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The Cyclopath

W.D.M. Limited, has called on its unrivalled experience of testing the surfaces of UK roads to develop a specialist machine to check the safety of cycle ways.

The Cyclopath uses tried and tested laser technology to scan the surface of cycle paths to check for rutting, texture depth, changes in the transverse profile and any cracking. It has successfully completed trials in the West Country and in London and is based on proven technology.

It is a smaller version of the Company's successful Road Assessment Vehicle (RAV), which records defects on UK's roads.

In 2012 the Company's road surveying machines were used to check the London Olympic cycle routes and the Cyclopath is the result of several years of research and development.

The Cyclopath not only records the condition of cycle ways, but is fitted with a forward facing video to produce a visual record of the route being checked. It also comes equipped with GPS to enable local authorities and other stakeholders to produce an accurate map of the network.

It produced a Road Condition Indicator score every 10m, but weightings and thresholds need to be established on the National Cycle Network to develop a Cycleway Condition Indicator score.



The Cyclopath has a forward facing camera capturing an image every five metres of forward travel during a survey. Images are 1280 x 768, 24bit RGB colour compressed Jpegs, saved as a Windows AVI file. Other technical specifications:

Longitudinal surface texture obtained by laser height measurements using 1mm sampling

Inertial longitudinal profile measurement (min speed 12 kph)

Continuous GPS location tracking +/-1m

Two metre wide transverse profile measurement sampled every 100mm (optional over 20mm) of forward travel. Profile measurement accuracy +/-1mm.

Single drive / survey operator controls system using 1U PC.

