



Pavement View Video Package



Overview

The 2000 series Pavement View Video Package is a sophisticated Hawkeye compatible video acquisition system for visually identifying and locating pavement deterioration and cracking accurately at highway speeds.

The system utilises the latest digital camera technology and produces crisp high resolution video frames. The high frame rate ensures a continuous and accurate digital record of the roadway.

Used in conjunction with the Hawkeye 2000 Acquisition Package, the video package accurately logs digital images of the pavement against the other Hawkeye parameters such as distance (chainage), GPS and profile for post comparison.

The camera and lens are mounted in a fully waterproof enclosure and are typically mounted on a vehicle roof rack using the extendable Pavement View Beam attachment.

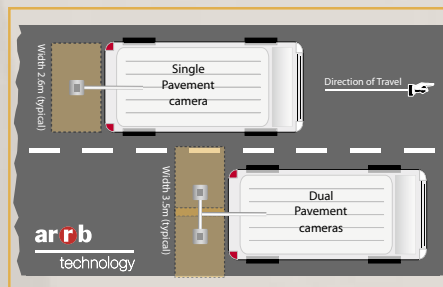
The Hawkeye Processing Toolkit software ensures that the survey database can be reviewed, edited and processed efficiently. The data can be directly compared against other Hawkeye parameters and can be exported to most Pavement Management Systems.

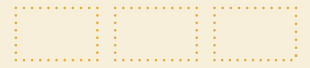
Features and Benefits

- Continuous high resolution digital images linked and referenced against chainage, GPS etc
- Full lane (2.7 to 4 m) coverage - adjustable
- Operation at highway speeds
- High resolution B&W Digital Camera (progressive scan)
- Large storage capacity, e.g. 5,000 km storage at 3 m intervals, 10x compression per disk. Additional portable storage devices available
- AVI storage files (Movies can be viewed in Windows Media Player and other standard players)

Applications

- Performs cost effective pavement condition and deterioration assessment easily and safely
- Road surface marking identification
- Can be used with pavement deterioration models and management systems
- Typically used with Hawkeye Processing Toolkit





Pavement View Video Package

Specification Summary

Condition

Image Position Error
 Typical Sensor Type
 Camera Format
 Picture Size
 Effective Picture Elements
 Colours
 Survey Speed
 Max Frame Rate
 Frame Rate Configuration
 Compression
 Typical FOV
 Typical Resolution
 Exposure Control

 Lens Type
 Coverage
 Storage Format

Requirement

Less than 1 m with DMI Distance sensor
 1/2" IT CCD progressive scan (square pixels)
 Digital IEEE-1394, 400 Mb/sec
 1280 x 960 pixels
 1392 (H) x 1040 (V)
 Mono8
 Zero to full highway speed @ 3 m intervals
 15 fps
 Software configurable, external distance trigger operation
 Adjustable (0 – 100x compression), user selectable compression CODECs
 2.4 m x 3.2 m (depends on mounting height)
 2.5 mm / pixel @ lane width of 3.2 m
 Electronic control by operator, auto exposure, 17 sec – 1/100,000,
 f1.2 – close manual aperture
 Goyo Optical 24514C 4.5mm F1.4-Close
 100% coverage - adjustable, typically 4 m x 3 m
 AVI files (compressed)

Components

- Firewire IEEE-1394 camera, housing and mounts
- Interface Cards, connection cables
- Pavement Acquire 2000 software

Optional Components

Product

- + Roof Rack Mounting Assembly
- + Pavement View Beam

Description

Roof Rack assembly to mount Asset View and/or Pavement View Cameras
 Mounting Beam for Pavement View camera

Hawkeye 2000 series professional survey solutions

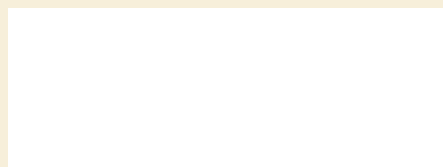


Related Products

Hawkeye 2000: Acquisition, Profiling, GPS and Geometry Packages
 Hawkeye 1000 series: Portable Survey Solutions

Note: ARRB Group Ltd reserves the right to change these specifications without notice. Whilst every care is taken in preparing these specifications, ARRB recognises that there may be classes of surface and applications for which the device has not been tested, and for which the device may not meet the stated specifications.

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