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

- Environmental
  - -29º F to +165º F (-34º C to +74º 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

[AIVCM]
Supports 1-4 Vision Sensors

Traffic Cabinet

Cable Options

Wired I/O
[AVTCBL24] 24 outputs, 16 inputs
[AVTCBL12] 12 outputs, 8 inputs

[211-1028-501] C1-Y Cable
[DEM144/DEM114] expansion modules

I/O 24 Cable
[222-1004-501]
Connects Comm Manager to I/O 24

Comm Manager Y Cable
[222-1004-502]
Supports both SDLC and I/O 24

to 120VAC

to other Autoscope Vision sensors