

RZ4C Color Camera

The Vantage Camera has been optimized for use in outdoor conditions specifically for the viewing of traffic flows at the intersection, on the highway, on bridges or in tunnels. The camera's image is normally adjusted to view



up to 4 or 5 lanes of traffic. From this image, the Vantage video detection processor can be configured to detect the presence, motion, speed and classification of vehicles. Other uses for video detection include: Ramp Metering, Pedestrian Detection, Red Light Enforcement as well as Bicycle Detection. It all depends on where and how you position the Vantage Camera.

The camera is virtually maintenance-free. To prevent the buildup of condensation and ice on the lens glass the camera housing is fitted with a heater that ensures a clear view at all times. We offer the Vantage Camera with a three year limited warranty.

The camera housing incorporates an adjustable mounting bracket that allows the camera to be positioned correctly. The mounting bracket is pre-drilled for easy attachment to a variety of poles and other street fixtures. All connectors for cables are located at the back of the camera housing making



installation and maintenance quick and simple.

Features

Camera

- Latest CCD sensing element and DSP Technology.
- Electronic shutter and auto iris lens.
- Auto focus with manual override.

Camera Housing

- Sealed housing to IP67 specification.
- Integrated adjustable sunshield.
- Chemically coated front glass. (Resists dust & dirt)
- Auto-sensing power supply - 115/230 VAC, 50/60 Hz.
- Internal heater with proportional power control.
- Integrated mounting bracket.
- Separate connectors for power and video.

Options

- DC power for solar or battery applications.
- 2.4 GHz wireless operation.
- Junction Box adapter for field termination.

Benefits

- Optimized for outdoor traffic situations that aids video detection.
- Connectors located on back plate simplifies cable connection.
- Proportional power controlled internal heater prevents ice and condensation resulting in improved video detection performance in adverse weather conditions.

The RZ4C camera produces color images of roadway scenes for detection of vehicle traffic. Camera is mounted tilted down 20°, or more, below horizontal to avoid direct view of sun or horizon. Usable video is produced for scenes with luminance

from 1.0 to 10,000 lux. The RX4C camera also includes automatic gain control.

Part Number 1639-10



Video

WIRELESS CAMERA



Features and Benefits

- Alternative to in-pavement “loops”
- Works with any Vantage processor
- Eliminates need for lengthy coaxial cable runs
- Eliminates need for lengthy power cable runs if Luminaire power is nearby
- Wireless video transmission to 500 feet with clear line of sight
- 1, 2 & 4 channel receivers available
- Enhanced portability and reusability
- Operates up to four separate channels in unlicensed 2.4Ghz band
- Reduced installation time compared to loops wired video detection systems
- Available in monochrome or color image
- DC option for battery/solar applications
- Wide angle option available

The flexibility and ease of use of video detection has just been enhanced! The wireless Vantage™ system offers traffic engineers a new way to implement video detection where installation of cables is not possible or desirable. Ideal for retrofitting older sites with full conduits, temporary detection in construction zones, and advanced detection applications.

Wireless video detection for construction management activities during road widening, intersection improvements, or temporary lane closures are obvious applications. Other applications that could significantly benefit from the use of wireless Vantage systems are locations where road surfaces are continually being damaged by heavy vehicles or severe weather. At these locations, permanent installations of the wireless system significantly reduce recurring maintenance costs and headaches.

Mid-block vehicle detection can also benefit from the use of Vantage wireless video detection systems by eliminating the need to install conduit and cabling from the mid-block detection location to the intersection controller cabinet.

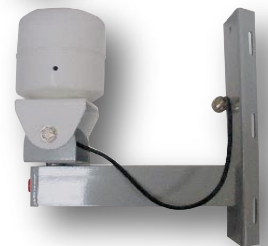


**Wireless Camera with
Integral
Transmitter Antenna
Part Number 1639-Wireless**

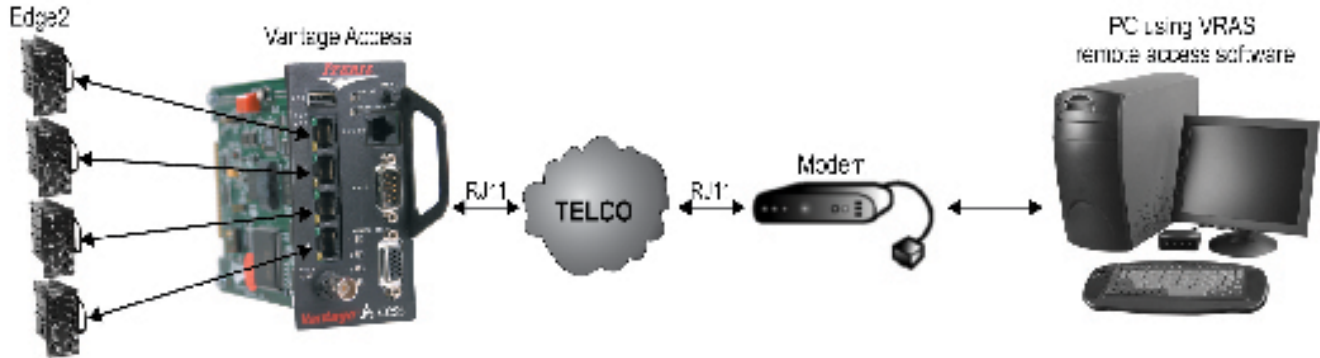


**Luminaire
Power Adaptor
Part Number
1639-LUM**

**Receiver Antenna
Part Number
1639-ANT**



ACCESS Switching Hub



This innovative and versatile unit serves as a central point of reference for the Vantage Edge2 processors, I/O modules and extension modules. Vantage Access serves as an intelligent central hub for Vantage Edge2 processors and accessories. This means that the user simply plugs the mouse, monitor, and up to four expansion modules into the Vantage Access unit, and can then switch to any of the peripheral processors without the need of switching any monitor, communication, or pointing device connections. Vantage Access is designed to accept USB compatible mice or trackball type pointing devices. Vantage Access is also equipped with a built in industrial hardened 56K modem, making it the perfect companion for integration with Vantage Remote Access Software (VRAS).

Features and Benefits

- Central switching point (for both manual and remote switching) designed specifically for the Vantage Edge2 video detection system
- Plugs into any standard rack with 12 or 24 volts DC
- Accommodates up to four video source inputs
- Accommodates up to four expansion devices
- USB mouse and trackball support
- EIA-232 serial communication port
- Built-in industrial hardened 56k modem with standard RJ-11 connector
- High intensity LED status indications
- Perfect addition for seamless VRAS integration

SPECIFICATIONS

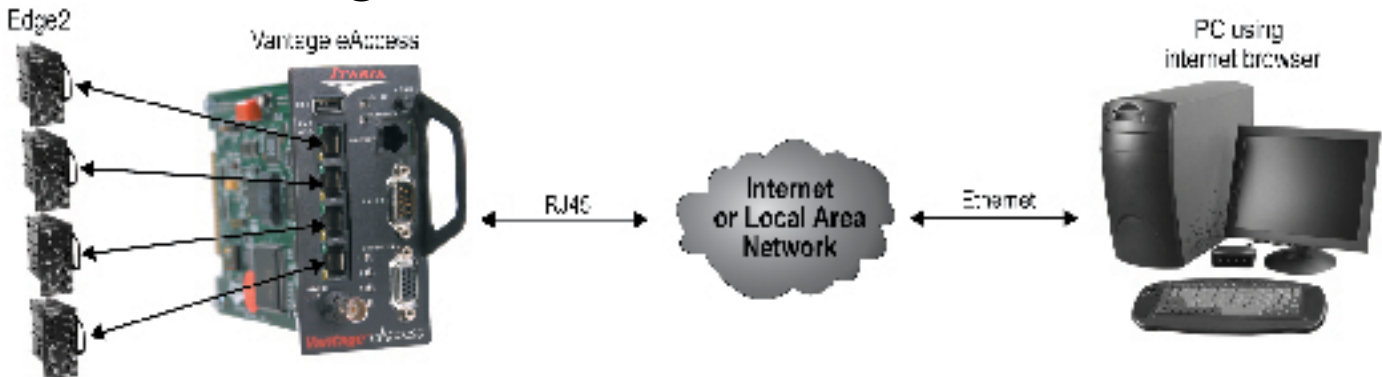
- Designed specifically for Vantage Edge2 video detection processors
- 4 BNC connectors for video input (via DB15 spider cable)
- 1 EIA-232 local access port
- USB Mouse port
- 1 BNC composite video out connector
- 7.0" long, 4.5" high, 2.3" wide (17.8 cm long, 11.4 cm high, 5.8 cm wide) 0.64 lbs. (0.29 kg)
- Temperature : -35° F to +165° F (-37° C to +74° C) 0% to 95% non-condensing
- Vibration: 0.5G, 3 axes, 5-30 Hz
- Shock: 10G in all 3 axes
- 12/24 VDC (500/260 milliamps)

Part Number 1639-ACCESS



Video

eACCESS Switching Hub



eAccess brings Ethernet communication to the Edge2 family of video detection products. Capable of supporting industry standard 10/100Base-T, Vantage eAccess enables remote access to Vantage video detection processors via true 802.3 compliant TCP/IP interface. Access to Vantage video detection processors can now be accomplished over cable modem, DSL modem, or local area networks. Vantage eAccess Ethernet port enables MPEG-2 streaming video to be viewed on a personal computer using widely available internet browsers. Remote configuration and diagnostics can also be conducted using the browser-based remote access firmware embedded within Vantage eAccess.

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Part Number 1639-eACCESS



EDGE2 Processor – 1-, 2- and 4-Channel

The Vantage Edge2 processor is a key component in vehicle detection systems using video image analysis. The Edge2 plugs into all standard Type 170 input files, TS-1, and TS-2 card detector racks.

Features

- Available in single or dual video input configurations
- Extension modules in 2- or 4-channel configurations
- Uses only one edge card connector for use in 4-channel input files
- Extension modules programmable from processor module, allowing remote programming of extension modules
- Uses delay/extend signals from the input file
- High intensity LED indicators for ease of viewing
- Use of Vantage Access and eAccess accessories for single point user interface or remote access

The 4-channel Edge2 represents the latest advance in Vantage Edge2 processor technology. This new processor takes a quantum industry leap, offering a single processor module that accommodates four simultaneous camera video sources. The 4-channel Edge2 is cost effective, rich with features and functions and it saves valuable rack space. Just plug the processor module into the detector rack or input file, add additional expansion modules when required, and you have a complete and robust video detection system. This new module is also compatible with other Edge2 processor accessories and continues in the proud "ease of use" tradition.



Edge 2
Single or Dual Channel Processor



Edge 2
4-Channel Processor

SPECIFICATIONS AND BENEFITS

- Central point system integration
- Easy to use menu interface, no computer required to setup or maintain the system
- Easily installed, minimizes the need for lane closures
- Compatible with our wired and wireless video detection cameras
- Up to 24 outputs per video input (using Extension Modules)
- Use of FLASH memory enables the processor to be programmed to run different applications
- FLASH memory has been increased for program and data storage
- Compatibility with 12 VDC or 24 VDC input files

Part Number Edge 2 Single - 1639-11

Part Number Edge 2 Dual - 1639-12

Part Number Edge 2 4 Channel - 1639-24

HI-RES COLOR MONITOR

Conveniently mounts in the cabinet on a shelf for viewing images sent from detection cameras. This monitor makes camera aiming and monitoring quick and easy.

- Resolution: 380 lines
- Band width: 100Hz-10MHz (-3db)
- Input signal: 0.5~1.0 Vp-p composite
- Video gain: 30db
- AC power source: 90~260V 60Hz/40W/NTSC/Pal
- Dimensions: 8.66" x 9.05" x 11.81"
- Shipping weight: 17.6 lbs.

Part Number 2690-7

