

## Detailed Inspection for damage report

### Roquemaure Viaduct LGV Mediterranean Line



**Client:**

SNCF

**Project Manager :**

SNCF Région PACA

**Contractor :**

DIADES

**Years :**

Studies : September 2014

**Principal features:**

Variable inertia box Girder Bridge  
Length : 680 metres  
Nombre de modules : 8 modules

**Background**

As part of its' duties for the monitoring and maintenance of its heritage sites, SNCF must conduct regular inspections of its' structures. Because of the severe constraints concerning the LGV lines and their access difficulties, the work of monitoring and inspection of Roquemaure Viaduct are carried out, as with other overpasses, with a lightweight pilot-less drone.

The viaduct has two electrified tracks carrying the TGV Mediterranean line between Lyon and Marseille. It crosses the Rhone alongside two existing bridges: the A9 Auto-Route bridge- and The D976 Road Bridge.

**DIADES' task**

The test mission was carried out in partnership with SNCF management and their innovation team.

The mission aimed to provide the following:

- Raw images of the structure
- image details allowing damage inspection with a precision of 1 / 10th millimeter,
- summary report with identification of observed damage,
- Mapping of problem areas



**Specifics of the Mission**

For the processing of data retrieved during our mission, we used our internal Dia-Map V2 ©software. It gives us a unique approach to the structure by projecting the photographed and mapped disorders onto a 3D model of the structure. The processing and analysis are made on the basis of semi-automatic detection of disorders by mapping analysis and image processing.

**Diadès**

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