

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

Report No: 0108/B880 XOU Issue 12

**DEFLECTOGRAPH
REGISTRATION NUMBER: B880 XOU
TRL Reference No: 16**

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):	4586kg
Nearside Rear Wheel (permitted weight 2857-3493kg):	3140kg
Offside Rear Wheel(permitted weight 2857-3493kg):	3258kg
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	Medium
Air Temperature measurement	Medium
Surface Temperature measurement	Medium
Comments:	