

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

Report No: 0108/VGV 182X Issue 13

**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 **25 February 2021** at HORIBA-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 June 2020.

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 behalf of TRL Limited



Patrick Werro

Valid From: 25 February 2021

Date of expiry: 25 March 2022

¹This document is available from TRL or from the following website
<https://ukrlg.ciht.org.uk/ukrlg-home/guidance/road-condition-information/data-collection/deflectograph/>.

Test Report Annex

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

Tested Parameter	Performance
Axle Weight Limits:	
Front Axle (permitted weight 4275-5175kg):	4652kg
Nearside Rear Wheel (permitted weight 2857-3493kg):	3358kg
Offside Rear Wheel(permitted weight 2857-3493kg):	3230kg
Main Deflection Tests:	
Standard Deviation from the fleet mean	Pass
Distance Measurement:	
Distance Measurement	Pass
Comments:	

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	Low
Air Temperature measurement	High
Surface Temperature measurement	High
Comments:	