ImpulseRadar Raptor-80

ANTENNA	
Technology	ImpulseRadar real-time sampling
Antenna type	Raptor
Centre frequency	800 MHz
Signal to noise ratio (SNR)	>100 dB
Significant/useful number of bits	>16 bit
Scans/second	>800
Survey speed	> 70 km/h @ 5 cm point interval
Data acquisition rate	160 MHz
Time window	125 ns (24-channels)
Bandwidth	>120%, fractional, -10 dB
Acquisition mode	Wheel, time or manual
Positioning	Wheel encoder, internal GPS, external GPS, Total-station
GPS support	Integrated support for GPS (int./ext.), NMEA 0183 protocol
Data time-tagging	To 1ms of \GPS-time
Power supply	12 V Li-Ion rechargeable battery, or ext. 12 V DC source
Power consumption	0.5 A per channel
Operating time	7 hours (12-channel with 50 Ah battery)
Dimensions	150 x 110 x 90 mm (Antenna only)
Weight	1 kg (Antenna only)
Operating temperature	-20° to +50°C
Environmental	IP65
Regulatory certification	CE, FCC, IC

USER INTERFACE	Laptop PC (min. requirements)
Display	10" backlit, sun-readable
Operating system	Windows 7 or later
Processor	>1 GHz, 64-bit (x64)
Memory	>4 GB RAM (64-bit)
Storage	>20 GB (64-bit)
Graphics	DirectX 9 graphics device with > WDDM 1.0 driver
Communications interface	Ethernet 1 GB
Recommendation	*Panasonic Tough Book FZ G1 (or equivalent)*

CARRIER SOLUTIONS	Cart (up to 12-channels)	Vehicle (up to 26-channels)
Dimensions (when in use)		180 x 83 x 57 cm
Dimensions in-folded		
4-wheel solution	92 x 102 x 45 cm	
3-wheel solution	92 x 90 x 45 cm	
Scan width (swathe)	60 cm	140 cm
Total weight with carrier	50 kg	79 kg

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SOFTWARE	
Talon-2 **3D Data Acquisition software**	- Quick and easy configuration and start-up - Positioning configuration and device sync monitoring - Visualization of radargram for each channel - Data merge, storage and export
Condor 3D **GPR Processing & Interpretation Software**	- OspreyView (application of a novel method of visualizing 3D-GPR data) - Effective workflows - Efficient sub-surface imaging

ImpulseRadar products are under continuous development and we reserve the right to change specifications at any time and without prior notice. You may verify product specifications at any time by contacting our headquarters using the details listed below.