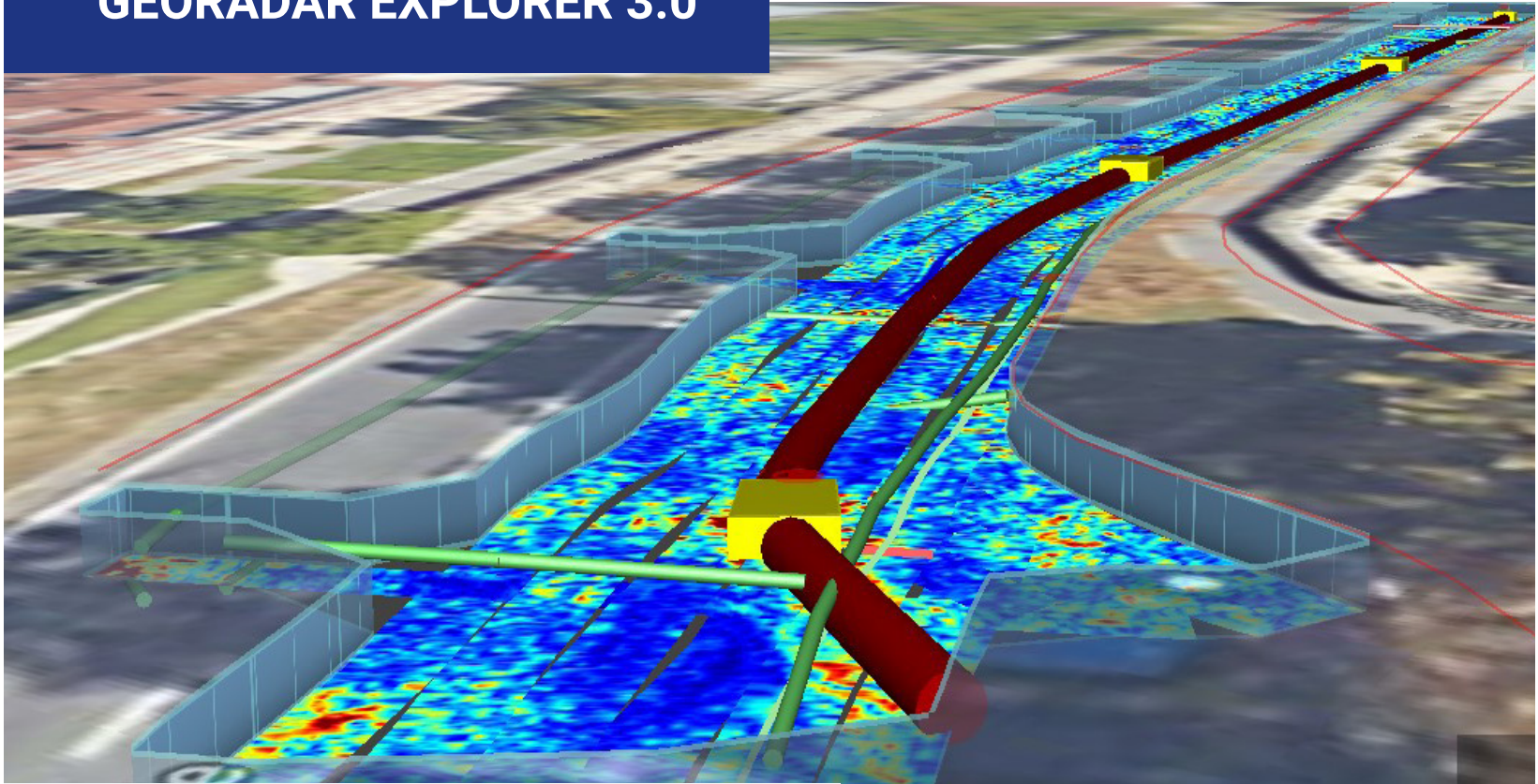


# GEORADAR EXPLORER 3.0



Tesmec Georadar Explorer 3.0 is a Ground Probing Radar - GPR - which detects underground utilities, optimizing trenching and laying operations.

This system has been developed to guarantee the safety of trenching work sites and to increase operational speed, avoiding utilities strike incidents. Utilizing Explorer 3.0 reduces risks and costs by providing non destructive surveying to locate underground networks.

The 3.0 system has been reduced in size, making it easier and more practical. The new side systems lock and stabilize the antenna during acquisition, facilitating its movement. All the electronics, including the Control Unit (DAD), are inside the antenna box, which has been reduced in size and weight. The new lithium batteries, reduced in size and weight, replace the previous lead - acid batteries and guarantee a longer service life.

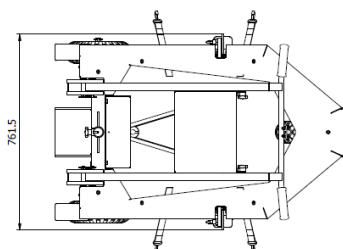
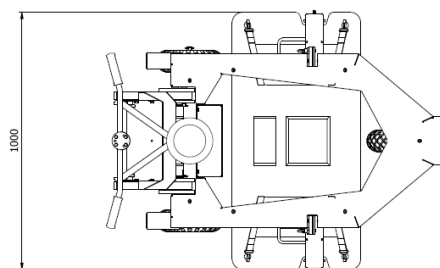
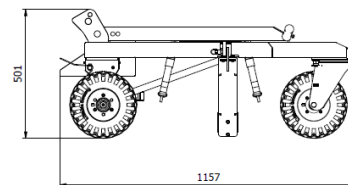
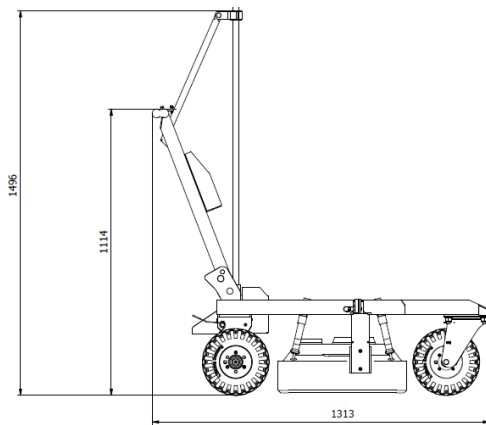
## TECHNICAL DETAILS

- Reconstruction of any kind of underground networks
- Detection depth: up to - 4,0 m
- Automatic Georeferenced data
- User friendly data acquisition software
- Two configurations: vehicle pulled "mobile" and hand pushed "trolley"
- Trolley configuration acquisition speed: 4.000-5.000 sqm/day
- Mobile configuration acquisition speed: 15.000-20.000 sqm/day



SYSTEM SPECIFICATIONS	METRIC	US
Sensor frequency	600 MHz	
Weight	42 KG	92 pounds
Scan width	82.5 cm	32"
Number of channel	30 (19VV - 11HH)	
VV channels spacing	4.3 cm	1.7"
HH channels spacing	7.5 cm	2.9"
Power consumption	120 L	31.7 gal
Acquisition	19 W	
Stand-by	15 W	
Max operating time	8H (can be extended)	
Environmental	IP65	
Max. acquisition speed	14 km/h	8.7 mph
Positioning	Integrated Encorder and PPS	
	External GPS and TPS	
Certification	EC, FCC, IC	
Recommended laptop	PANASONIC FZ62	
Temperature range	-20 C° / 50 C°	- 4° F / 122° F
Scan step resolution	4 cm	1.5 "

SOFTWARE SPECIFICATIONS
<b>Umap - Acquisition software</b>
Automatic calibration for an easy and quick start-up
Visualization and storage of antenna array data set (30 channels)
Visualization of radar tomography (time slices)
Connection with NMEA positioning device
Multilanguage support
Metric and imperial units
<b>IQMaps - Processing software</b>
Automatic calibration for an easy and quick start-up



Pictures & drawings can be different according to technical specifications - Updating programme variations without notice are possible