



EXPLORER_{2.0}

LOCATE UNDERGROUND INFRASTRUCTURE IN AN EASIER, FASTER AND SAFER WAY THAN BEFORE!

Tesmec is proud to introduce **Explorer 2.0**, the brand new Tesmec **Ground Penetrating Radar (GPR)** developed for the detection of buried utilities.

The GPR helps in designing a saw cut path that avoid existing underground infrastructures and keeps operators away from the electrical and other strike hazards. The ability to determine the location of underground utilities limits the risk of having a utility strike, injury, project delay, or repair.

Utilizing GPR reduces risks and costs, and promotes a safe work environment by providing non-destructive testing for locating materials.



- NEW Multiple compact antennae array
- Real time investigations
- Transversal scans are no longer necessary
- Fundamental on footpaths.



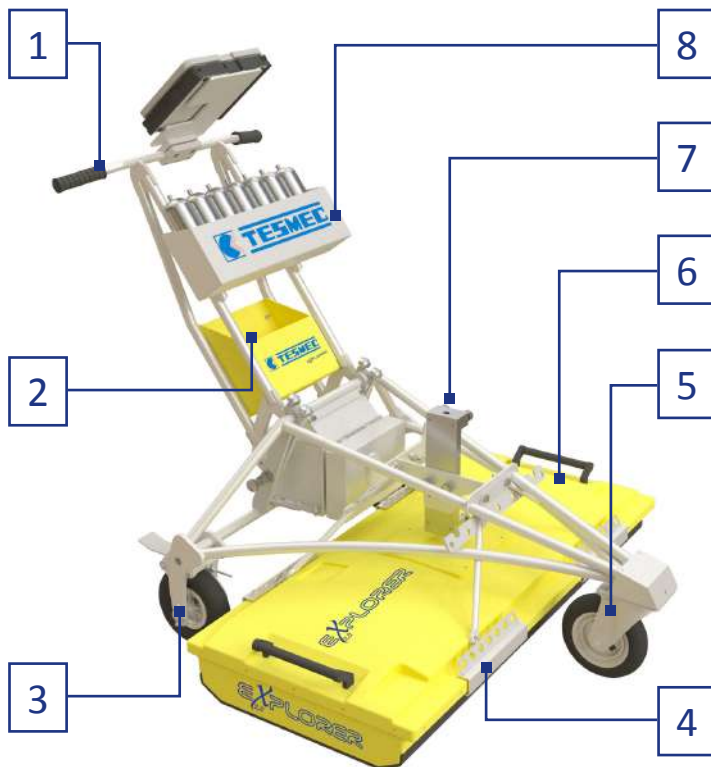
Picture 1

Energy cable cut due to trenching operations made without GPR preliminary survey.



Picture 2

Restoration of the infrastructure damaged during trenching operations.



NEW FEATURES!

The new Explorer 2.0 has been developed in order to give a better experience to the operator for a faster and more accurate work.

New Software

- Real time buried utilities visualization
- Reduced post-processing work
- GPS integration and Google maps
- More intuitive data display:

- **B-SCAN**
- **C-SCAN**
- **T-SCAN**

- User-friendly interface

New Hardware

- Transversal scans are no longer necessary
- Fundamental in investigations on footpaths
- Multi-antenna Array with dual polarization
- New design:



1. **ERGONOMIC HANDLEBARS**
2. **TOOLBOX**
3. **ALL-TERRAIN WHEELS WITH BRAKE**
(ON REAR WHEEL ON THE RIGHT)
4. **ANTENNA BOX PROTECTION WITH HEIGHT ADJUSTMENT SYSTEM**
5. **PIVOTING FRONT WHEEL**
6. **ONE PIECE ANTENNA BOX**
7. **GPS ATTACHMENT (GPS KIT AS OPTIONAL)**
8. **TOOLBOX FOR SPRAY CANS (AS OPTIONAL)**
9. **ERGONOMIC AND FAST CONNECTORS**
(4 HEIGHT POSITIONS SELECTABLE)
10. **WHEEL-FREE SIDE FOR INVESTIGATIONS**
NEXT TO SIDEWALKS AND OBSTACLES
11. **FOLDABLE HANDLEBARS**

TECHNICAL SPECIFICATIONS

WEIGHT

Less than **45 kg** (it depends on the battery included)

DETECTION PERFORMANCES

(according to ground's characteristics)

Maximum depth: **1500 mm**

Scan width: **1000 mm**

Max Data collection speed: **5 km/h**

DETECTED BURIED INFRASTRUCTURES

- Plastic, metallic and concrete pipes
- Electrical cables
- Fibre Optics ducts

ANTENNAE SYSTEM

The system is composed by a dense array of antennae at **600 MHz** with **dual polarization** for both transversal and longitudinal investigations.

DIMENSIONS

Max Height: **1242 mm** (Laptop included)*

Max Length: **1514 mm** (Handlebars extended)*

1114 mm (Handlebars retracted)

Max Width: **1190 mm**

* Depends on the selected position of the handlebars but not higher than the values here reported.