

# Sensors for Traffic Detection

## Autoscope<sup>®</sup> Vision Comm Manager

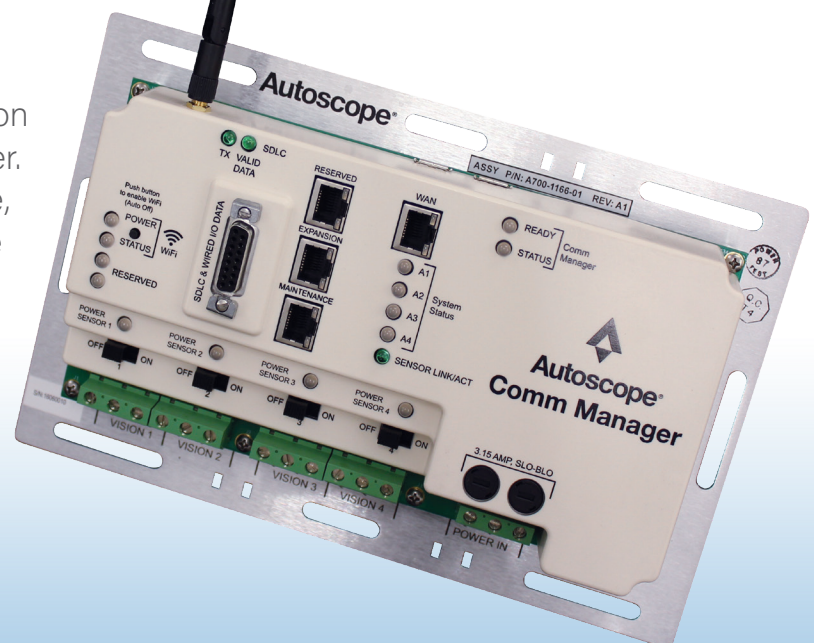
The Autoscope Vision Comm Manager is a powerful device facilitating remote and local communication to deployed Autoscope Vision sensors. The Vision Comm Manager supports 3-wire-only branch cable connections for up to 8 sensors, interfaces to the optional Vision I/O 24™ module, as well as full 10/100/1000 Ethernet communication to a local laptop or workstation at the Traffic Management Center (TMC).

The Vision Comm Manager is quick and easy to install. A single IP address is all that is required to connect the Vision Comm Manager to personnel at the TMC, enabling collection of traffic data and viewing HD video streams, individually or in a quad display. Detection zones may also be created or modified remotely with this simple network architecture.

Power and communications to Autoscope Vision is managed via the Vision Comm Manager. Vision sensors provide high-performance, high definition vehicle detection and bicycle differentiation, using state-of-the-art algorithms to improve safety, reduce vehicle emissions, and mitigate traffic congestion.

### Key Features

- Space saving support for 1-4 Vision Sensors
- Single IP Address for agency network integration
- Secure 802.11g Wi-Fi access point, password protected, 10-minutes inactivity timeout, on-off pushbutton
- 1000ft cable distances between sensor and Comm Manager
- Simultaneous support for TS1, wired I/O and TS2 SDLC Port 1





### Description

Power and communication to Vision sensors is conducted via the Vision Comm Manager. The Vision Comm Manager supports SDLC and wired I/O interface for convenient integration to TS1, 170/2070/33x and TS2 cabinets. The robust and proven broadband-over-power cable technology has a remarkable throughput of 70-90 Mb/sec. This is more than sufficient bandwidth to simultaneously transmit traffic data and multiple streams of HD video.

### Application

Autoscope Vision is capable of simultaneously satisfying multiple transportation management objectives:

- Stop bar vehicle detection
- Bicycle detection and differentiation
- Pedestrian Waiting Area Detection
- Pedestrian in Crosswalk Detection
- Advance vehicle detection up to 600 feet from Vision sensor
- Traffic data collection
- HD video surveillance

### Specifications

#### Connectors

- Input power: one (1), 3-position compression block
- Output power to Vision sensors: four (4), 3-position compression blocks (up to 2 sensors per block)
- Two (2) USB
- Four (4), 10/100/1000 Ethernet: WAN, Maintenance, Expansion, Reserved

#### Communications

- Wi-Fi 802.11(b/g/n)
- WAN Ethernet Port 10/100/1000
- Maintenance Ethernet Port 10/100/1000
- Broadband-Over-Power 70-90 Mbps

#### Environmental

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

#### Dimensions and Weight

- 1" x 7" x 2.5" (28 cm x 18 cm x 6 cm)
- 2.3lbs (1.04 kg)

#### Video Output

- Digital streaming H.264 720p, 30fps
- Variable bitrate selectable 100-5000Kbps

#### Warranty

- Three-year factory warranty
- Extended warranty packages available to six years

#### Power

- 89-265 VAC, 50/60 Hz from the transient-protected side of cabinet
- Minimum 15W typical without sensors
- 75 Watts typical with four (4) Vision sensors
- 140 Watts Maximum
- 2 spare fuses
- High-energy transient surge protection

#### Indicators

- Wi-Fi LEDs – active or inactive
- SDLC LEDs – indicate valid data
- Ethernet Port LEDs – indicate speed of network connection
- Power Sensor LED – indicate power to sensor
- Comm Manager LED - indicator for readiness and status
- System Status LED - indicating individual sensor status
- Sensor LINK/ACT LED - indicates communication between the Comm Manager and at least 1 Vision sensor

#### Regulatory

- NEMA TS2 2003 Compliant
- CE EN 55022
- CE EN 55024
- EN 61000-6-1
- ICES
- FCC Part 15, Class A

