

**UNITED KINGDOM
DEFLECTOGRAPH
ACCREDITATION TRIAL SUMMARY TEST CERTIFICATE**

Report No: 0108/VGV 182X Issue 10

**DEFLECTOGRAPH
REGISTRATION NUMBER: VGV 182X
TRL Reference No: 9**

Operated by **WDM Ltd** of **Staple Hill House
Staple Hill
Bristol**

has participated in a United Kingdom Deflectograph Accreditation trial on **28 February 2018** at MIRA Proving Ground, Watling Street, Nuneaton, Warwickshire, CV10 0TU under the supervision of TRL.

The above machine has been tested against the accreditation requirements as provided in "Accreditation and Quality Assurance of Deflectograph Survey Devices" document¹ dated July 2016.

This machine **has successfully met** the mandatory criteria for carrying out surveys on the Highways England Strategic Road Network. Its performance in each test is summarised in the Annex to this test report.

This certificate supersedes any previous certificates issued by TRL.

Signed on 12 March 2018
for and on behalf of TRL Limited

Dr Alex Wright

Valid From:
28 February 2018

Date of expiry:
28 March 2019

¹This document is available from TRL or from the following website
<http://www.ukroadsliaisongroup.org/en/asset-condition/road-condition-information/data-collection/deflectograph/index.cfm>,
please contact accreditation&qa@trl.co.uk for further details.

Test Report Annex

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The following parameters must be passed to successfully meet the requirements of the accreditation trial.

Tested Parameter	Performance
Axle Weight Limits:	
Front Axle (recommended weight 4275-4725kg):	4805kg
Nearside Rear Wheel (permitted weight 2857-3493kg):	3180kg
Offside Rear Wheel(permitted weight 2857-3493kg):	3200kg
Main Deflection Tests:	
Standard Deviation from the fleet mean	Pass
Distance Measurement:	
Distance Measurement	Pass
Comments:	
Outside of the weight range for the Front Axle weight. However, research to date has found that exceeding the front axle limits to a moderate level does not significantly affect deflection measurements. Therefore the performance is deemed acceptable.	

The following parameters were also tested. However, they are not currently a mandatory requirement of the accreditation trial.

Parameter	Performance
Temperature Measurement: The operator is required to measure the temperature of the pavement at a 40mm deep pre-drilled hole. Some Deflectographs also have air and surface temperature sensors fitted. Performance is assessed as follows: HIGH: 80% of measurements within 1°C of reference MEDIUM: 50% of measurements within 1°C of reference LOW: 15% of measurements within 1°C of reference Very Low: Otherwise	
40mm Pavement Temperature Measurement	Medium
Air Temperature measurement	Not Assessed
Surface Temperature measurement	High
Comments:	
Device provided air temperature data, assessment could not be completed because of problems establishing a reference dataset.	