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HDD-E[®] [®] [©]

CAMEROV[®] Patent 1254318

AUTOMATIC MEASUREMENT SYSTEM WITHOUT CONTACT FOR VEHICLE OR TROLLEY / RULER

NO INTERRUPTION OF RAIL TRAFFIC

STRENGTHS

HELP FOR TECHNICAL MAINTENANCE VISITS

- Overhead lines, electricity network 750 V, 1500 V, + 25 Kv tested in 30 KV, AC and DC
- Can be used in any climatic condition (rain, sun, of + 55°C in - 40°C...)
- Switches
- Insulator sections (IS)
- Severing

AUTONOMOUS & MANUAL VERSION : 1500 POINTS AND MORE

- 3 mm accuracy at 9 m high
- **Weight** : 1,9 kg
- Handling by an agent

- ▶ **Height**
- ▶ **Stagger**
- ▶ **Cant**
- ▶ **Track gauge**

Nomination for Innovation Awards Infrastructure



Approval N° DPI 15091

3 OPTIONS OF USE

- On positioning ruler simply applied on the track
- On a pushed hand trolley / ruler
- On vehicle



Trolley / ruler by -40°C



Maintenance Vehicle



Tamping Vehicle



In the past

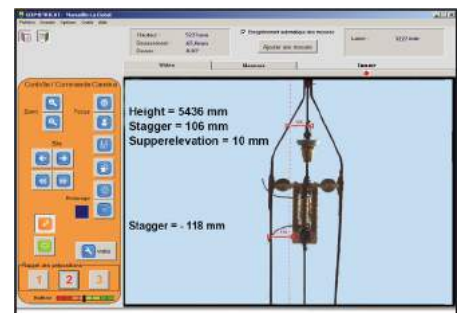
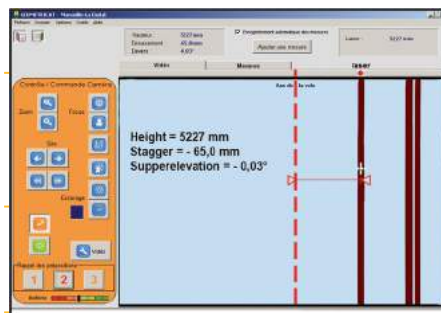


HIGHT RESOLUTION COLOR CAMERA

- **Optical zoom x 10** : Remotely controlled
- **Focus** : Remotely controlled
- **Backlighting function**
- **Resolution** : 768 x 576 pixels
- **Variable lighting for nightly operations**
- **Laser range 10 meters**
- **Battery life : autonomy 1500 measures**
- **HDD-E[®] box**
(L x W x H = 250 x 180 x 115 mm - Weight : 1,9 kg)
- **Weight Trolley / Ruler** : 15 kg

REAL-TIME MEASUREMENTS

- **DIRECT MEASUREMENTS** by selection of the contact wire by clicking on it on the screen
- **HEIGHT**
3 mm accuracy at 9 m high
- **STAGGER**
Accuracy lower than 3 mm
Range ± 400 mm, + if necessary
- **CANT** : $\pm 0,5$ mm or $\pm 0,02^\circ$
Range $\pm 8^\circ$ or ± 200 mm
- **TRACK GAUGE** : ± 1 mm



DYNAMIC MEASURES

GEOMETRICAT[®] SOFTWARE ON PC TABLET

- CAMEROV[®] HDD-E[®] control via USB
- Recording measurements with picture makings
- Publishing reports with comments from a library of predefined comments in PDF
- Excel file generation of all measurement
- Interactive report created on CD or DVD

OPTIONS

- ▶ **Additional batteries to increase CAMEROV[®] HDD-E[®] life**
- ▶ **Lateral telemeter**
- ▶ **GPS localisation**
- ▶ **Odometer** (measure of electronic or mecanical distance)

