

Autoscope® RackVision™ Machine Vision Processor

A state-of-the-art video detector card that offers an economical alternative to inductive loop detectors for basic intersection or freeway applications, using a single external video detection camera



Description

Autoscope RackVision joins the **Autoscope** suite of machine vision detection technology. The Rack Vision vehicle detection system delivers the same high performance machine vision processing that is available in the **Autoscope Solo**® Pro. RackVision can be used with black and white or color **Autoscope** Image Sensors (AIS) or CCTV cameras.

Autoscope RackVision has been designed to plug directly into standard U.S. loop detector racks. It can be easily integrated into existing **Autoscope Solo** communication installations. RackVision units can be quickly networked together, using built-in network and communication software with off-the-shelf Ethernet cables.

Benefits

- Cost-effective solutions for traffic management
- Field-proven accuracy
- Easy to install and configure
- Flexibility to meet a variety of detection and surveillance needs
- Expanded application opportunities
- Up to 6 RackVision units and a power supply can easily fit into a standard US loop amplifier rack
- Optional enclosure for shelf mounting

- Features the **Autoscope** Configuration **Wizard**® and SmartMouse™/Mouse & Monitor

Features

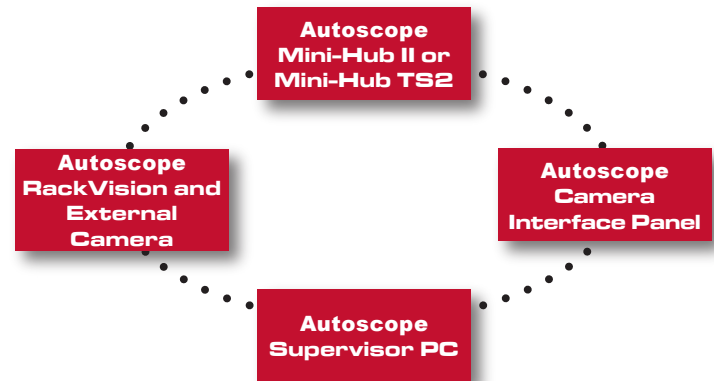
- Single-camera video detection processor card and TS1 I/O in a 2-slot width footprint
- Provides basic vehicle detection, traffic data measurement, and incident detection
- Plugs into existing standard US loop detector racks
- Stores traffic data in non-volatile memory
- Auto-selects NTSC or PAL video formats
- Low power consumption
- Self-test on power-up
- Local language support
- IP addressable into **Autoscope Solo** network, using sophisticated networking at high data rates
- LED indicators show status for communications, valid video, data processing, and power
- Detector I/O via front panel DB-15 connector

Setup & Operation

- Simple mouse and keyboard operations allows custom positioning for virtual detection zones
 - Customize detection to meet any requirements
- Detection zones for count, presence, speed, and incident detection applications
- Real-time polling or stored data includes:
 - Volume, occupancy, speed, 5 vehicle classes, and other traffic data over selected time periods
 - Status of incident and other alarms are available
- Speed and classification output data requires an **Autoscope** detector port master
- Easily assign detector outputs to interface with existing traffic control equipment
- Provides 8 outputs and 4 inputs via edge connector or front panel DB-15 (jumper selectable)
- Quickly integrate traffic data into existing software applications using the optional **Autoscope** Software Developer's Kit (SDK)

Applications

- Incident detection and management for expressways, tunnels, and bridges
- Junction control
- Traffic data collection
- Traffic safety applications
- Work-zone safety and traffic control
- Central office processing



Communications

- DB-9 RS-232 for local PC communication
- One RJ-45 connector for RS-485 full-duplex network connection

Regulatory

- NEMA TS2 compliant
- CE EN 55022
- CE EN 61000-6-1
- FCC Part 15, Class A

Power

- 10-28 VDC
- < 400 mA
- < 650 mA

AIS Camera

- 22x continuous focus zoom lens
- Horizontal: 5° to 73° FOV
- Vertical: 5° to 58° FOV

Environmental

- - 29°F to +165°F (-34°C to +74°C)
- 0 to 95% relative humidity

Video Input

- Composite 75Ω 1 Vpp, BNC connector
- Color: NTSC or PAL
- Black & White: CCIR or RS170

Output

- 1 Vpp, BNC connector
- NTSC or PAL
- Optional video compression

Dimensions and Weight

- 4.5 in. H x 2.25 in. W x 7 in. L (114 mm x 57 mm x 178 mm)
- 0.9 lb (0.04 kg)

Warranty

- Two-year warranty
- Extended warranty available (five-year warranty package)

Product Support

Product support and training by team of factory-trained **Autoscope** technical support specialists

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