

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

Report No: 0108/VGV 182X Issue 9

**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 **1 March 2017** 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" document<sup>1</sup> 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 13 March 2017  
for and on behalf of TRL Limited



Dr Alex Wright

Valid From:  
1 March 2017

Date of expiry:  
1 April 2018

<sup>1</sup>This document is available from TRL or from the following website  
<http://www.ukroadsliaisongroup.org/en/asset-condition/road-condition-information/data-collection/deflectograph.cfm>,  
please contact [accreditation&qa@trl.co.uk](mailto: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
<b>Axle Weight Limits:</b>	
Front Axle (recommended weight 4275-4725kg):	<b>4810kg</b>
Nearside Rear Wheel (permitted weight 2857-3493kg):	<b>3310kg</b>
Offside Rear Wheel(permitted weight 2857-3493kg):	<b>3035kg</b>
<b>Main Deflection Tests:</b>	
Standard Deviation from the fleet mean.	<b>Pass</b>
<b>Distance Measurement:</b>	
Distance Measurement	<b>Pass</b>
<b>Comments:</b>	
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
<b>Temperature Measurement:</b>	
The operator is required to measure the temperature of the pavement at a 40mm deep pre-drilled hole. 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
Pavement Temperature Measurement	<b>High</b>
<b>Comments:</b>	