BEDROCK ELITE



i10

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ADVANCED CLASS 1 INSTRUMENT

THE ULTIMATE ACOUSTIC MEASUREMENT
TOOL FOR PROFESSIONALS

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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 i10

The Bedrock Elite i10, our flagship instrument, is engineered for versatility and precision. Its new hardware platform offers superior specifications, including a high-resolution capacitive touch display, enhanced battery life, and efficient power management.

WIRELESS CONNECTIVITY

Bluetooth & WiFi
Seamlessly connect to your i10 over various distances.

Headset Compatibility
Listen to measurements and record voice annotations through your headset.

ADVANCE FEATURES

Dual Input Channels
For complex measurement types.

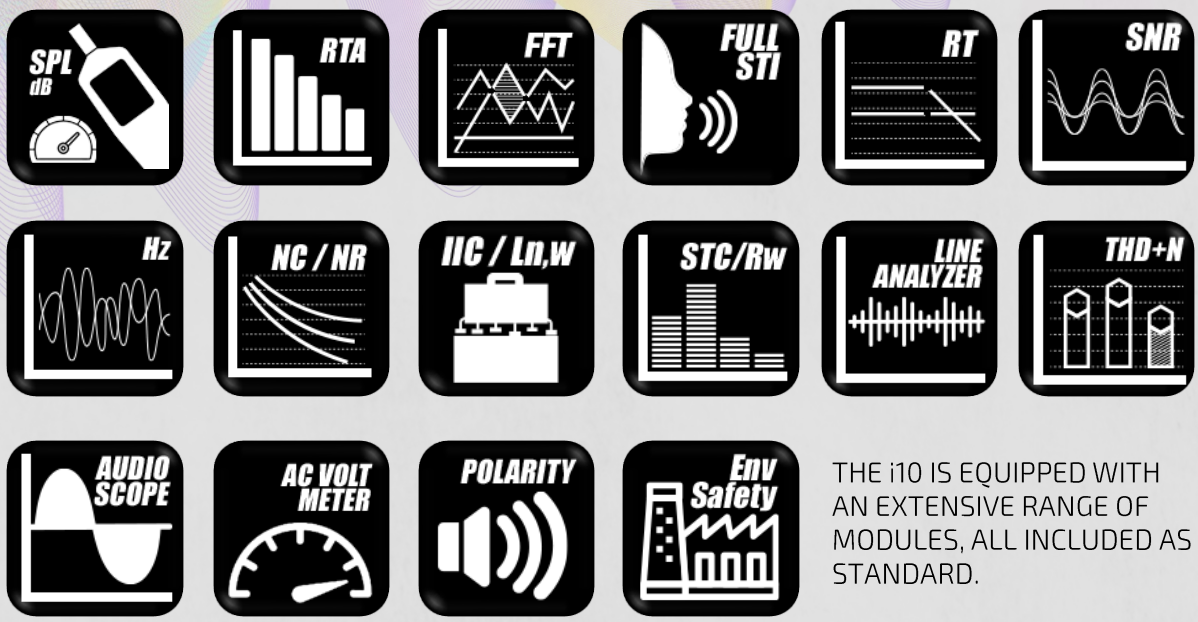
Internal Signal Generator
Ideal for STI testing and frequency transfer measurements.

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

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COMPREHENSIVE MODULE LIST



THE i10 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**
- **Built-in Signal Generator** (STI, noise, sines, sweeps)



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**
- **Built-in Signal Generator** (STI, noise, sines, sweeps)

FOR ELECTRO-ACOUSTICS USERS

- **Oscilloscope**
- **AC Volt Meter**
- **THD+N**
- **Fundamental Frequency**
- **FFT Analysis**
- **Loudspeaker Polarity**
- **Calibrated Audio Recording**
- **Built-in Signal Generator** (STI, noise, sines, sweeps)

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TECHNICAL SPECIFICATION

Standard	IEC61672-1 Class 1, ANSI S1.4 Type 1 (SLM) IEC62160 class 0 (RTA) ISO 3382 (RT60) IEC60268-16 rev. 4 (STIPA / Full STI) ISO717, ASTME413 (Rw, STC) IEC 61252 (Noise dosimeter)		
Accuracy	Class 1		
Measurement range On a typical ½" microphone sensitivity of 50mV/Pa *Verify the lower and upper indications of the linear operating range	Full range 20 – 130dBA 29 – 130dBC 33 – 130dBZ	*Low range 24 – 118dBA 24 – 118dBC 24 – 118dBZ	*High range 31 – 127dBA 31 – 127dBC 31 – 127dBZ
Measurement range High sound pressure level (SPL) measurement using the PMP20 microphone	27 – 140dBA 36 – 140dBC 39 – 140dBZ Peak C level 42 – 144 dB Peak Z level 55 – 145 dB		
Maximum permissible 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)		
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, Z and B
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)
Noise dosimeter	%Dose, OSHA, NIOSH, EU-ISO, Exchange 3, 5, and custom exchange rate
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	Capacitive touch, TFT display 800x480 pixels
Data storage	30GB internal storage and 2GB system files
Connection	USB-C for data transfer and remote display WIFI, Bluetooth
Output	TRRS jack for signal output or headset monitor (2nd input jack used to record voice annotations)
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 600g (including microphone) Rear-mounted
Material	Body housing: ABS and Aluminum 6061-T6 and ABS

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www.bedrock-elite.com

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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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