



summitX^{ONE}



Snap on to a new era of **SUMMIT** seismic data acquisition technology

SUMMIT X One

Unique flexibility for seismic experts

The SUMMIT X One represents the latest generation of DMT's long-standing successful SUMMIT product line of field seismographs. Ultra small one-channel remote units linking to a lightweight SUMMIT line cable via the new optimized SUMMIT SNAP-ON technology result in the world's most flexible wired seismic acquisition system.

As the remote units can snap onto the line at any desired position, the SUMMIT X One provides an optimal solution for high resolution 2D and 3D seismic surveys also in challenging terrain. Any receiver spacing ranging from some tens of meters down to one meter can be realized with the same set of equipment.

Reliable and fast data transfer offers immediate and full quality control of acquired seismic data. The option of continuous data streaming also enables passive seismic applications such as monitoring of reservoir stimulation measures.

All in all, the SUMMIT X One combines the flexibility in field deployment of a wireless system with all the benefits of reliable online data access from a cabled system.



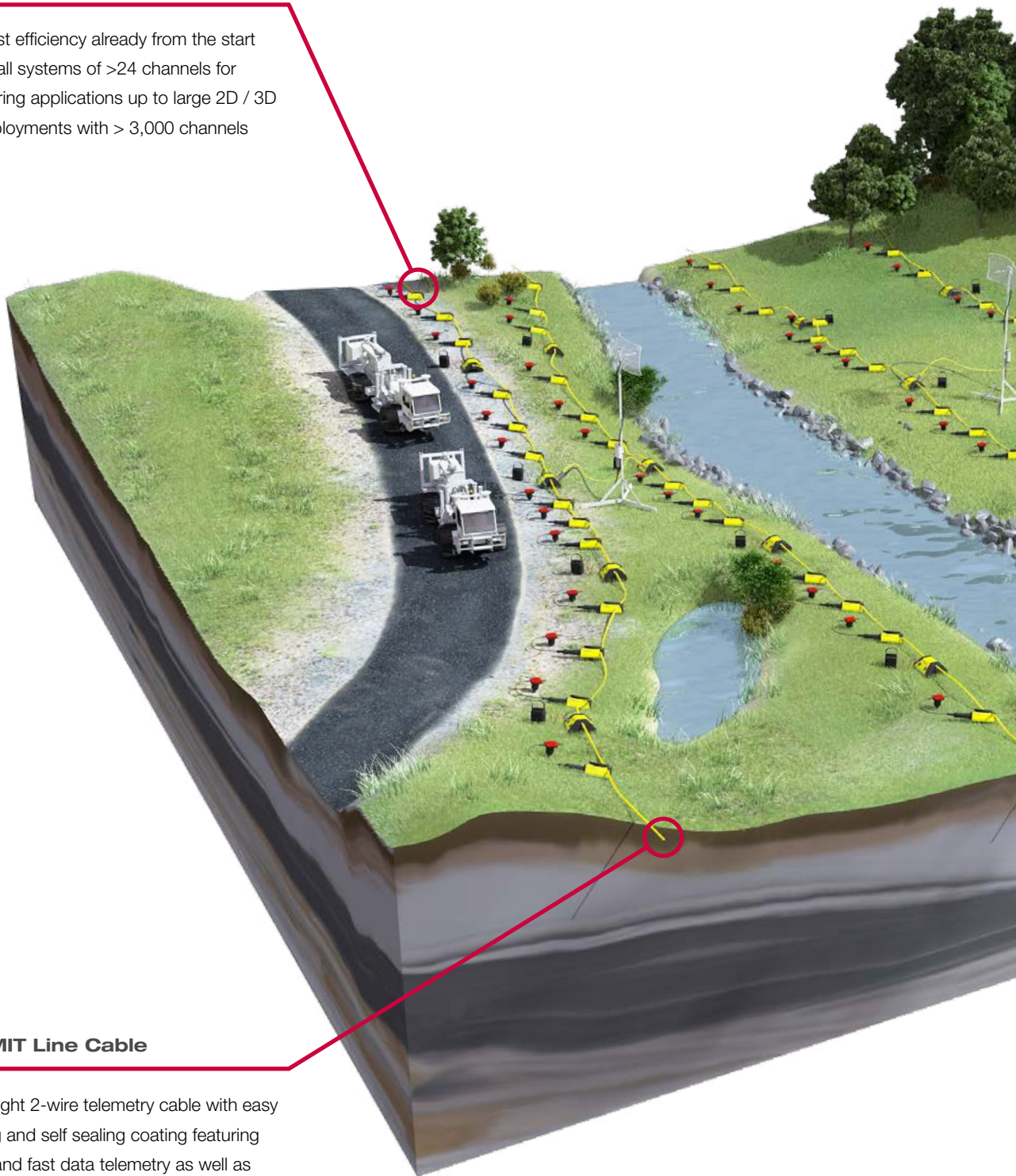
Application Areas

- Mining exploration
 - Detailed high resolution seismic exploration of deposit (2D/3D)
 - In-mine exploration
- Geothermal & Hydrocarbon
 - Detailed high resolution reservoir exploration (2D / 3D)
 - Monitoring of reservoir stimulation (frac monitoring)
- Infrastructure & Environmental
 - Near surface structural mapping (reflection & refraction seismic)
 - Seismic tomography measurements
 - MASW & ReMi applications

Overview of Key Features

Scalable System

High cost efficiency already from the start with small systems of >24 channels for engineering applications up to large 2D / 3D field deployments with > 3,000 channels

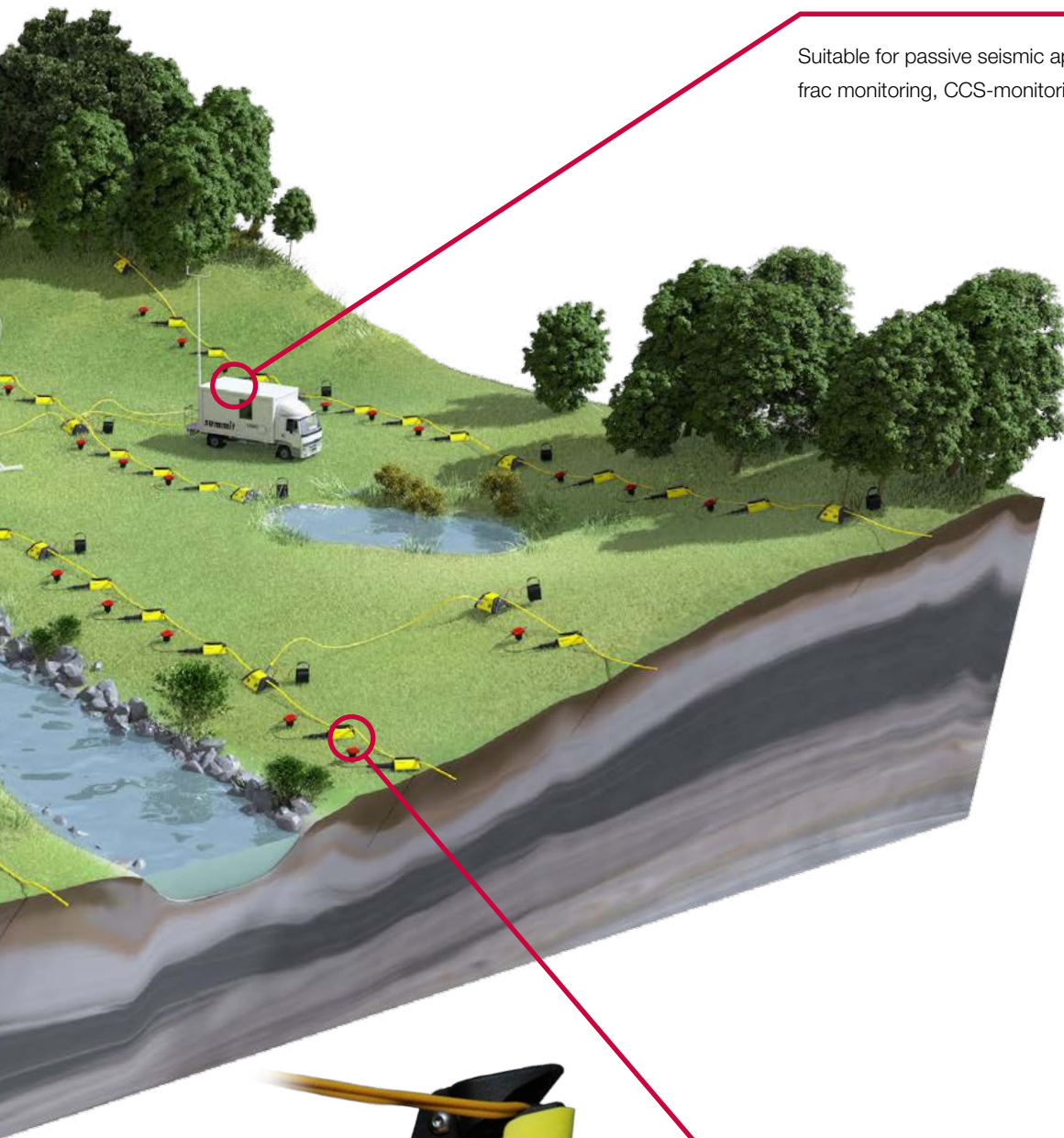


SUMMIT Line Cable

Lightweight 2-wire telemetry cable with easy handling and self sealing coating featuring secure and fast data telemetry as well as power distribution to remote units

Option for Continuous Recording

Suitable for passive seismic applications (e.g. frac monitoring, CCS-monitoring etc.)



Snap-On Technology

Connecting remote units at any desired position to the SUMMIT line cable provides outstanding flexibility for field deployment. The same system hardware can be used to realise totally different field configurations.



Technical Data

■ Digitizer

A/D Converter	24 Bit
Sample interval	1/16, 1/8, 1/4, 1/2, 1, 2, 4, 8 ms
Record length	0.5 kSample up to continuous recording
Record length	0.5 kSample up to continuous recording
Instantaneous dynamic range	> 128 dB @ 2 ms sampling interval
System dynamic range	> 144 dB
Pass band	1 Hz (0 Hz) to 0.95 x Nyquist

■ Test functions

System Check (automatic at start up)	Instrument noise Instantaneous dynamic range Total harmonic distortion Common mode rejection Battery status
---	---

Additional test functions	Sine wave Pulse Geophone step test Instrument noise
---------------------------	--

■ Power supply

Power supply data collector unit	12 or 24 V DC standard batteries
Power supply remote unit	48 V DC provided through line cable from data collector unit

■ Environmental specifications

Operation temperature	-25 °C to +60 °C
Humidity range	0 - 100 %
Case	Solid waterproof housing deployable in any surface environment



www.summit-system.de

DMT GmbH & Co. KG
Geomesssysteme / Geoinstruments

Am Technologiepark 1
45307 Essen, Germany

Phone +49 201 172 1970
Fax +49 201 172 1693

www.dmt-group.com

TÜV NORD GROUP

