

Autoscope® Tunnel Smoke Detector

Provides video-based smoke detection in tunnels for primary, secondary, and visual incident management from **Autoscope** or CCTV surveillance cameras

Description

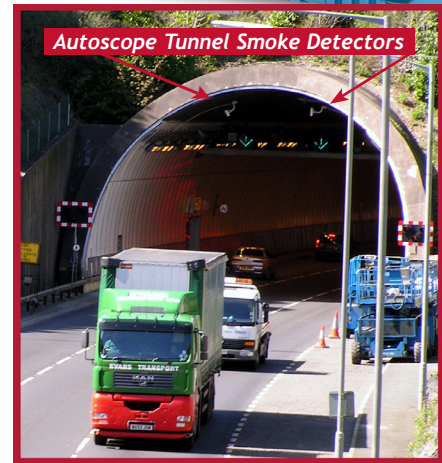
A tunnel smoke detector alarm provides primary or secondary notice of potential smoke threats inside the tunnel. The alarm and video pictures provide tunnel managers with another source of information to verify the extent of the situation.

Tunnel authorities also receive the proven benefits of standard **Autoscope** incident detection alarms and traffic data collection. The Tunnel Smoke Detector detects smoke anywhere in the camera's field-of-view, while concurrently detecting other incidents for traffic congestion mitigation.

Flexibility of installation means easier integration into existing tunnel sensor designs. For tunnels with existing surveillance cameras, video feeds connected to **Autoscope** can also enable automatic smoke detection. The **Autoscope** product family is ideal for meeting both surveillance and detection objectives.

Autoscope video detection systems install and configure easily for smoke and traffic detection applications. Video output and data may be shared within the control center or remotely by using a variety of communication standards. The flexibility and convenience of the Internet is also possible with the use of Econolite's Data Collection Management Service (DCMS).

Autoscope tunnel solutions provide effective, efficient, and economical design alternatives to other detection technologies, as well as working in conjunction with existing detection subsystems. It brings added value to CCTV surveillance systems during idle times. With its easy-to-use Software Developer's Kit (SDK),



a compact **Autoscope** network integrates quickly into tunnel control software for system-wide traffic data collection, event alarm, incident detection, and video management for safe tunnel operations.

Features

- Video-based tunnel smoke alarms
- Detects smoke in any localized areas within the camera's field-of-view
- Automatically detects smoke during routine **Autoscope** vehicle detection processes
- Provides two alarm outputs:
 - Pre-alarm warning
 - Smoke alarm
- Single hardware platform hosts both **Autoscope** Tunnel Smoke Detector and the **Autoscope** Tunnel Lane Detector
- Compatible with all **Autoscope** hardware platforms: **Autoscope Solo**® Pro, **Autoscope RackVision**™, **Autoscope 2020**™, **Autoscope Solo Terra**™, **Autoscope RackVision Terra**, and RackVision System-16
- Simultaneous vehicle detection, traffic data measurement, and incident detection
- Proven **Autoscope** technology with low power consumption
- Local language support

Benefits

- Enhances tunnel safety with early automatic smoke detection
- Detects smoke and incidents, provides surveillance, and collects traffic data with one system
- Performs video-based smoke detection and concurrent incident detection with no additional hardware
- Increases tunnel effectiveness and overall safety by expediting the response to incidents
- Reduces traffic congestion
- Field-proven detection accuracy and reliability
- Easy to install and configure
- Flexibility to satisfy a wide variety of detection and surveillance objectives
- Superior value and performance when compared with other detection systems
- Collects traffic data, detects incidents, processes event alarms, and shares video outputs with traffic managers across multiple agencies

Applications

- Video-based smoke warnings and alarms from CCTV cameras for tunnel safety
- Tunnel staff can visually verify smoke or other incidents to better manage situations
- Detection technology both inside and outside the tunnel provides seamless system-wide incident detection
- Traffic incident management includes:

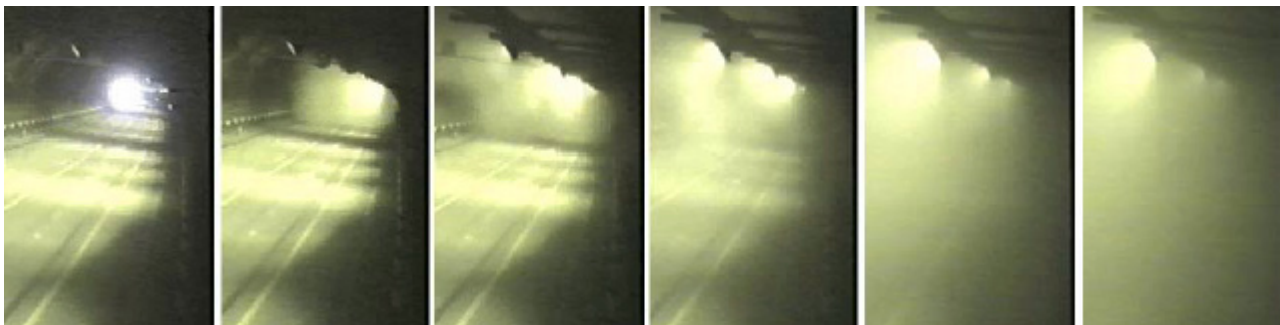
- Automatic smoke detection for emergency situations
- Automatic incident detection to relieve congestion from stopped vehicles, slow moving vehicles, and wrong-way vehicles
- Traffic data collection Includes:
 - Vehicle counts
 - Speed
 - Density
 - Classification
 - Incident event alarms
 - Traffic safety
 - Traveler information systems
 - Journey time (travel time) calculations
 - Remote video surveillance

Setup & Operation

The **Autoscope** Tunnel Smoke Detector software option is easy to setup and operate to meet your tunnel safety requirements:

- Compatible with the configuration software for all **Autoscope** products
- Initiate software option with a furnished password
- Provides two alarm state outputs:
 - "Warning" pre-alarm state when smoke is first suspected in the scene (video recording can begin)
 - "On" alarm when smoke is confirmed
- Access alarm output through a serial port or Ethernet port via polling through discrete electrical outputs or overlaid on the video output for graphical display

Pictured below is the view from inside a tunnel, demonstrating the **Autoscope** Tunnel Smoke Detector's initial detection of smoke.



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