

# tCat - OLE Mobile Mapping

from Unipart Rail

Geometry measurement for Overhead Line Catenary systems



Reliable, low cost geometry measurement solution

Real-time, actionable information

Automatic measurement - height and stagger

Foldable design, easy to transport

**For use in the design, installation, test and maintenance of the OLE system, tCat 'OLE Mobile Mapping' provides simple, precise real-time measurement of geometric parameters within a railway environment.**

The tCat is a portable, manually propelled trolley, which provides LIDAR, laser and camera technology to survey Overhead Line and track clearances, obtaining precise real-time measurements. The analysis software and integrated processing allows automatic identification of the contact wire and automated report generation.

**The tCat workstation allows the measurement of the following parameters:**

- Height and stagger of Overhead Line Equipment
- Cant/Superelevation level
- Distance travelled
- GNSS position
- Tunnel cross section
- Clearance to poles (R.E.F.O.S.)
- Clearance to railway equipment (platforms, trenches, transformer boxes, etc.)
- Electrical clearance survey (e.g. distance requirements verification at insulated/air gap overlaps)



**Features & Benefits**

- High accuracy measurements using a variety of sensors
- Visual check of any gauge/clearance
- Creation of OLE Project documentation
- User friendly control software for report generation and analysis
- Up to 50% reduction in time when compared to traditional methods
- Portable, foldable design which can be easily transported
- Stop & Go 2D profile measurements and continuous recording apply simultaneously



For more information on the tCat, please contact [uga.enquiries@unipart.com](mailto:uga.enquiries@unipart.com)



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