



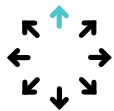
## Subsurface Mapping GPR

# GM8000

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Modular multichannel GPR mobile mapping system for the subsurface

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### Versatility

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



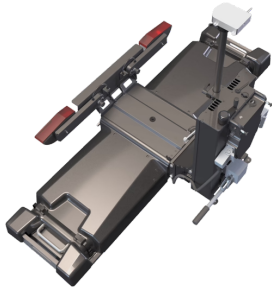
### Accuracy

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

<b>Radar technology</b>	Stepped-frequency GPR
<b>Modulated frequency range</b>	500 – 3000 MHz <sup>2</sup>   30 – 750 MHz <sup>3</sup>
<b>Number of channels</b>	71 (VV) + 31 (HH) <sup>2</sup>   23 (VV) <sup>3</sup>
<b>Channel spacing</b>	2.5 cm (VV), 5.5 cm (HH) <sup>2</sup>   7.5 cm <sup>3</sup>
<b>Scan width</b>	1.75 m <sup>2</sup>   1.67 m <sup>3</sup>
<b>Scan rate</b>	27500 scans/s <sup>2</sup>   22000 scans/s <sup>3</sup>
<b>Time window</b>	35 ns <sup>2</sup>   100 ns <sup>3</sup>
<b>Acquisition speed</b>	Up to 80 Km/h <sup>2</sup> <sup>4</sup>   Up to 180 Km/h <sup>3</sup> <sup>5</sup>
<b>Spatial interval</b>	Up to 100 scans/m
<b>Dimensions</b>	414 x 533 x 757 mm + 591 x 630 x 957 mm
<b>Weight</b>	81 Kg <sup>2</sup>
<b>Odometry</b>	Doppler radar or wheel speed sensor
<b>Ingress protection (IP) / sealing</b>	IP65
<b>Towing system</b>	Rear hitch, 50 mm ball
<b>Shock absorption system</b>	Hydraulic
<b>Power supply</b>	Power-over-Ethernet / External 12V
<b>Operating temperature</b>	-10° to 50°C   14° to 122° F
<b>Operating humidity</b>	<95% RH, non-condensing
<b>Connectivity</b>	USB-C, USB-A, 2x Ethernet + Power, 2x Lemo <sup>6</sup> , 2x ODU Antenna connector, Universal I/O (UART, CAN-Bus)
<b>GNSS satellites</b>	Multiband GPS + Glonass + Galileo + Beidou
<b>GNSS real-time corrections</b>	SSR augmentation / NRTK-compatible <sup>7</sup>
<b>GNSS real-time 3D accuracy</b>	Typ. 1 - 5 cm   0.5 - 2 in <sup>8</sup>
<b>GNSS initialization time</b>	Typ. 5 - 30 s
<b>Sensor fusion</b>	GNSS + IMU + Camera imaging + Wheel speed
<b>Feature tracking</b>	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
	393670260	
	39367250	

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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