

# Autoscope® AIS-IV



The AIS-IV Camera is a rugged, lightweight, compact, high-resolution colour zoom camera designed for the rigors of the traffic environment.

The camera produces consistent high quality video in all weather, lighting, and congestion levels common to traffic. The image sensor has high sensitivity for accurate vehicle detection at night and during other low light level conditions.

The solid-state design provides maximum hardware reliability and reliable 24-hour operation. The weather shield serves to minimize rain, snow and sleet contact on the faceplate and can be adjusted to shield the faceplate from direct sunlight to reduce glare, improving video contrast for superior detection.

Autoscope video detection systems deliver an economical alternative to loops and other detection technologies for signalised junction control and incident management applications for bridges, tunnels, and highways.

## FEATURES

- Designed for wide area video vehicle detection
- 22x remote controlled zoom lens & color imager
- Zoom & set-up control over coaxial cable
- No streaking or blooming from bright light sources such as headlights
- High-sensitivity for accurate detection at low light levels
- Rugged, environmentally-sealed enclosure and sunshield designed to withstand all weather extremes
- Advanced faceplate heater
- Low power consumption

## BENEFITS

- Cost-effective solutions for traffic management
- Easy to install and aim
- Flexibility to meet a variety of detection and surveillance needs
- Superior value and performance when compared to other detector systems

## ZOOM CONTROL

The AIS-IV Camera uses "Control-over-Coax" technology 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 controller or a coax modem that plugs into the coax cable, allowing the user to adjust the lens via a laptop computer.



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## SPECIFICATIONS

### Power

- Input
  - 85-265 VAC, 50 or 60 Hz or
  - 24 VAC, 50 or 60 Hz
  - 12-14 VDC
- Consumption
  - 10W maximum
  - 5W nominal

### Video Output

- NTSC/RS 170
- PAL/CCIR

### Lens

- 22x continuous focus zoom
- Horizontal: 2.2 to 47.3 degrees
- Vertical: 1.65 to 36.45 degrees

### Camera

- 1/4 inch colour format CCD image
- Horizontal resolution
- >460 TVL
- Shutter speed: 1/60 sec (fixed)
- Sensitivity (at lens, full video, AGC off) 2.0 lux (colour)
- Luminance signal-to-noise >50 dB
- Synchronization: crystal lock

### Interface Power & Video

- Separate power and video
- MS 14-18P, round Mil Spec connector

### Housing and Sunshield

- Zoom lens image sensor sealed in waterproof and dust-tight housing
- Housing meets NEMA-4 and IP 66 standards
- Hydrophilic faceplate coating
- Faceplate heater
- Adjustable weather and sunshield with drip guard and custom aperture
- Optional pressurized enclosure (MS connector only)

### Environmental

- -40° C to +60° C (-40° F to +140° F)
- IP 66

### Dimensions and Weight

- H x W x L (with sunshield and bracket)
  - 142.24 mm x 121.92 mm x 273.05 mm
  - (5.6 in x 4.8 in x 10.75 in)
- 1.8 kg (4.0 lb)

### Warranty

- Two-year warranty
- Extended warranty package available

### Regulatory

- EN 55022
- FCC Part 15, Class A

## FACEPLATE HEATER

Reduced power consumption attained by applying heat directly to the faceplate. The AIS can keep the faceplate clear in extreme conditions with less power.

## HYDROPHILIC FACEPLATE COATING

This new faceplate coating fills the porous surface of the faceplate, 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.

## CONTACTS

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