

PantoCheck

Automatic inspection system for Pantographs

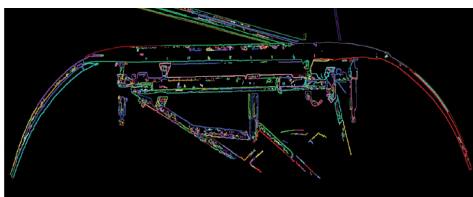
- pantograph shape
- pantograph integrity
- pantograph geometry
- pantograph horns
- missing parts of carbon
- carbon strips wear
- pantograph thrust
- wire uplift

COMPOSITION OF THE SYSTEM



Lighting:

- day and night acquisition



Software:

- Computer vision image processing for automatic detection

- high resolution
- high speed
- multiple cameras



Laser Scanners:

- 3D reconstruction
- high accuracy



Selectra *vision*

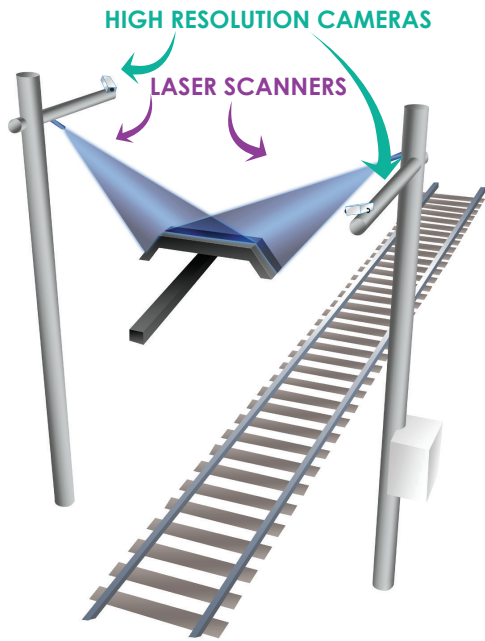


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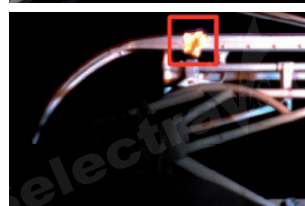
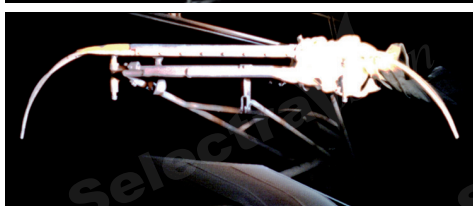
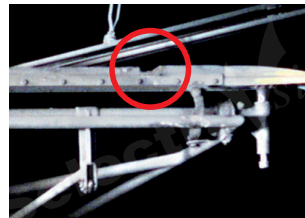
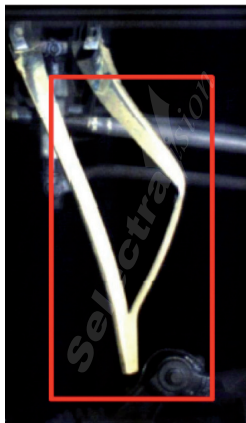
INSTALLATION EXAMPLES



3D RECONSTRUCTION



DETECTION EXAMPLES



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