

GV7

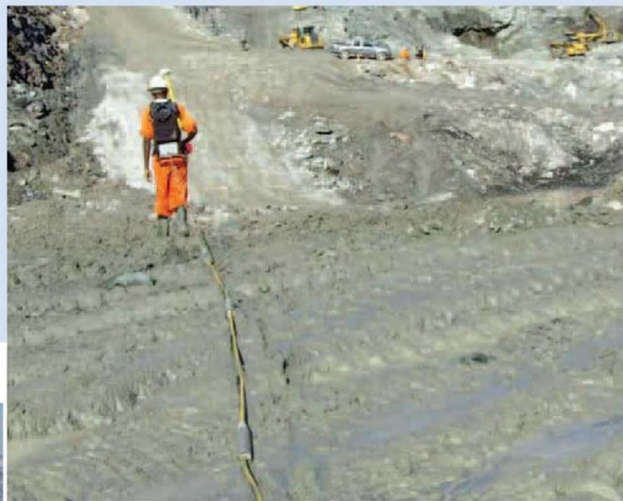


UTSI ELECTRONICS LTD

Deep Investigations

The GV7 is an Inline towed antenna specifically designed for mapping of deep sub-surface anomalies in harsh environments.

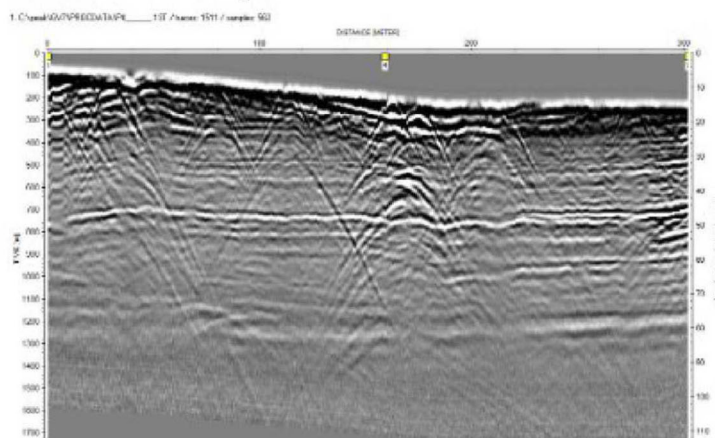
When undertaking a simple common offset reflection survey, the system can be triggered to sample at specific time intervals. positions from an external GPS may also be recorded.



The GV7 transmitter & receiver are not joined by a reference cable, the receiver automatically synchronises to the transmitter pulse repetition rate. Having no reference cable means performing CMP and WARR velocity calibrations become effortless. WARR records can be acquired by one operator in seconds by simply detaching the transmitter from the receiver and pulling the receiver away from the transmitter at a steady pace.

Please Note.

The GV7 is a low frequency device and uses unshielded antenna. National or local restrictions may prohibit its use without appropriate permissions from the relevant communications regulator.



GV7



Technical Specification

Specification	40MHz	80MHz
Transmitter		
Output voltage	100v	
Pulse Width	25ns	12ns
Centre Frequency	40MHz	80MHz
Transmitted spectrum	10MHz - 80MHz	40MHz - 160MHz
Repetition rate (PRF)	156KHz	
Antenna Gain	-12dBd	
Peak ERP	9dBW	
Peak RF to Antenna	21dBW	
Mean ERP	-17dBW	
Unit Dimensions (when separated)	70mm x 420mm (Tx) + Antenna	
Power	Internal 6Ah Li-Ion, (approx.15 hours Tx use)	
Weight	5Kg	4Kg
Receiver		
A/D conversion	15dB Pre-amp + 14bit ADC	
Frequency response	10MHz - 80MHz	40MHz - 160MHz
Samples per trace	256	
Timesweep	1600ns	800ns
Scan Rate	11Hz (approx. 10cm at normal walking pace)	
Stacking	7000 traces 24 bits	
Unit Dimensions (when separated)	70mm x 420mm (Rx) + Antenna	
Power	Internal 6Ah Li-Ion, (approx.20 hours Rx use)	
Weight	5Kg	4Kg
System		
Antenna type	Resistively loaded wire dipoles, Inline, Impulse	
Communication	Wifi and Bluetooth	
Data format	Utsi Electronics (.hrd)	
IP rating	IP 67	
Performance maximum (Dry soil)		
Depth range	80m	50m
Resolution	0.5m	0.3m
Maximum Antenna Separation	120m	75m

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