

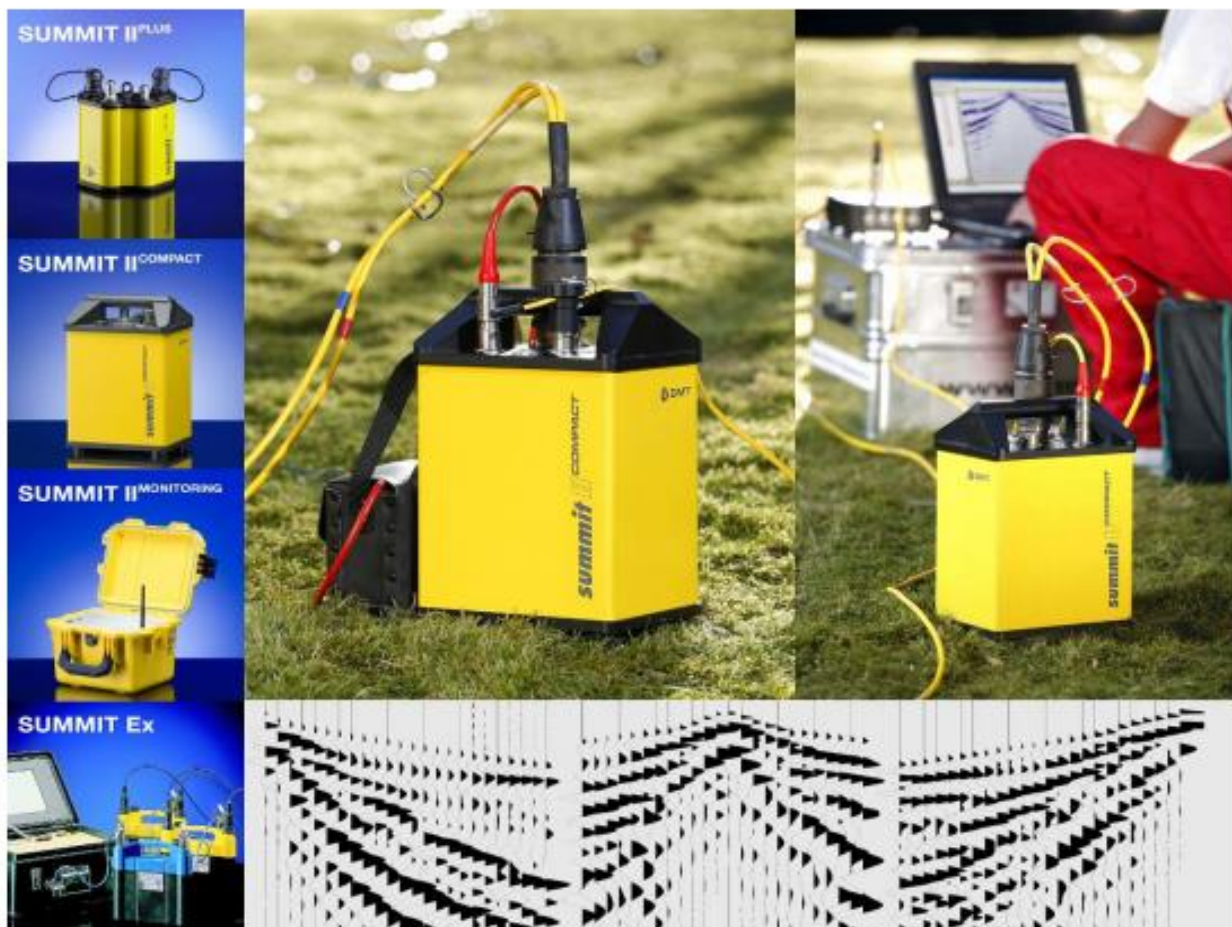
## Summit II Compact

The Seismic 'Productivity System'!

The Summit II Compact is the most productive and robust seismic acquisition system for LVL measurements, borehole tomography, and VSP surveys: The twenty-four channel box in a solid metal casing with the Summit 'Plug & Trace' technology can be used in any environment for high speed production. The seismograph works as a stand alone system or several boxes can be linked together with the 'Snap-on' line cable to comprise a multi-channel seismic acquisition system.

### Specialised for LVL and Engineering Seismics !

- Highest productivity due to its sophisticated system design
- For specialist applications such as LVL and engineering surveys
- Extremely robust, lightweight metal casing
- Supreme service via rapid reaction support hotline



## Technical Specifications

Sample Interval	1/48, 1/32, 1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8 ms	Analogue Anti-Alias Filter	7.2 kHz 6 dB/octave
Record Length	0.5 K samples, ..., 120 K samples	Analogue Low-Cut Filter	1 Hz 6 dB/octave
Preamp Gain	0 dB, 20 dB or 40 dB	Digital Anti-Alias Filter	0.8 x Nyquist
A/D Converter	24 bit delta sigma technology	Rejection at Nyquist Frequencies	-120 dB
Maximum Input Signal	2.0 Volt RMS 5.6 Volt peak to peak	Passband Ripple	+/- 0.05 dB
Input Impedance	20 kOhm	Built-In Test Functions	- Sine wave - Pulse - Instrument noise - Geophone step - Sweep transfer - Auto correlation - Cross correlation
Instantaneous Dynamic Range	≥ 120 dB @ 2 ms sampling interval	System Check	- Battery status - Equivalent input noise - Total harmonic distortion - Instantaneous dynamic range - Common mode rejection - Cross talk - Time accuracy
Equivalent Input Noise	Less than 0.3 µV RMS @ 2 ms sampling interval and 40 dB preamp gain	Geophone Check	- Impedance - Damping - Natural frequency - Noise - Leakage
Crosstalk	≥ 112 dB (between channels)		
Total Harmonic Distortion	≤ 0.0008 %		
Common Mode Rejection Ratio	≥ 100 dB		
Gain Accuracy	Typical 1 % (between all channels)		
Time Accuracy	Typical 5 ppm (between all channels)		
Power Supply	+ 9 - 18 VDC @ 0.2 W / channel		
Dimensions	20.0 x 15.0 x 29.0 cm		
Weight	4.9 kg		

Subject to technical changes

## Environmental Specifications

Operation Temperature	-30°C to + 70°C
Humidity Range	0 – 95 %
Case	Solid waterproof metal housing deployable in any surface environment

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## Overall System Performance and Flexibility

### Typical Shot Cycling Time

- 10 seconds @ 1 ms sampling rate
- 2 K trace length with 256 channels inclusive data storage; reduced by using multiple USB

### Mobile System Control

- via easy to handle standard PC / Laptop

### Cables

- Simple low cost two-conductor wire for Snap-on technology or alternatively configured four wire round cable

### Connectors

- 55 pin plug input connector
- Snap-on connector or four-wired round cable
- USB 2.0