Proceq Ground Penetrating Radars

GP8100

Highly productive portable concrete GPR array, enabling quick object detection and superior data collection

Productivity

Boost scanning efficiency with 25cm effective scan width and 80cm penetration depth, one scan is equivalent to 6 classical line scans

Visualization

Detecting objects of all sizes and marking on concrete surfaces has never been so easy and fast with the superline scan view

Density

The high scan rate of 1'200 scans/s enables a very dense GPR data collection in only one superline scan, which can be visualized in 6 classical line scans

Proceq GPR App
Tech Specs

Measurement modes	Superline Scan (1000m / 3281 ft) Area Scan (with Flexible Grid up to 100m2 / 1076 ft2)
Review modes	Superline scan[1] A-scan (incl. envelope) Migrated view Non-migrated view Split view[1] Time-Slice view[2] Basic 3D view AR
Advanced visualization	Time-Slice view Pro 3D view Augmented Reality (AR)
Reporting	Workspace integration Automatic Logbook SEG-Y export Instant report generation Share via URL
Export formats	JPG PNG CSV SEGY HTML
Display Unit Specs*	Latest Apple® iPad recommended (iPad with iOS 11.0 and higher) Screen size: From 7.9" to 12.9" Resolution: Up to 2732-by-2048 Memory: Up to 2TB Weight: Down to 301 g / 10.6 oz Camera: Up to 12MP Wide and 10MP Ultra Wide Optional: USB-C, 5G, Face ID
Display Unit Sensors*	LiDAR Scanner (optional) Three-axis gyro Accelerometer Ambient light sensor Barometer Built-in GPS/GNSS

1. GP8100 only, 2. GP8000 & GP8100 only

* Depending on iPad model

Instrument
Tech Specs

Radar technology	Stepped-frequency continuous-wave (SFCW) GPR
Modulated frequency range	400 – 4000 MHz
Penetration depth	80 cm / 31.5 in
Battery	Flight-safe, removable pack, 8x AA (NiMH)
Dimensions	41.5 x 22.5 x 13.2 cm 16.3 x 8.9 x 5.2 in
Weight	3.0 kg / 6.6 lbs (excl. battery pack)
Ground clearance	0.8 cm / 0.32 in
Antennas	6
Antenna distance to edge	8.3 cm / 3.27 in
Special features	All-wheel drive with high-traction wheels and laser light guidance USB-C tethering to power bank
Connections	Wi-Fi (802.11n) to display unit USB-C for Wi-Fi restricted areas
Autonomy	3h (Up to 8 hours with off-the-shelf 10'000 mAh power bank, not included)

Our Accessories

Image	PartNumber	Description
	79330235	Universal tablet holder for direct mounting on Proceq GPR 8000/8100 and Pundit PD8050
	39380010	Telescopic rod kit for Proceq GPR instruments including the universal tablet holder UTH100 Compatible with GP8000, GP8100 and GP8800...
	79330345	Chest harness kit for hands free operation of all iPad app based instruments: GP8000, GP8100, GP8800, PD8050, PM8000, PI8000...
	39222010	Telescopic rod kit for Profometer PM8000 instruments including the universal tablet holder UTH100

Standards & Guidelines	Description
ACI 228.2R.98	
ASTM D4748-10	
ASTM D6087-08	
ASTM D6432-11	
EN 302066 - ETSI	
NCHRP Synesis 255	
SHRP H-672	
SHRP S-300	
SHRP S-325	

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