



## Vantage Radius™

# Forward-firing radar sensing technology for stop bar detection

Included with the Vantage Radius system



Forward-fire radar collects accurate vehicle speeds



Surveillance camera ensures vehicles are detected and the intersection is operating correctly



Automatic traffic counting



### Radar presence detection

Vantage Radius™ is the newest sensor in the Iteris Vantage family that utilizes radar technology for vehicle detection at the intersection stop bar. Radar has long been a part of the Iteris product line with the Vantage Vector® hybrid detector, and Vantage Radius expands on that technology.

Using radar ensures that Vantage Radius can collect accurate vehicle speeds as they approach the intersection, and with superior detection algorithms from Iteris, the sensor ensures vehicles are detected and the intersection is operating correctly. The system is built on the simple-to-use VantageNext® platform, and continues the Iteris tradition of ease of installation and configuration.

### Audit your intersection with live video stream

Included with the Vantage Radius sensor is a surveillance camera that can stream live video back to a central management location, providing agencies with the ability to view the operation of their intersection. This video stream can also be used in place of other surveillance cameras to stream live video to your traffic management center wall and mobile applications from Iteris.

# Vantage Radius™

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## Benefits

- Low lifecycle cost
- Easy to install, configure, and maintain
- Remote intersection viewing
- Visual feedback to ensure sensor is operational
- Low power operation

## SPECIFICATIONS

### Sensor Head

<b>Weight</b>	3lbs (1.4kgs)
<b>Sensor Dimensions</b>	6.5"W x 5.5"T x 8.5"D (165mm x 140mm x 216mm)
<b>Environmental</b>	IP67 rated enclosure

### Radar Sensor

<b>Frequency</b>	24 GHz (K-band)
<b>Accuracy</b>	±1%
<b>Tracked Objects</b>	64
<b>Detection</b>	Across 10 lanes of traffic
<b>Distance</b>	343 feet (100 m)
<b>Coverage Angle</b>	+/- 35 degrees
<b>Power Consumption</b>	48VDC, 5W max.
<b>Connections</b>	Terminal Block

### Camera

<b>Sensor</b>	1/3" CMOS, 1.3MP, WDR
<b>Lens</b>	Fixed Zoom lens, 70° viewing angle
<b>Minimum Illumination</b>	0.1 Lux

### Processor

<b>Power</b>	12 or 24 VDC, 5W typical
<b>Video Output</b>	Compressed Digital Stream
<b>Detector I/O</b>	4 open-collector outputs and 4 inputs per processor card
	28 total outputs /64 total inputs using extension modules
<b>Status Indicators</b>	Primary power
	Video input status
	Detection outputs
<b>Communications</b>	Ethernet

### Central Control Unit

<b>Power</b>	110/220 VAC 50/60Hz 20W max.
<b>Communications</b>	Ethernet
	USB Type A (x2)
	Wi-Fi
	SDLC communications
<b>General</b>	
<b>Op. Temperature</b>	-35°F to +165°F (34°C to +74°C)
<b>Humidity</b>	0% to 95% non-condensing
<b>Vibration</b>	0.5G, 3 axes, 5-30Hz
<b>Shock</b>	10G in all 3 axes
<b>Regulatory</b>	NEMA TS-2 compliant
	FCC part 15, Class A
<b>Warranty</b>	3 years limited warranty



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