

Autoscope® RackVision™ System-16

A high-density video detection solution specially designed for traffic management centers, tunnels, bridges, freeway hub buildings, or large actuated intersections; a simple solution to gathering traffic data, events and incident alarms from **Autoscope** cameras or CCTV cameras



Description

The **Autoscope** RackVision System-16 Sub-rack Assembly provides a multi-camera video detection solution with the same high performance that can be expected from the **Autoscope** family of products. It processes video from **Autoscope** Image Sensor (AIS) cameras or CCTV cameras for a convenient, high-density video detection solution for traffic congestion management.

With up to 16 detection cards installed per rack, RackVision System-16 is an ideal solution for multi-camera applications.

Autoscope video detection systems install and configure easily. Video can be transmitted back to the office or Traffic Management Center (TMC) by using connections as simple as twisted pair copper, as fast as fiber-optics, or convenient as wireless radios.

The convenient high-density rack format of RackVision System-16 makes this an effective and economical alternative to other detection technologies.

Benefits

- Cost-effective solution for traffic management
- Field-proven accuracy and reliability
- Easy to install and configure

- Flexibility to meet a variety of detection and surveillance needs
- Superior value and performance when compared with other detector systems
- Connects to AIS cameras or CCTV cameras (color or black and white)

Features

- Up to 16 video input channels (PAL, CCIR, NTSC, or RS-170) in a single rack design
- Multiple-rack linking for high-density applications
- Ethernet enabled
- Video multiplexer/switch and video out on front panel
- Video inputs and outputs on rear panel for each card
- Dual power supplies
- Contact closure vehicle presence or alarm outputs via rear chassis screw terminations or serial I/O
- Additional detector outputs available when using an optional detector port master card
- Non-volatile memory data storage on each card
- Local language support for many languages
- Optional on-board Video Compression (VC) cards
- Proven **Autoscope** technology

Setup & Operation

- The **Autoscope** RackVision System-16 is easy to install, set up, and operate to meet your customized requirements.
- Set up and manage using the **Autoscope** Software Suite's user-friendly Graphical User Interface (GUI).
- Setup uses simple mouse or keyboard commands to create up to 99 virtual detectors per camera for count, vehicle presence, and incident detection applications.
- Real-time or stored traffic data includes volume, occupancy, speed, and vehicle class over specified time periods.
- Quickly integrate the RackVision System-16 into existing applications using the Software Developer's Kit (SDK).
- For speed data via loop emulation, the RackVision System-16 requires an **Autoscope** Detector Port Master (DPM).

Applications

- Traffic incident management for stopped vehicles, slow-moving vehicles, wrong-way vehicles on:
 - Highways
 - Tunnels
 - Bridges
 - Interchanges
- Fully-actuated intersection detection for large intersections and interchanges
- Traffic Data Collection:
 - Counts
 - Speeds
 - Classification
 - Incident alarms
- Traffic safety
- Traveler information systems
- Journey time (travel time)

Power

- Input voltage 90 - 240 VAC
- Power consumption:
 - 120 W max

Video

- Input
 - Composite 75Ω, 1 Vpp, BNC connectors
 - PAL, CCIR, NTSC, or RS-170
 - 16 Video Inputs on rear panel (one per RackVision card)
- Output
 - PAL or NTSC
 - 1 BNC connector (1 Vpp) on front of video mux card, software or hardware selectable output
 - 1 BNC connector (1 Vpp) on rear panel (Mux output)
 - 16 BNC connectors (1 Vpp) for processed video on rear panel (1 per RackVision card)

Detector I/O

- 4 Inputs per RackVision card
- 8 contact closure outputs (open collector, selectable active low, or high) per RackVision card
- Serial I/O for use with optional Detector Port Master for additional outputs
- 1 status output per RackVision Card

Communications

- Serial supervisor communication from 9600 to 230K baud
- RS232 supervisor communication via DB9 connector or via Ethernet RJ45 connector on front of video mux
- RS485 supervisor (4-wire, full-duplex) communications using two RJ45 connectors
- Detector Port or TLS communications (2-wire, half-duplex) on rear via screw terminals
- Optional 10/100 Mbps Ethernet connectivity

Environmental

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

Dimensions and Weight

- 5.25 in. H x 19.00 in. W x 8.56 in. L (133 mm x 483 mm x 217 mm)
- 14.0 lb (6.4 kg)

Regulatory

- CE EN 55011, EN 61000-6-2, EN 60950, NEMA compliant

Warranty

- Two-year warranty
- Extended warranty package available

Product Support

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

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3360 E. La Palma, Anaheim, CA 92806-2856

Tel: (714) 630-3700 • Fax: (714) 630-6349

E-mail: sales@econolite.com

www.econolite.com

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