

# Autoscope® RackVision™ Terra™

Ideally suited for tunnels, roadways, bridges and junction applications, this Autoscope video detection solution delivers high performance vehicle detection for junction control traffic data collection and incident management.

With innovative *Terra* Technology you will appreciate the dual-core processing power, web browser communications, streaming digital video and ease of setup and use. EasyLink™ broadband connectivity provides simple connection to your traffic system communications network. Each detector card slides into standard rack systems and easily integrates with Autoscope communications networks.

With an array of capabilities, the Autoscope® RackVision™ Terra™ detector card is a cost-effective and versatile solution for transportation control and management.



## APPLICATIONS

- > Traffic incident management
  - Highways
  - Tunnels
  - Bridges
- > Junction control
- > Traffic data collection and analysis
- > Work zone safety and traffic control
- > Traveler information systems
- > Journey time (travel time)
- > Remote video surveillance
- > Safety and security

## FEATURES

- > Vehicle detection, traffic data measurement and incident detection
- > Single (1) camera video processor channel (PAL, CCIR, NTSC or RS170)
- > Dual-core processor for advanced image processing
- > MPEG-4 digital streaming video output
- > EasyLink broadband communications
- > View video from remote locations using Internet browser
- > IP addressable
- > Backplane provides convenient terminations
- > Fail-safe outputs

## BENEFITS

- > Cost-effective solutions for traffic management
- > Field-proven accuracy and reliability
- > Easy to install and configure
- > Easily integrated into controllers and detector racks
- > Flexible design meets a variety of detection objectives
- > Superior value and performance compared to other detector systems



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## SPECIFICATIONS

### Power

- > 12 to 24 VDC, 11W maximum
- > Consumption, current
  - @12VDC: 11W, 900mA
  - @24VDC: 11W, 500mA

### Video

- > Input
  - PAL, CCIR, NTSC or RS170
  - 75Ω Vpp, SMA connector on back
- > Output
  - 1 Vpp, BNC connector on front
  - 1 Vpp, SMA connector on back
  - PAL or NTSC
  - MPEG-4 digital streaming video via EasyLink

### Communications

- > EasyLink Ethernet 10/100 Mb/s communication via RJ-45 connector on front
  - Detector I/O
- > Outputs (open collector, selectable active low or high)
  - 32 (96-pin DIN version)
- > Inputs
  - 16 (96-pin DIN version)
- > Status output (open collector, active low) to indicate card is processing and detector I/O valid
- > Serial I/O via EasyLink

### Environmental

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

### Dimensions and Weight

- > H x W x L (3U x 160 mm)
  - 130 mm x 20 mm x 191 mm
  - (5.10 in x 0.80 in x 7.5 in)
- > 0.16 kg (0.35 lb) basic unit

### Warranty

- > Two-year warranty
- > Extended warranty package available

### Regulatory

- > CE EN 55022, EN 61000-6-1
- > RoHS

## SETUP AND OPERATION

The Autoscope RackVision Terra card is easier than ever to install, set up and customize to meet your requirements.

- > You can assign detector outputs to detector interface cards that are compatible with all existing traffic control equipment. Simple mouse and keyboard commands create detection zones for:
  - Tunnels
  - Highways
  - Bridges
  - Junction control
- > Real-time or stored traffic data includes:
  - Volume
  - Occupancy
  - Speed
  - Classification
- > Incident alarms can be assigned to discrete detector outputs or transmitted directly to a traffic incident management system. Incidents detected include:
  - Stopped vehicles
  - Wrong way vehicles
  - Slow moving vehicles
  - Pedestrian
  - Debris
  - Smoke/fire
- > You can quickly integrate traffic data into your own application using the optional Autoscope Software Developer's Kit (SDK).