iteris®

Vantage Vector®
The power of video and radar sensor fusion
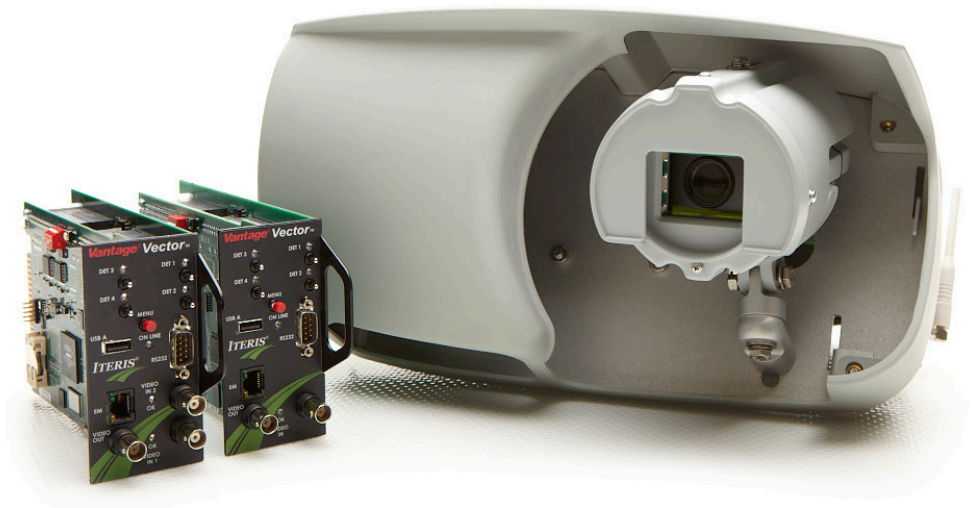
Benefits of the Vantage Vector

Dilemma zone detection

Includes SmartCycle® technology

Enhanced data information includes vehicle volume, speed, and distance

The proven power of video...and more

Vantage Vector® is an all-in-one vehicle detection sensor with a wide range of capabilities: stop bar detection, advanced-zone detection, and sensing that enables advanced safety and adaptive control applications.

It includes all the proven benefits of Iteris video detection: high accuracy, high availability, the video image for remote viewing, no trenching or pavement cutting for installation, and SmartCycle® technology.

Enhanced dilemma-zone precision

Vantage Vector offers high precision for dilemma zone detection by integrating the video field-of-view with radar sensing. Enhanced information includes the number of vehicles, speed, and distance in user configurable zones, that can be used for special applications.

Extended range for higher speed approaches

The extended range of the advanced zone includes enhanced count, speed, and occupancy (CSO) measurements, where data from advanced detection zones is desired.

Vantage Vector®

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Richer data enabling new applications

Vantage Vector enables an exciting new range of speed related intersection safety functions with the availability of vehicle location and speed data.

SPECIFICATIONS

Vector Sensor

Electrical	110/220 VAC, 10W (typical), 20W (peak)
Physical	Weight – 10lbs (4.55 kg)
	Size – 14"H x 15"W x 17"D
	(35.6cm x 38.1 cm x 43.2 cm)
	EPA – Less than 1.5 sq.
	IP67 rated enclosure
Operating Temp.	-35°F to +165°F (-37°C to +74°C)
Humidity	0 - 100% RH
Vibration	0.5G, 3 axes, 5-30Hz
Shock	10G in all 3 axes
Regulatory	FCC part 15, Class A
	NEMA TS-2 compliant
Radar	Frequency – 24GHz (K-band)
	Accuracy – Speed 0 to 150 mph ± 1 mph
	(240 kph ± 1.5 kph)
	Tracked objects – Up to 20
	Detection – Across 4 lanes of traffic
Image Sensor	1/4" CCD
	380,000 effective pixels
	550 Horizontal TV lines
	> 50 dB S/N ratio
	1.0 lux minimum illumination
	2D/3D Noise Reduction
	Automatic white balance
	1 Vpp (sync negative)
	12x optical zoom lens
	f=3.7 mm (wide) to 44.4 mm (tele)
Communications	Via data embedded on video signal
Warranty	3 years limited warranty

Vector Processor

Electrical	12 or 24 VDC, 7W maximum
	490mA @ 12 VDC
	280mA @ 24 VDC
Physical	Weight - 0.8lb (.363Kg)
	Size - 7" L x 4.5" H x 2.31" W
	(17.78cm x 11.43cm x 5.86cm)
Operating Temp.	-35°F to +165°F (-37°C to +74°C)
Humidity	0 - 95% RH non-condensing
Vibration	0.5G, 3 axes, 5-30Hz
Shock	10G in all 3 axes
Regulatory	FCC part 15, Class A
	NEMA TS-2 compliant
Detector I/O	Outputs (open collector +24VDC nominal 50mA)
	4 outputs on rear edge of module
	4 inputs on rear edge of module
	24 detection zones per camera channel
	24 total output channels per video input using
	extension modules
Video	NTSC or PAL, 75 Ohm 1 Vpp
	1 input channel – single BNC
	2 input channel – dual BNC
	1 output channel – single BNC
Status Indicators	4 LEDs indicate output detection state
	4 LEDs indicate video source
Communications	EIA-232 serial port
	USB port for pointer control or firmware upgrade
Warranty	3 years limited warranty

TÜV CERT
ISO 9001:2008

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