

# Edge<sup>®</sup> 2 with Vantage Vector<sup>®</sup>

The power of video and radar sensor fusion



Dilemma zone detection



Enhanced data information includes vehicle volume, speed and distance



Single-sensor for advanced detection

## The proven power of video ... and more

Vantage Vector<sup>®</sup> 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.

Vector includes all of the proven benefits of Iteris video detection:

- High Accuracy
- High-resolution video image for remote viewing
- No trenching or pavement cutting for installation
- SmartCycle<sup>®</sup> technology for bicycle differentiation
- PedTrax<sup>™</sup> technology for pedestrian tracking
- VantageLive!<sup>™</sup> compatibility

## 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.

**iteris<sup>®</sup>**

## More Benefits

- Performs in the most challenging lighting conditions
- Advanced self-cleaning camera lens ensures lower maintenance
- Provides for advanced intersection safety features such as Dilemma Zone and all Red Protect with compatible signal controllers
- Advanced radar detection to over 500 feet from sensor head



Vector on  
Edge2 Platform

## Specifications

### VECTOR SENSOR

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)
Lens Heater	Indium Tin Oxide, proportional power
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
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
Communications	Via data embedded on video signal
Warranty	3 years limited warranty

### VECTOR ON EDGE 2 PLATFORM

Electrical	110/220 VAC, 10W (typical), 20W (peak)
Radar	Tracked Objects – up to 20
Comms	Via data embedded on video signal
Connections	Terminal Block
Setup/Config	Mouse & Monitor or VRAS
Processor	Edge2



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