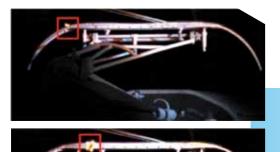
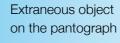
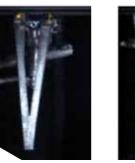
Other examples







Left pantograph horn damaged





good

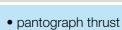
PantoCheck Measurements

• pantograph shape

• pantograph integrity

- pantograph geometry
- pantograph horns
- missing parts of carbon
- carbon strips wear
- Selectra ision

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- wire uplift
- wire tension
- wire voltage
- wind direction and speed
- pantograph temperature

Video and laser system able to make an automatic control of each pantograph when the train is passing.

RATP Qualified by RATP Paris Metro





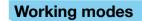
Automatic video inspection system for Pantographs



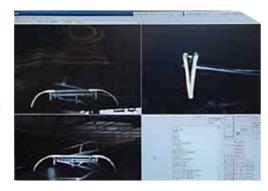


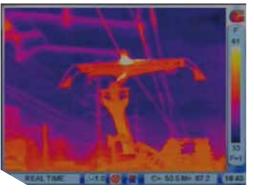


The complete solution for checking the pantographs









Composition

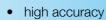


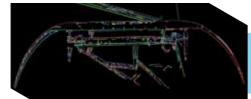


Lighning:

• day and night acquisition







Software:

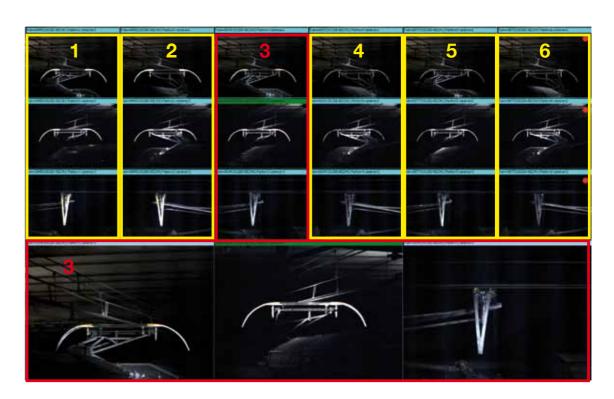
• Computer vision image processing for automatic detection



Damage on the pantograph



Display



Real example of train with 6 pantos. The computer shows in real time the 3 different views of each pantograph: frontal, rear and lateral view.

