

Detailed Tunnel Inspection New Technologies ID NT©

The principle developed by Diadès is to combine innovative acquisition means with the technical expertise of specialized inspectors present on site.

Device Description:

The system developed and patented by Diadès (ID NT ©) is made up of different sensors combined together in a single box suspended on a mobile system.

Five elements make up this device:

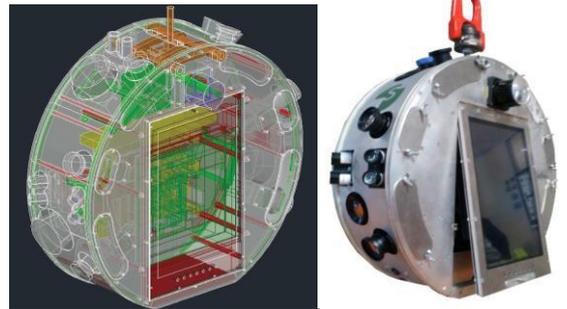
- ✚ very high precision cameras in the visual field,
- ✚ infrared cameras,
- ✚ profilometers and distance meters,
- ✚ temperature/humidity sensors,
- ✚ odometer.



Views of the detailed inspection system New Technologies (ID NT © Diadès)

The device has an autonomous control of its positioning in order to carry out acquisitions always perpendicular to the side walls.

The simultaneous triggering of each acquisition is carried out autonomously by taking into account the distance to the facing, the cone of sight of each camera and the value of the system's advance in the tube.

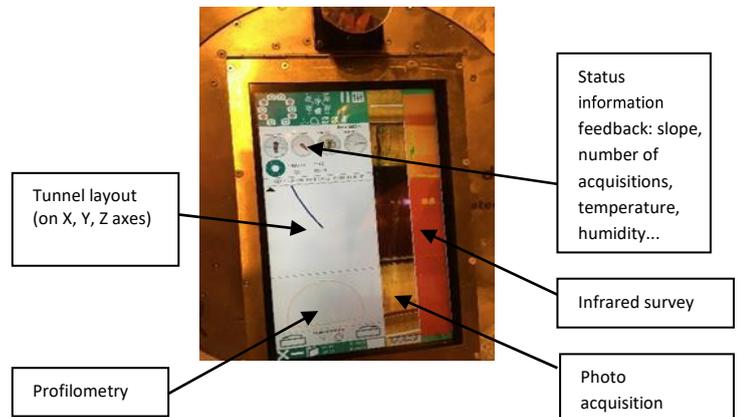


An interface has been developed to allow data control during acquisition.

This interface also allows, thanks to the various sensors implemented, the detection on site of areas of damage or doubts about the state of the structure.

A customizable and identifiable list of reserves is then generated and can be controlled directly on site by surveys, in parallel to the acquisition phase.

This makes it possible to take advantage of marking or track closure slots and to limit the number of interventions on site.



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The system allows to optimize the interest of infrared thermography and other techniques combined in the same crossed and referenced acquisition in order to facilitate the diagnosis of the inspector, directly on site, then in the office.