



## Autoscope® RackVision™ Pro 2 (RVP2)

### Description

The need for a simple, reliable and cost-effective dynamic video-based detection solution at vulnerable intersections and roadways is becoming more important in maintaining mobility and safety. As a result, agencies are leveraging the state-of-the-art video image processing and broadband communications capabilities of video detection, including *Autoscope* – a critical first step in any ITS program.

The *Autoscope RackVision Pro 2 MVP* is a dual-channel Machine Vision Processor designed to meet intersection detection objectives of vehicle detection and signal actuation in a typical traffic cabinet. This cost-effective detection solution utilizes the same algorithms that have established *Autoscope* video detection as the global leader for wide-area video vehicle detection.

The RVP2 fits into a detector rack or shelf-mount unit. Quality sources of video signal include the *Autoscope Image Sensor (AIS)* or existing CCTV cameras that meet minimum performance standards. Multi-threaded software processes video images in real-time to detect traffic. Addressing the needs of video intersection detection and signal actuation, RVP2 is a cost-effective traffic machine vision processor solution. Leveraging the same algorithms as other *Autoscope* products, RVP2 processes video images into real-time to detect traffic and provide local traffic actuation, as well as collect valuable traffic data. RVP2 supports AIS-V, as well as existing CCTV cameras to address varying traffic detection objectives and scenarios.

### Set-Up & Operation

The RVP2 detector card is easy to install/configure and adaptable to meet an agency's detection requirements. *Autoscope* Mouse & Monitor functionality quickly sets up intersection detection applications without the use of a laptop.

Simple Mouse & Monitor setup enables stop lines and advance extension detection zones to be drawn as needed. Users can also easily assign detector outputs to interface with NEMA TS1/TS2, Type 170/179 and 2070 ATC controllers.

With mouse and keyboard operations, users can backup work, troubleshoot with the operations log, and modify the detection layout with the configuration Wizard™ or other tools in the *Autoscope Toolbox*. The optional *Autoscope Access Point (TAP)* or *RackVision Terra MVP* can also assign additional detector outputs.

### Features

- Provides basic video vehicle detection for intersection stop-line and advance extension applications
- Processes input from two (2) video cameras per RVP2 unit
- Bicycle Detection
- Setup with simple Mouse & Monitor interface or configuration Wizards
- Installs in a standard detector rack or self-contained shelf-mount unit
- LED indicates status for communications and valid video sync
- IP-addressable into *Autoscope* network
- Outputs via either card-edge connector or front-panel DB15 connector
- Password protection
- Electrical and optical failsafe detector outputs
- High-energy transient protection
- Self-test on power-up
- Software installation by USB flash drive
- Comprehensive traffic data collection
- Bicycle detection