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

I/O 24 Module

[VIO24]
Supports 1-4 Sensors
(use for wired I/O or DEM144/DEM 114 for TS1/170/2070 expansion)

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
  - [221-1010-501] DEM144 to I/O 24
  - [207-1010-501] DEM144 to DEM114

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

or

to 120VAC

to other Autoscope Vision sensors