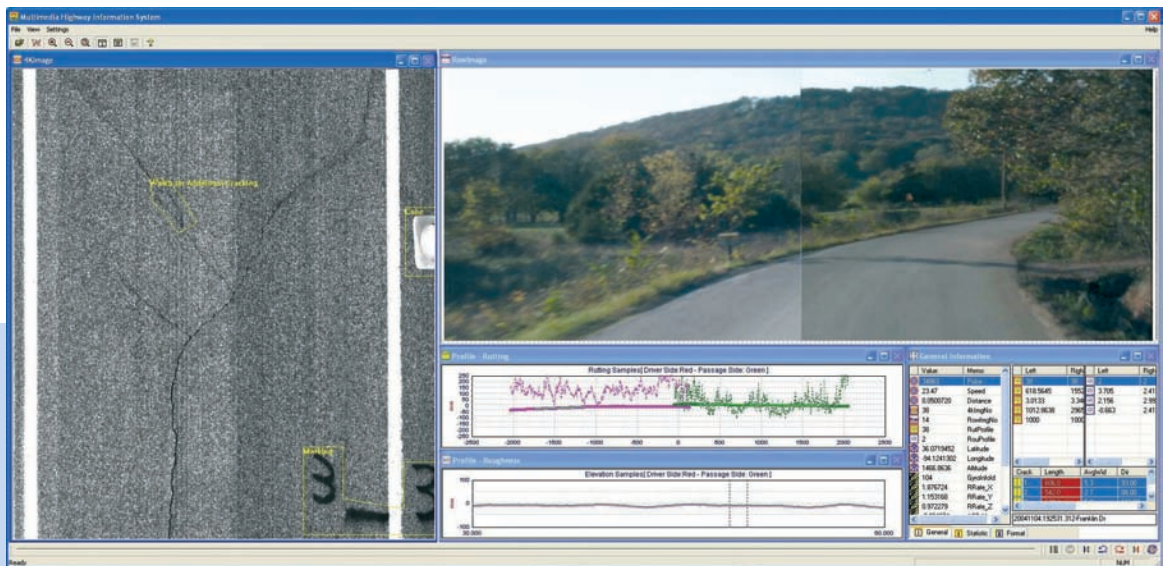


Digital Highway Data Vehicle

Real-Time Automated System for Distress Survey Multi-Function Data Collection

WayLink Systems Corporation and Dynatest International



THE MULTIMEDIA BASED HIGHWAY INFORMATION SYSTEM

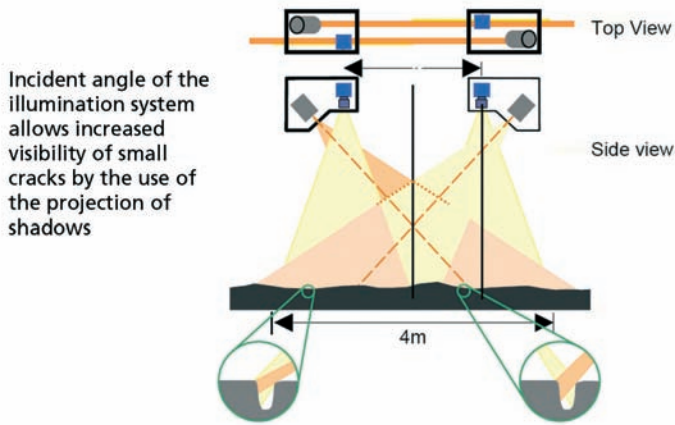
- HIGH-RESOLUTION DIGITAL IMAGES FOR PAVEMENT SURFACE AND RIGHT-OF-WAY
- AUTOMATED DISTRESS ANALYZER (ADA, 1-MM RESOLUTION AUTOMATED CRACKING ANALYSIS)
- LONGITUDINAL AND TRANSVERSE PROFILING (IRI AND RUTTING)
- DIFFERENTIAL GPS, INERTIAL POSITIONING, DISTANCE MEASUREMENT INSTRUMENT (DMI)
- MULTIMEDIA BASED HIGHWAY INFORMATION SYSTEM (MHIS), REPORT WRITER

The automated system for distress survey covers 100% of pavement surface at the transverse resolution of about 4,000 pixels, produces crack map (location & geometries), and classifies longitudinal, transverse, block, & alligator cracks.

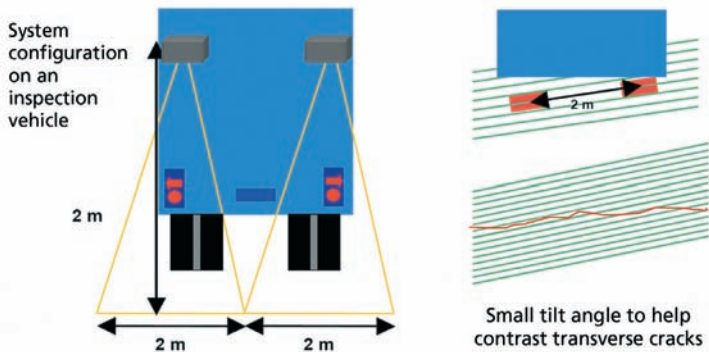


THE MULTI-FUNCTION DIGITAL HIGHWAY DATA VEHICLE

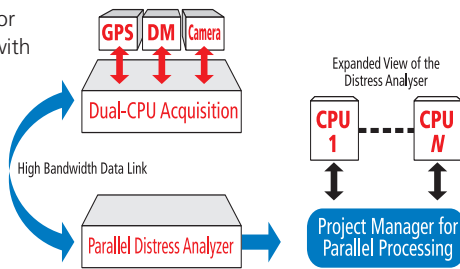
Both data acquisition and processing can be conducted real-time on-board at speed up to 60 MPH. It applies distress protocols & indices such as the AASHTO protocol, Universal Cracking Indicator (CI), and Texas DOT method. It is able to detect 1-mm wide cracks.



The INO LRIS combines a line scan camera with laser illumination requiring only 200 Watts



Acquisition and Processing for Automated Distress Survey with Parallel Computers



PARALLEL PROCESSING AT REAL-TIME IN THE VEHICLE OR POST-PROCESSING

AUTOMATED RECOGNITION OF CONCRETE JOINTS

Counties	Length	Depth	Dis	Area	Roundabout (1:1.5)	Type	Value	Description
1	1000	4	50	20000	200,000,000	Longitudinal	20	Longitudinal
2	1000	4	50	20000	200,000,000	Longitudinal	20	Longitudinal
3	1000	4	50	20000	200,000,000	Longitudinal	20	Longitudinal
4	1000	4	50	20000	200,000,000	Longitudinal	20	Longitudinal
5	1000	4	50	20000	200,000,000	Longitudinal	20	Longitudinal
6	1000	4	50	20000	200,000,000	Longitudinal	20	Longitudinal
7	1000	4	50	20000	200,000,000	Longitudinal	20	Longitudinal
8	1000	4	50	20000	200,000,000	Longitudinal	20	Longitudinal
9	1000	4	50	20000	200,000,000	Longitudinal	20	Longitudinal
10	1000	4	50	20000	200,000,000	Longitudinal	20	Longitudinal



FITTING DETAIL