bedrock Elite i9, our high-accuracy instrument, is engineered for versatility and precision. Its new hardware platform offers superior specifications, including a high-resolution resistive LCD touch display, enhanced battery life, and efficient power management.

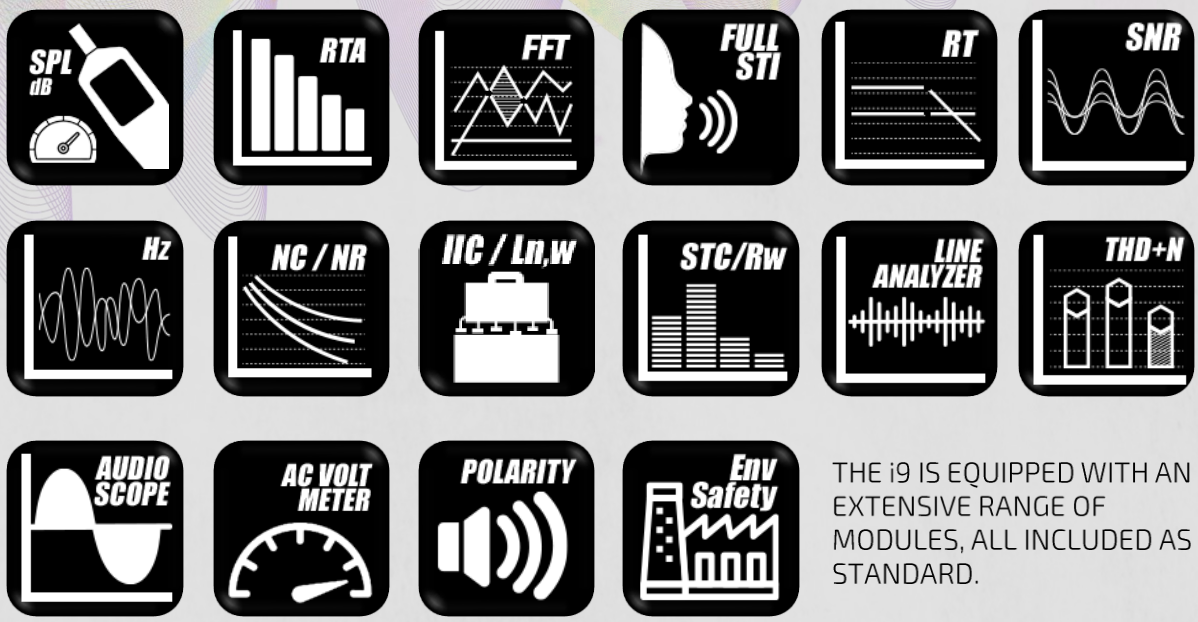
ADVANCE FEATURES

On-Device Operation
Perform complex measurements directly on the device, no PC required.

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COMPREHENSIVE MODULE LIST



THE i9 IS EQUIPPED WITH AN EXTENSIVE RANGE OF MODULES, ALL INCLUDED AS STANDARD.



FOR ACOUSTIC CONSULTANTS

- **SPL Meter** (A/C/Z, fast, slow, impulse, eq. continuous)
- **Real-Time Analyzer** (1/1, 1/3, 1/6, 1/12 octave resolution)
- **FFT Analysis**
- **Speech Intelligibility** (Full STI and STIPA)
- **Reverberation Time** (RT60)
- **Statistical Acoustics** (percentiles)
- **LEQ Logging** (A/C/Z)
- **Noise Curves** (NR/NC)
- **Sound Insulation** (R'/DnT)
- **SRI / STC**
- **Calibrated Audio Recording**



FOR PROFESSIONAL AUDIO USERS

- **Real-Time Analyzer** (1/1, 1/3, 1/6, 1/12 octave resolution)
- **Speech Level Meter**
- **FFT Analysis**
- **Oscilloscope**
- **AC Volt Meter**
- **Fundamental Frequency** (First Harmonic)
- **Loudspeaker Polarity**
- **Calibrated Audio Recording**

FOR ELECTRO-ACOUSTICS USERS

- **Oscilloscope**
- **AC Volt Meter**
- **THD+N**
- **Fundamental Frequency**
- **FFT Analysis**
- **Loudspeaker Polarity**
- **Calibrated Audio Recording**

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TECHNICAL SPECIFICATION

Standard	IEC 61672-1 Class 1, ANSI S1.4 Type 1 (SLM) IEC 62160 class 0 (RTA) ISO 3382 (RT60) IEC 60268-16 rev. 4 (STIPA / FullSTI) ISO717, ASTME413 (Rw,STC)		
Accuracy	Class1		
Measurementrange **On a typical ½" microphone sensitivity of 50mV/Pa** *Verify the lower and upper indications of the linear operating range	Full range 20 – 130 dBA 29 – 130 dBC 33 – 130 dBZ	*Low range 24 – 118 dBA 29 – 118 dBC 33 – 118 dBZ	*High range 39 – 127 dBA 41 – 127 dBC 42 – 127 dBZ
Measurementrange **High sound pressure level (SPL) measurement using the PMP20 microphone**	27 – 139 dBA 36 – 139 dBC 39 – 139 dBZ PeakC level 42 – 140 dB PeakZ level 55 – 144 dB		
Maximumpermissible Sound Pressure Level (SPL)	155 dB (Maximum electric input signal is 30 Vpp)		
Microphone	1/2" Free-field microphone IEC61094-4 WS2F designed, typical sensitivity 50mV/Pa Dynamic range >146dB (3% distortion limit) 1/4" Free-field microphone fixed (Optional)		
Microphone Preamplifier connector	XLR (48V phantom power)		
Self-noise **Electrical input signal**	15dBA 18dBC 24dBZ		
Resolution	0.1 dB		
Frequency range	20Hz –16kHz		
Sampling	48kHz, Ln(10.67ms.)		

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FUNCTIONAL SPECIFICATION

Frequency weighting	A, C and Z
Time averaging and integration	Fast, Slow, Impulse, Peak
Real-Time Analyzer (RTA)	1/1, 1/3, 1/6 and 1/12 Octave
FFT analyzer	32768 lines
General measurement LEQ sampling cycle	1s, 2s, 4s, 8s, 1m, 5m, 30m, infinity (0.1s to 999s in EnviSafety mode)
Measurement parameters	SPL, LEQ, MAX, MIN, PEAK, Ln percentile 1% 5% 10% 20% 25% 30% 40% 50% 50% 70% 80% 90% 95% and 99%
Room acoustics	RT60, T20, T30, EDT Auditorium C7, Ts, C50, D50, C80 Noise curve NR, NC, PNC, NCB, RC, RCII
Building acoustics	Rw, R'w, Dn,w, DnT,w, STC Ln,w, L'n,w, L'nT,w
Speech intelligibility	STIPA Basic, STIPA Pro, SNR
Electro-acoustics	Oscilloscope, Speaker polarity, AC voltmeter, Electric RTA dBV, dBU, dBuV, %THD+N, Hz, Pitch
Display	LCD touch screen 3.2"
Data storage	16GB internal storage
Connection	USB-C for data transfer and remote display
Recording	.csv (open with Excel tool) .wav file 48kHz
Power	NiMH battery pack 4.8V nominal, typ. 2500 mAh Typical battery lifetime >4h Max. charge current 1.8A Typical power consumption 5W
Electromagnetic compatibility	Complies with EN 61326-1:2006 FCC part 15 compliant (class A device) EMC Directives 2014/30/EU Low Voltage Directive 2014/35/EU ROHS Directive 2011/65/EU EN 61000-6-3 (2007 / A1:2011) EN 61000-6-1 (2007)
Dimension	Size approx. 210 x 85 x 55 mm (excl. microphone) Weight 530g (including microphone) Rear-mounted
Material	Body housing: ABS and Aluminum 6061-T6 display frame

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Invest Once. Measure Everything

ALL MODULES . ONE DEVICE . NO HIDDEN FEES

PURCHASE AND SUPPORT

Bedrock products are available through our global network of distributors and resellers. For the latest information on our products, firmware updates, manuals, and test signals, visit our website.

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