US Radar Quantum Imager

Three frequencies for comparing subsurface images



Quantum Imager records three datasets in one pass using independent transmit paths with central frequencies of 250, 500 and 1000 MHz. The operator can compare responses across bands, rather than assess a target using a single frequency profile. The system combines Stepped Ultra Wideband technology with Direct RF Sampling, a field cart and software for viewing survey data and marking interpreted targets.

Configuration and offer scope

The Quantum Imager offer includes GPR with a rugged field tablet controller and two interchangeable power packs. Tablet model, chargers, licences and additional positioning are selected in the quotation.

Configuration and price on request

Original adaptation and translation: geoscanners.pl. Based on US Radar materials.

Photos and technical data: US Radar.

Technical specifications

US Radar Quantum Imager

Transmit arrangement	3 independent wideband transmitters
Central frequencies	250 MHz, 500 MHz and 1000 MHz
Total frequency range in the brochure	163.5-1751.0 MHz
Channel acquisition	Simultaneous acquisition of three datasets
Channel display	Three, two or one channel displayed; all three recorded
Technology	Stepped Ultra Wideband and Direct RF Sampling
Signal stacking	Automatic cascaded stacking: hardware and software
Pulse repetition frequency	Typically 500 kHz; subject to regional requirements, 500-667 kHz in the brochure
Power packs	Hot-swappable; approx. 8 h per pack according to the manufacturer, depending on conditions
Wheels and transport	Solid tyres; folding handle and tablet mount
GPS positioning	Optional integration and external receiver mount
Acquisition software	US Radar Acquisition Software; manufacturer specifies Premium for Quantum Imager
Further data processing	Radar Studio, mapping and 3D functions depending on the package selected
Compliance in the original brochure	FCC and CE

Actual range and data quality depend on the medium properties, moisture, target size and orientation, and survey method. Results require interpretation and comparison with available documentation.

Prepared using the manufacturer documentation.

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