

Radar Sensors for Traffic Detection

Autoscope[®] I/O 24 Module

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

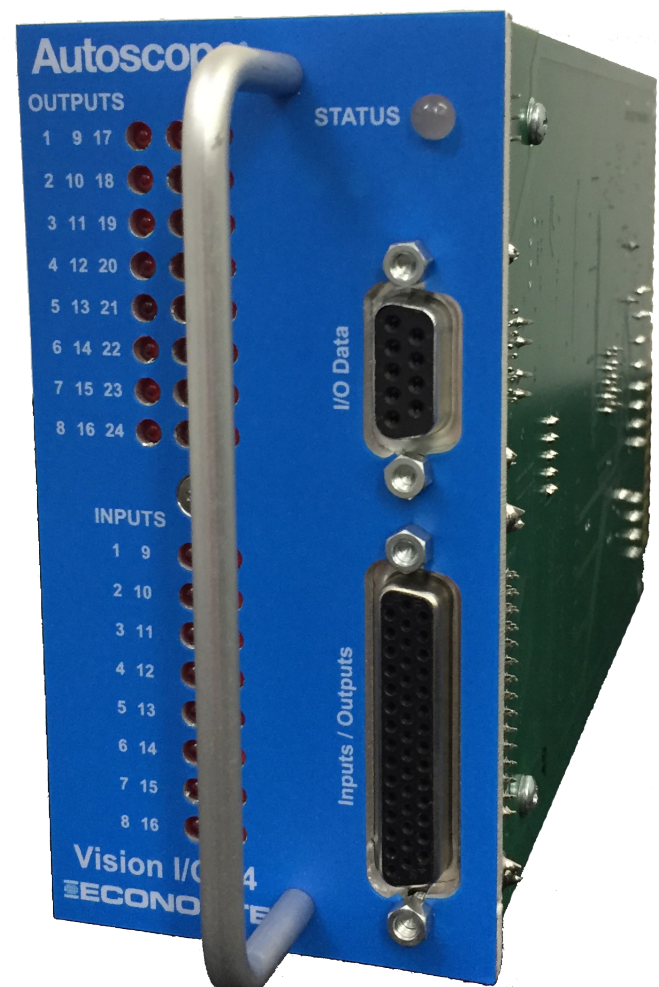
The Autoscope Vision I/O 24 module provides a simple, reliable interface between the Vision Comm Manager and any standard traffic controller via discrete I/O's to the traffic cabinet. It monitors phase colors and gathers detection data information from up to four Vision sensors. The Vision I/O 24 Module 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)

Traffic Cabinet

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

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

to 120VAC

to other Autoscope Vision sensors

