

Autoscope AIS-V



The Autoscope Image Sensor (AIS) Series 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.

About AIS-V

As more Intelligent Transportation System (ITS) programs come online, transportation agencies and metropolitan planning organizations (MPO) are realizing the enhanced traffic management capabilities that are accessible through ITS. A solution that offers one of the largest gains in capability and lower cost of ownership to any ITS program is a video detection system. A video system provides access to new levels of strategic traffic information, supporting comprehensive reporting for funding opportunities, regular signal timing updates, traveler and shared traffic information, etc. Optimized as a video source for the *Autoscope* standalone Machine Vision Processor (MVP) product suite, the AIS Suite of cameras produce consistently high quality video in all weather, lighting, and traffic conditions common in today's demanding traffic management and ITS environments.

At A Glance

- Low power consumption
- Thermostatically controlled heated faceplate
- 10x zoom lens & color imager
- Minimal streaking or blooming from bright light sources (headlights)
- Rugged, environmentally-sealed enclosure
- High sensitivity for accurate detection at low light levels
- Auto-gain circuitry for improved detection in varying light

Camera Failsafe Operation

Autoscope provides both optical and electrical failsafe features. Under failed conditions, both features turn on all associated detector outputs, ensuring safe intersection operation. This electrical failsafe is the same operation as other equipment in the cabinet, as required by all major industry specifications. Since the Autoscope system depends on non-electrical processes, an additional failsafe is used for problems with the lens or faceplate. The Autoscope system provides options for poor contrast situations to maintain both the safety (during Red) and the efficiency (during Green) of intersection operations. The optical failsafe feature can be disabled for freeway and count station applications.

Camera Pigtail Cable

The camera pigtail cable is available in a wide variety of lengths for connection of branch cabling at the base of the pole or a "homerun" back to the cabinet. The easy-to-install connector also helps keep the overall size of the camera small and compact.

AIS-V Interface Panel

The AIS-V interface panel in the cabinet protects other cabinet equipment from outside surges and noise. Its several layers of protection include transformer isolation and fuses.

Zoom Control

The AIS-V camera uses a RS-485 circuit to control the zoom of the lens from a handheld controller. Since aiming the camera is most often a one-time event, this simple zoom control helps keep the overall size of the camera small and compact. The installer can conveniently make adjustments with the handheld zoom controller from the bucket, base of pole, or cabinet.

Basic Specifications

- Temperature
 - -40°F to +140°F/-40°C to +60°C
- Power
 - Input power: 24VAC, 60 Hz, 6W max (with heater on)
 - AIS-V Interface Panel: 120VAC, 60 Hz
 - AIS-V 220 Interface Panel: 240 VAC, 60 Hz
- Dimensions
 - Mounting: Standard camera bracket tilt-top provided
 - Enclosure with weather/sunshield: 10.75 in. L, 4.8 in W, 5.6 in. H

