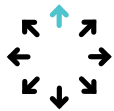




Subsurface Mapping GPR **GM8000**

Modular multichannel GPR mobile mapping system for the subsurface



Versatility

Interchangeable GPR arrays for near surface and deep detection to scale your solution easily and approach new applications.



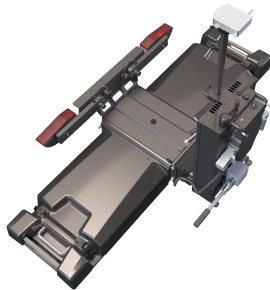
Accuracy

The highest density of information in all three dimensions, accurately mapped even in challenging conditions.



Efficiency

Easy to set up, operate, and get insights from. Data collection at high speed and direct path into the office.



Instrument Tech Specs

Radar technology	Stepped-frequency GPR
Modulated frequency range	500 – 3000 MHz ² 30 – 750 MHz ³
Number of channels	71 (VV) + 31 (HH) ² 23 (VV) ³
Channel spacing	2.5 cm (VV), 5.5 cm (HH) ² 7.5 cm ³
Scan width	1.75 m ² 1.67 m ³
Scan rate	27500 scans/s ² 22000 scans/s ³
Time window	35 ns ² 100 ns ³
Acquisition speed	Up to 80 Km/h ^{2 4} Up to 180 Km/h ^{3 5}
Spatial interval	Up to 100 scans/m
Dimensions	414 x 533 x 757 mm + 591 x 630 x 957 mm
Weight	81 Kg ²
Odometry	Doppler radar or wheel speed sensor
Ingress protection (IP) / sealing	IP65
Towing system	Rear hitch, 50 mm ball
Shock absorption system	Hydraulic
Power supply	Power-over-Ethernet / External 12V
Operating temperature	-10° to 50°C 14° to 122° F
Operating humidity	<95% RH, non-condensing
Connectivity	USB-C, USB-A, 2x Ethernet + Power, 2x Lemo ⁶ , 2x ODU Antenna connector, Universal I/O (UART, CAN-Bus)
GNSS satellites	Multiband GPS + Glonass + Galileo + Beidou
GNSS real-time corrections	SSR augmentation / NRTK-compatible ⁷
GNSS real-time 3D accuracy	Typ. 1 - 5 cm 0.5 - 2 in ⁸
GNSS initialization time	Typ. 5 - 30 s
Sensor fusion	GNSS + IMU + Camera imaging + Wheel speed
Feature tracking	Yes

1. Running an up-to-date iOS version; recommended models: MacBook Pro® 2022 model or superior

2. In combination with 2x GX1 array modules

3. In combination with 2x GX2 array modules

4. At 100mm spacing



5. At 50mm spacing

6. For terrestrial positioning systems, an intermediate serial adapter to DB9 might be needed to output Pseudo NMEA GGA positions

7. Needs an active Internet connection on the iPad; NTRIP corrections in RTCM3 format

8. The achieved accuracy is subject to atmospheric conditions, satellite geometry, observation time, etc.

Our Accessories

Image	PartNumber	Description
	GX1	
	GX2	

Standards & Guidelines	Description
AS 5488-2013 (Australia)	
NF_S70-003 (France)	
UNI/PdR 26.01:2017 (Italy)	
ASCE 38-02 (United States)	
CSA S250 (Canada)	
HSG47 (United Kingdom)	
PAS128 (United Kingdom)	
ASTM D6432-11	
NCHRP Synesis 255	
SHRP H-672	
SHRP S-300	
SHRP S-325	

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