

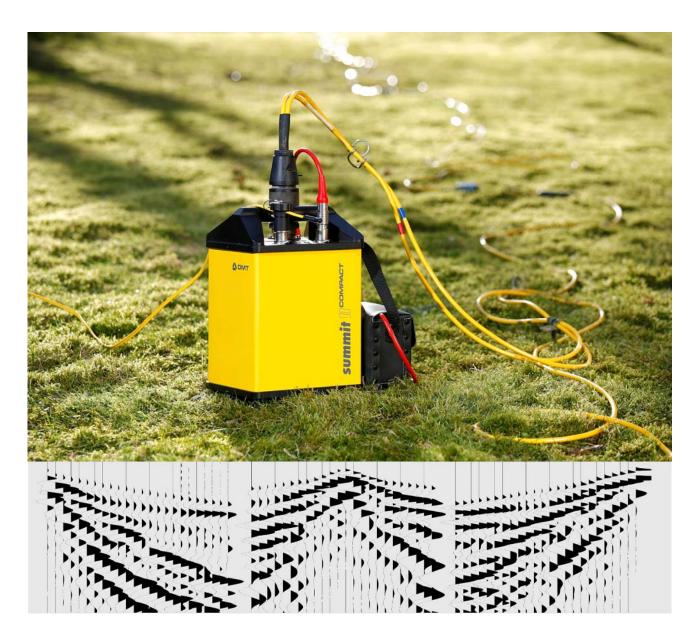
SUMMIT II Compact HS

The ultra high resolution seismic Data Acquisition System !

The SUMMIT II Compact HS is the most productive and robust seismic system for high speed and ultra high resolution data acquisition. 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 applications requiring high sampling rate data acquisition

- Highest productivity due to its sophisticated system design
- Extremely robust, lightweight metal casing
- Supreme service via rapid reaction support hotline



Technical Specifications

Sampling Rate	125 Hz up to 192 KHz
Record Length	0.5 K samples,, 120 K samples
Preamp Gain	0 dB, 20 dB or 40 dB
A/D Converter	24 bit delta sigma technology
Maximum Input Signal	2.0 Volt RMS 5.6 Volt peak to peak
Input Impedance	20 kOhm
Instantaneous Dynamic Range	≥ 120 dB @ 2 ms sampling interval
Equivalent Input Noise	Less than 0.2 µV RMS @ 2 ms sampling interval and 40 dB preamp gain
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

Analogue Low-Cut Filter	1 Hz 6 dB/octave
Digital Anti-Alias Filter	0.8 x Nyquist
Rejection at Nyquist Frequencies	-120 dB
Passband Ripple	+/- 0.05 dB
Built-In Test Functions	 Sine wave Pulse Instrument noise Geophone step Sweep transfer Auto correlation Cross corelation
System Check	 Battery status Equivalent input noise Total harmonic distortion Instantaneous dynamic range Common mode rejection Cross talk Time accuracy
Geophone Check	 Impedance Damping Natural frequency Noise Leakage
Subject to technical changes	

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Environmental Specifications

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

DMT GmbH & Co. KG Exploration & Geosurvey

Am Technologiepark 1 45307 Essen, Germany

Phone +49 201-172-1970 Fax +49 201-172-1971 info.summit@dmt.de www.summit-system.de

Member of TÜV NORD Group



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