

Roadway Sensors

VersiCam™

[Versatility with value]

Introducing a new concept in Vantage video detection, VersiCam is an integrated machine vision processor and camera solution. Designed for small or semi-actuated intersections, VersiCam offers the same high performance Vantage video detection in a low-cost package.

VersiCam is a versatile, high resolution video traffic camera specially optimized for machine vision processor technology. The camera offers remote zoom and focus functions to simplify setup and includes a high sensitivity color imager (CCD) to ensure accurate vehicle detection in all lighting conditions.

Using industry-standard network communications “3-pair” cabling, significant savings can be realized by eliminating expensive coaxial and power cable runs. The VersiCam solution includes the Interface Communication Controller (ICC) that resides in the roadside cabinet. The ICC installs into a standard 170 input file or NEMA TS-1/ TS-2 detector racks and has a built-in power supply to power the camera. All user interface functions are performed through the ICC such as virtual zone placement, detector output assignment and video monitoring.

VersiCam compliments the existing Vantage range of Edge2 video detection products by providing entry-level video detection and output presence detection at a cost efficient price. Your investment is future-proofed by VersiCam’s flexible design that can support simple firmware upgrades.

The Iteris VersiCam is a complete video vehicle detection solution that is a cost effective replacement to inductive loops and other sensor technologies for many smaller intersections. Other applications include advance detection, highway, ramp metering, and construction-work zones.



Features

- Camera
 - Color image sensor
 - 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
 - Internal heater with proportional power control
 - Integrated mounting bracket
- Camera Processor
 - Vantage video detection algorithms
 - Stores 3 detector configurations
 - Setup program and menu stored in camera
 - Only a mouse and monitor required to configure all functions
- Interface Communications Controller
 - 6 virtual detection zones
 - 2 outputs (TS-1)
 - USB mouse control
 - RS-232 serial port
 - RS-485 serial intercommunication
 - Status LED and detector output switches
 - Full motion video output for setup and monitoring

Installation and Configuration

VersiCam has been designed to reduce the time needed to install and configure the unit on a pole or other fixture. The camera housing is supplied sealed from the factory with a snap-on cable connector cup on the rear edge. Once mounted, the camera needs to be positioned and oriented to achieve the correct field of view. Virtual zone and output setup is performed using a mouse or other pointing device in the same way as existing Edge2 products.



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- ICC Card – fits in all 170 input file, NEMA TS-1 and TS-2 cabinets
- ICC Shelf-mount - available for non-rack applications
- Bracket – flexible and adaptable camera mounting bracket
- Cabinet set-up using monitor and mouse

Benefits

- Optimized for outdoor traffic situations that aids video detection
- Integrated mounting brackets reduce installation and setup time
- Connectors located on back faceplate simplifies cable connection
- Proportional power-controlled internal heater prevents ice and condensation resulting in improved video detection performance in adverse weather conditions.

Technical Specifications

	VersiCam	ICC-Module	ICC-Shelf Mount
Features	<ul style="list-style-type: none"> • Color imager • 768 x 494 effective pixels • 470 TV Lines • Automatic white balance • >50dB S/N ratio • 0.1 lux capable 	<ul style="list-style-type: none"> • 170 input file compatible • TS-1 and TS-2 compatible 	<ul style="list-style-type: none"> • Compact enclosure
Lens	Focal length and focus adjustable for horizontal FOV ranging from 5.4° wide to 50.7° wide.		
Connections	Pluggable terminal–6 way • 2 x DC Power • 2 x Differential video • 2 x Differential control	Connector (6-way) for camera & 3-way for optional AC power input BNC video output, NTSC composite 1V p-p@75 Ohm USB mouse port RS-232 serial port	Connector (6-way) for camera & 3-way for optional AC power input BNC video output, NTSC composite 1V p-p@75 Ohm USB mouse port RS-232 serial port
Mechanical			
Dimensions	13.5" (L) x 4" (D) 34.3cm x 10.2cm Without bracket	7" (L) x 4.5" (H) x 2.31" (W) 17.78cm x 11.43cm x 5.85cm	8.3" (L) x 5" (H) x 2.8" (W) 21cm x 12.7cm x 7.2cm
Weight	4.25lb (1.92kg)	1.05lbs /0.48Kgs	2.40lbs /1.09Kg
Environment			
Temperature	-31F to +140F (-35C to +60C)	-35F to +165F (-37C to +74C)	-35F to +165F (-37C to +74C)
Humidity	0 – 100% relative	0 – 95% relative Non-condensing	0 – 95% relative Non-condensing
Vibration	0.5G, 3 axes, 5-30Hz	0.5G, 3 axes, 5-30Hz	0.5G, 3 axes, 5-30Hz
Shock	10G, all 3 axes	10G, all 3 axes	10G, all 3 axes
Power			
Input	48VDC 22W typical	100-240VAC 50/60Hz 0.7A	100-240VAC 50/60Hz 0.7A
Output	Differential video RS-485 serial	48VDC 27W typical	48VDC 27W typical



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