Sensors for Traffic Detection

ECONOLITE

Autoscope® *AIS-IV*

The Autoscope Image Sensor (AIS)-IV is a lightweight color zoom camera system designed for the rigors and performance requirements of vehicle detection at virtually all traffic intersection and highway environments. AIS-IV provides new levels of strategic traffic information, supporting the latest Intelligent Transportation System (ITS) programs.

The AIS-IV provides transportation agencies and Metropolitan Planning Organizations (MPO) the enhanced traffic management capabilities and data that are required for ITS. In addition, the strategic traffic information AIS-IV provides access to support comprehensive reporting for funding opportunities, regular signal timing updates, traveler and shared traffic information, etc.

As more Intelligent Transportation System programs come online, the AIS-IV offers one of the largest gains in capability. It helps ensure that the promise of reduced congestion, shorter commute times, and increased safety are realized.

Key Features

- Advanced Traffic Management Detection
- Designed for most wide-area machine vision vehicle detection applications
- Low maintenance
- Low power consumption
- Rugged, environmentally sealed enclosure
- Auto-gain circuitry for improved detection in varying light conditions
- Hydrophilic faceplate coating
- No streaking or blooming from bright light sources (headlights)

Description

The image sensor has high sensitivity for accurate vehicle detection at night and during other low light conditions. The solid-state design provides maximum hardware reliability for 24/7 operations. The color image sensor minimizes streaking and blooming from bright light sources, such as headlights and wet pavement that could adversely affect detection performance.

A variety of available mounting brackets enable easy installation of the AIS camera systems on existing poles, mast arms, or other structures. The unique bracket design speeds installation by minimizing adjustment hardware and eliminating steps in the set-up process.

Faceplate Heater

New technology has greatly reduced the power consumption of the AIS. By applying heat directly to the faceplate, the AIS can keep the faceplate clear in extreme conditions with less power.

Zoom Control

"Control-over-Coax" technology is used to adjust the zoom lens, eliminate adapter cables, or extra control wires in the pole, simplifying installation. Zoom and camera controls travel to the AIS along the coax cable. Adjustments are made via a hand-held zoom controller that plugs into the coax cable, allowing the user to adjust the lens via a laptop computer.

Wide Range Optical Zoom

The AIS-IV has been recently updated with a 33x optical zoom lens. This provides the user with the maximum flexibility in setting up the detection system to match the detection objectives for the intersection.

Color or Black & White

The AIS-IV can be ordered with output video pre-set to color or black & white. For RackVision™ and 2020™ MVP products, order with color video output. For use with Autoscope 2004 MVP, black & white video must be used. The video output can be switched by the user via the zoom control setup software.

Hydrophilic Faceplate Coating

This new faceplate coating fills the porous surface of the face plate, preventing airborne contaminants and water from striking and sticking to the surface of the lens. The coating maintains image quality and reduces the need for maintenance.

Specifications

Temperature

- -40°F to +140°F (-40°C to +60°C)

Power

- Input power options: 85-265VAC-40-440Hz/24VAC, 47-440Hz/12-14VDC

- 10W max

- 5W nominal

Dimensions

- Housing Enclosure: 3.5 in. D x 10.3 in. L (8.89 cm D x 26.2 cm L)

- Weather sunshield: 14.5 in. L (36.8 cm L)

EasyLock Connection Option

This connector is an excellent choice for easy field installation. It eliminates "pig tail" camera cables and splicing by allowing the installer to pull power and coax cable directly to the camera. Connectors are easily installed for reliable, waterproof connections. A military style MS connector version is also available for customers that prefer that option.

RVT

AIS-IV

Autoscope Supervisor PC

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