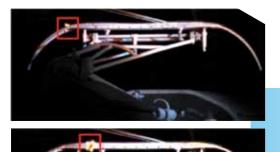
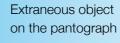
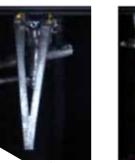
## Other examples







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





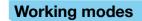
# Automatic video inspection system for Pantographs



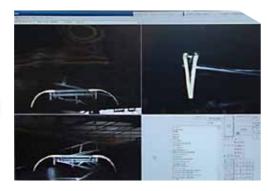


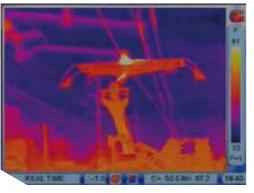


# The complete solution for checking the pantographs









Composition

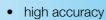


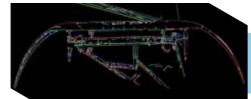


Lighning:

• day and night acquisition







## Software:

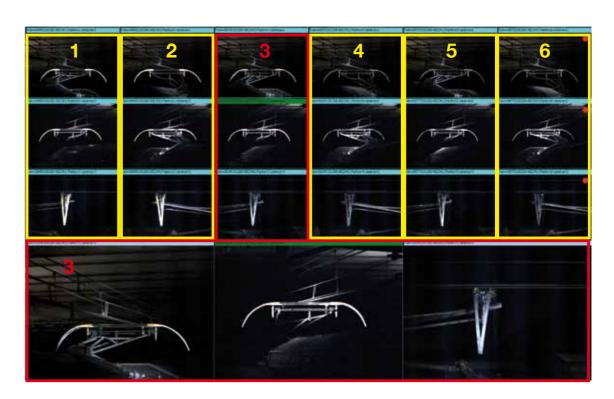
• Computer vision image processing for automatic detection



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.

