EagleVision Vehicle Detection Camera

Video Detection Systems available on the market today often require cumbersome, costly, and tedious installation with challenging setup and configuration. These systems demand a direct focus of the camera on the target area leaving no room for error. Siemens new EagleVision Video Detection system eliminates the hassle of these traditional setup methods. Simply mount the camera, aim the lens in the general target area, and connect the camera to the cabinet through a single cable. No further calibration of the camera angle is necessary.

Fine tuning of the detection area is done remotely via a computer interface, allowing you to isolate and focus on a specific section of the viewing area as desired. Even if the detection zones change, or require future adjustments, return visits to the physical location of the camera are no longer needed. Merely draw the new detection zone on the image and the EagleVision Video Detection system identifies the updated vehicle detection area.

The EagleVision Ethernet solution eliminates the need for bulky detector racks by connecting directly to an M50 or 2070 controller with a 1B card. When direct Ethernet connections are not available, or a different style controller is in use, the 10-pin wires connect directly to the Detector Input Panel. Detectors have the option of being configured for presence, count, or an enhanced directionality detection.

Remote Access via Ethernet or LAN

Each camera is connected to the cabinet or controller via a standard CAT-5 Ethernet cable. Authorized users can connect remotely to the camera from anywhere in the world where Internet access is available. A technician traveling in Tulsa, OK can easily maintain his cameras in Anaheim, CA over a secured internet connection, anywhere, never having to enter into the field to access data or reconfigure any number of units. Software or firmware upgrades may be handled remotely via the Ethernet or a LAN connection. With the EagleVision user interface you can view the camera image, configure detector zones, and monitor camera detection activity with a laptop, PC or other internet capable device.

Easy to Program

The EagleVision user interface is a Java based program featuring easy to use menus and intuitive graphic icon buttons. Cameras are up and running in three simple steps: launch the program, add the camera IP address, and draw the zones.

One Man System

Ethernet ready, advanced targeting methods, simplified user-interface, intuitive design, sophisticated detection algorithms eliminating false detection... EagleVision is truly a one-man capable solution to vehicle detection systems. EagleVision saves time and resources that other detection systems demand.

Advanced Technology

Video Detection has long been seen as a convenient, albeit less accurate alternative to traditional loop detectors. EagleVision's sophisticated technology takes advantage of a superior algorithm providing the convenience of video detection with accuracy. EagleVision utilizes color video and an intelligent system that will learn the behavior of the selected zone, adjusting for shadow or other anomalies associated with a detection environment. The EagleVision camera is capable of eight detector zones, with eight outputs. Traditional detectors cannot be viewed for potential failure or maintenance requirements; with EagleVision, your intersection check-up is just a mouse click away.

EagleVision Video Detection System

Intelligent Transportation Systems

SIEMENS

EagleVision, by Siemens

K2 Technical Specifications

Design Use
- Presence detection

Detection Zones
- 8 Zones - 6'x6' to 6'x25' nominal
- Zones/traffic may run at any angle to picture
- Directional feature to reduce detection of counterflowing traffic (user selectable)
- User-defined zone labels

Detection Logic
- Detection zones maybe logically combined (and/or) negated (not) in up to 50 steps
- Detector outputs: 8 outputs available in two simultaneous formats
- Direct wired 24V open collector to (Optional):
  - » TS-1
  - » TS-2 with BIU adapter
- TCP/IP over Ethernet to:
  - » SEPAC (no adapter required)
  - » TS-2 with compact BIU adapter
  - » TS-1, TS-2, ITS, CalTrans
- Presence mode or pulse mode with per channel selection of pulse width
- Output test feature for installation/ troubleshooting

Detector Mapping
- Any detection zone or logic result may be mapped to any detector output

Image
- 320x240 Pixel color
- Digital panning within 1280x1024 area
- 3-level step zoom (1x, 2x, 4x)
- Preset Focus
- Software configured exposure settings

Communications
- TCP/IP over 10/100 Ethernet
  - » NTP available for time synchronization
- 8-wire detector output (Optional)

Configuration Tools
- Operating System configuration and software updates via Siemens SafeSuite Web interface
- Detector configuration via EagleVision
- Java-based user interface

Operating System
- Linux 2.4

CPU
- Freescale MPC8270, 266MHz
  - » PowerPC 603e core
  - » PowerQUICC II I/O
  - » L1 cache - 16KB data/16KB instruction

Memory
- 64MB SDRAM
- 40MB Flash
- 1MB SRAM
- CF (Compact Flash) card slot

Digital Imager
- Lumenera LU170c

Sensor
- Color 1/2" CMOS, rolling shutter
  - » Pixels: 1280x1024
  - » Lens Mount: C-Mount (CS with adapter)

Power Supply
- 24 VDC - Direct Wired - CAT 5 Power

Power Consumption
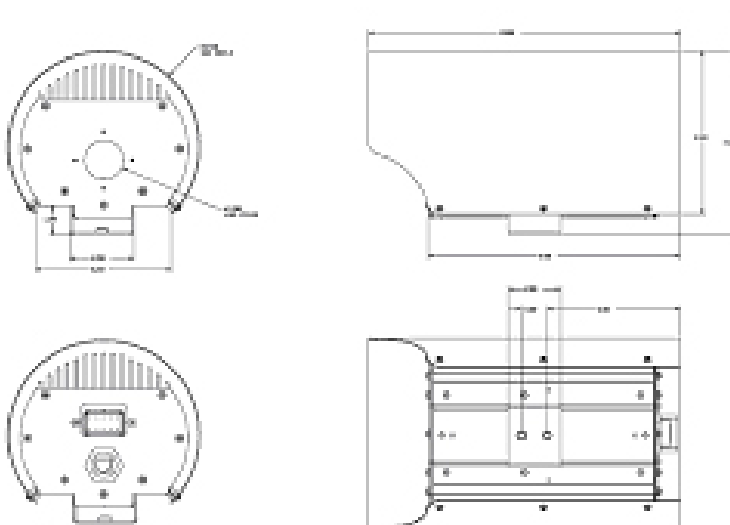- 6W typical (10W w/Heater)

NEMA Specifications
- Operable at -40C to +74C

Housing
- Aluminum Housing with Aluminum sunshield.
- Powder coated

Bracket
- Single configuration for pole or mast arm mounting
- All aluminum construction
- Powder coated

The new EagleVision video detection camera offers state-of-the-art technology that will ensure reliability and functionality to intersec-tion vehicle progression. EagleVision is the optimal answer for vehicle detection, smooth traffic operation, and a low-cost solution requiring no additional hardware or manpower to install. It is truly a 'one-man' system for all vehicle detection needs.

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