

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

Report No: 0108/D962 JRU Issue 13

**DEFLECTOGRAPH
REGISTRATION NUMBER: D962 JRU
TRL Reference No: 5**

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


has participated in a United Kingdom Deflectograph Accreditation trial on **22 February 2022** 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. Some Network Authorities may also require specific level of performance in some or all of the additional tests. The performance of this machine 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: 22 February 2022
Date of expiry: 22 March 2023

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):	4686kg
Nearside Rear Wheel (permitted weight 2857-3493kg):	3131kg
Offside Rear Wheel(permitted weight 2857-3493kg):	3312kg
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
Not Suitable:	Otherwise
40mm Pavement Temperature Measurement	High
Air Temperature measurement	High
Surface Temperature measurement	Not Suitable
Comments:	
Only one of the surface temperature measurements were within 1 degree of the reference. 55% were within 2 degrees of the reference.	