

# Radar Sensors for Traffic Detection

## Autoscope<sup>®</sup> I/O 24 Module

### What, exactly, is the I/O 24 Module?

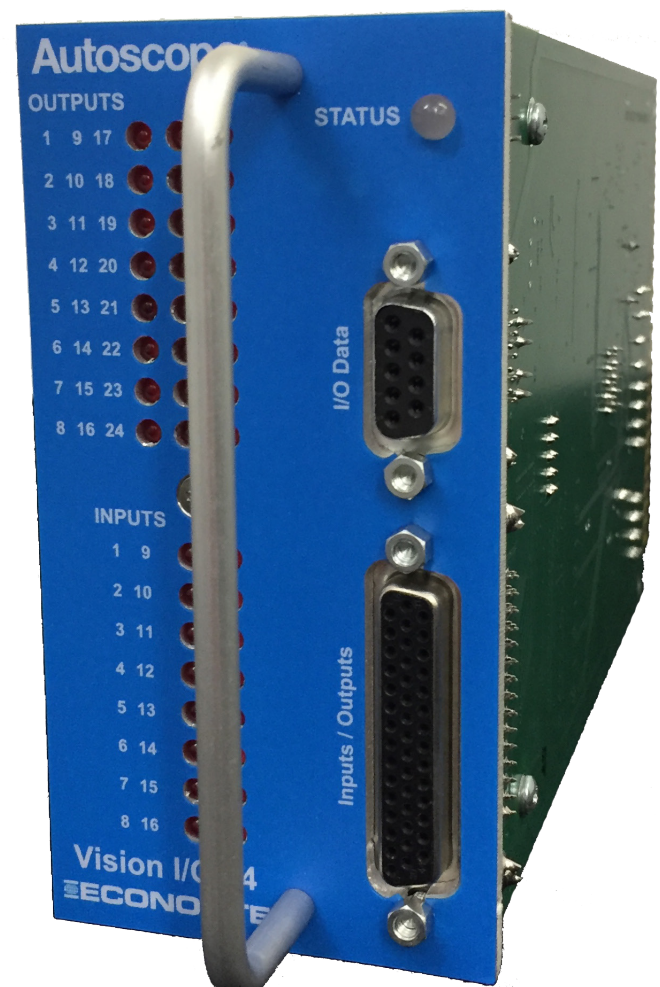
The Autoscope Vision I/O 24 module provides a simple, reliable interface between the Vision Comm Manager and any standard traffic controller via discrete I/O's to the traffic cabinet. It monitors phase colors and gathers detection data information from up to four Vision sensors. The Vision I/O 24 Module is a single card device that can be placed in a standalone enclosure or detector rack.

### Why do agencies use the I/O 24 Module?

The Vision I/O 24 provides discrete I/O's to a traffic controller for TS1 and 33x cabinet configurations that do not use SDLC communications for I/O. It can also be used to provide simultaneous discrete I/O and SDLC I/O with an available Y-Cable. The I/O 24 module is easily configured via the Vision Comm Manager™ when connected Vision sensors are powered and recognized by the Comm Manager. The I/O 24 slides neatly into rack card guides.

### How does the I/O 24 Module benefit the driving public?

As more Intelligent Transportation System programs come online, the Autoscope Vision I/O 24 offers cities the ability to significantly enhance ITS capabilities. By supporting up to four Vision sensors, the I/O 24 helps ensure that the promise of reduced congestion, shorter commute times, and increased safety are realized.





## Application

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

- Stop bar vehicle detection
- Bicycle detection and differentiation
- Advance vehicle detection up to 600 feet from Vision sensor
- Traffic data collection
- HD video surveillance

## Vision I/O 24 Module Specifications

- Connectors
  - One (1) Male 9-pin metal shell D subminiature connector with female jackscrews
  - One (1) Female 44-pin metal shell D subminiature connector with female jackscrews
- Inputs / Outputs
  - 16 Inputs
  - 24 Outputs, open collector, active low
- Indicators
  - Status LED – indicated connection to Comm Manager

- 16 Input LEDs – active or inactive
- 24 Output LEDs – active or inactive
- Environmental
  - -29° F to +165° F (-34° C to +74° C)
  - 0 to 95% relative humidity, non-condensing
- Dimensions and Weight
  - 4.5" x 2.3" x 6.9" (11.4 cm x 6 cm x 17.5 cm)
  - 0.5 lbs (0.2 kg)
- Power
  - Input 10.8 VDC min; 26.5 VDC max
  - Current Draw: 50ma per channel
  - Hot Swappable: Yes
- Warranty
  - Three-year factory warranty
  - Extended warranty packages available to six yrs.
- Regulatory
  - NEMA TS2 2003 Compliant
  - CE EN 55022
  - CE EN 55024
  - EN 61000-6-1
  - ICES
  - FCC Part 15, Class A

### I/O 24 Module

[AVIO24]  
Supports 1-4 Sensors  
(use for wired I/O or DEM144/DEM 114  
for TS1/170/2070 expansion)

Autoscope Vision  
Comm Manager  
[AVCM]  
Supports 1-4 Vision Sensors

### Traffic Cabinet

#### Cable Options

##### Wired I/O

[ASTCBL01] 12 outputs, 8 inputs  
[ASTCBL02] 24 outputs, 16 inputs  
[211-1028-501] C1-Y Cable  
[DEM144/DEM114] expansion modules  
- [211-1010-501] DEM144 to I/O 24  
- [207-1010-501] DEM144 to DEM114

##### I/O 24 Cable

[222-1004-502]  
Connects Comm Manager  
to I/O 24

##### OR

##### Comm Manager Y Cable

[222-1004-501]  
Supports both SDLC and I/O 24

