

Autoscope Solo Pro II™ Machine Vision Processor

A high-resolution color video detection and surveillance system with a zoom lens. Featuring simple set-up, configuration, and video compression.



Autoscope®

Features

- Integrated color camera, zoom lens, and machine vision processor in one compact unit.
- 22X zoom lens & color imager.
- Enhanced video compression capability with optional built-in wavelet-technology hardware.
- Direct real-time iris and shutter speed control.
- IP address for Solo network.
- Rugged, environmentally-sealed enclosure.
- Space age faceplate heater.
- Low power consumption.
- Microprocessor technology for reliable long-life performance.
- Fail-safe mode sends outputs to traffic controller.
- Now with an optional 5-year extended warranty package.

Description

The Autoscope Solo Pro II™ (Machine Vision Processor), part of the Autoscope family of high-performance machine vision detection technologies, offers field-proven reliability and the flexibility to meet more detection objectives. New features increase the effectiveness of the world's first integrated wide-area video detection system for traffic management professionals everywhere.

By integrating a color camera, zoom lens, and machine vision processor into a single cost-effective package, the Autoscope Solo Pro II better responds to dynamic lighting changes for more robust performance in all conditions. An optional video compression (VC) card uses a wavelet CODEC for faster streaming video back to the office. Simplified installation and maintenance help keep costs down. At 17 watts, it's a power miser!

The advanced Autoscope Solo® system architecture complements the field-proven Autoscope product suite. The Autoscope Solo Pro is ideal for freeway, intersection, bridge, tunnel, railroad, traffic monitoring, and incident prevention applications.

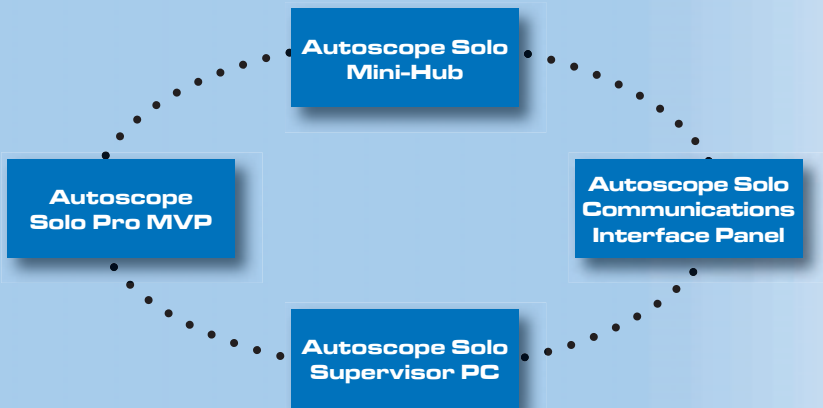
An Autoscope Solo network can link the traffic management center with each IP-addressable Solo Pro II in the field. With the Solo Communications Server Software Developer's Kit (SDK), a programmer can easily create new client applications for display, incident alarms, and traffic parameter databases.

The Autoscope Solo Pro II provides an economic alternative to loops and other detection technologies. Twisted-pair wiring to the Solo Pro II is faster and easier to install than higher-cost coaxial cables. Remote connections as simple as a phone line or wireless radio can bring compressed video and data back to a traffic management center.

Benefits

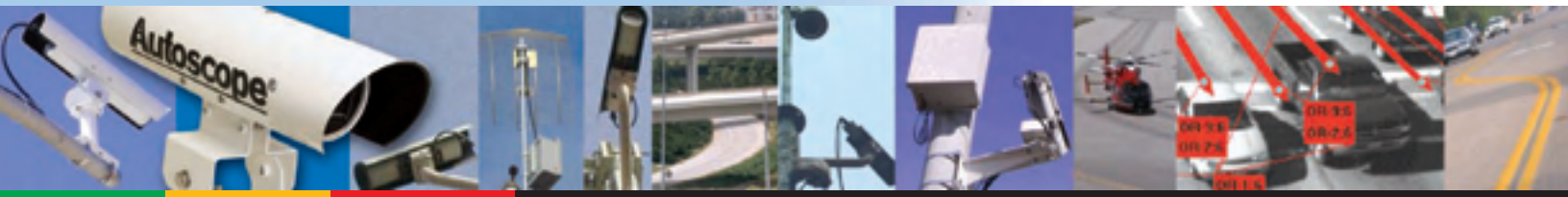
- Simplicity with Autoscope Wizard™.
- Superior value when compared to other detection systems.
- Flexibility in application.
- Reliable detection performance.
- Ease of installation and cost-effective maintenance.
- Native language support.
- Streaming video with actuations.





Applications

- Intersection control detection.
- Freeway management detection.
- Incident detection and verification.
- Traffic survey data collection.
- Temporary, construction, and work zone safety.
- Smart, remote surveillance.



Specifications

Lens

- 22X continuous-focus zoom
- **Horizontal:** 5 to 74 degrees
- **Vertical:** 4 to 59 degrees

Imaging Device

- 1/4" color CCD

Video Formats Supported

- RS170, NTSC, CCIR and PAL

Resolution

- 450 TVL Horizontal

Effective Pixels

- NTSC: 768(H) x 494(V) [380k]
- PAL: 752(H) x 582(V) [440k]

Synchronization

- Crystal lock

Sensitivity—at Lens

- Full video, AGC off, 3 lux

Signal to Noise Ratio

- 46 dB

Communications

- **Connector:** MS 14-18P
- RS-485 communications port
- RS-485 detector port
- Differential color video port

Housing & Sunshield

Image sensor and MVP sealed in a waterproof and dust-tight enclosure. Thermostatically controlled faceplate heater. Adjustable weather and sun-shield with drip guard.

Power

- **RS170/NTSC:** 24 VAC 60 Hz
- **CCIR/PAL:** 24 VAC 50 Hz
- 10 to 28 VDC
- 17 watts with heater on (25 watts with optional video compression module)

Dimensions

- **Mounting:** Standard camera bracket tilt top provided
- **Housing Enclosure:** 3.5" diameter, 15.5" long
- **Weather sunshield:** 21.3" long

Weight

- 5 lbs. 14 oz.

Ambient Temperature Limits

- -34°C to +60°C / -29°F to +140°F

Humidity Limits

- Up to 100% relative humidity, non-condensing

Options

- Video output
- Power source
- Sealed or pressurized enclosure
- Enhanced video compression capability for streaming video

Warranty

- Two-year warranty.
- Extended warranty available (5-year warranty package)

Product Support

Product support and training by team of trained Autoscope Technical Support Specialists.

Setup & Operation

Simple mouse and keyboard operations add, delete, or move a number of virtual detectors in the field of view. You can customize detector layouts to match your detection objectives for the site. Any performance monitoring can be on site or remotely over phone lines or other communications infrastructure.

Detection zones include count, presence, and incident detection. Real-time polling, dial out, or stored traffic data include: volume, occupancy, speed, density, headway, and 5 vehicle classifications either by phase or in many time intervals from 1 second to 60 minutes. Extensive Boolean logic capabilities provide flexibility in detector layouts and can help validate an event or incident alarm.

Autoscope Solo Pro II now features the Autoscope Wizard for simplified set-up and configuration of common intersection applications.



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