



VantageRadius™

Radar technology and streaming video for stop bar detection

Included with the VantageRadius system



Forward-fire radar for accurate vehicle detection



High resolution video streaming for intersection monitoring



Automated data collection



Radar presence detection

VantageRadius™ is the newest sensor in the Iteris Vantage family that utilizes radar technology for vehicle detection at the intersection stop bar. VantageRadius builds on the success of the Vantage Vector hybrid detector offering a combination of radar and video designed specifically for stop bar detection at the intersection.

Using radar and Iteris' enhanced detection algorithms ensures that VantageRadius can accurately detect vehicles and vehicle speeds as they approach the intersection, enabling the intersection to operate at its peak efficiency. The system is built on the simple-to-use Vantage Next® platform and continues the Iteris tradition of ease of installation and simple configuration.

Monitor your intersection with live video stream

Included with the VantageRadius sensor is a high resolution digital camera that streams live video back to a central management location, providing agencies with the ability to monitor and take action on 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 video wall and mobile applications from Iteris.

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Benefits

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

SPECIFICATIONS

Sensor Head

Weight 3lbs (1.4kgs)

Sensor Dimensions 6.5"W x 5.5"T x 8.5"D (165mm x 140mm x 216mm)

Environmental IP67 rated enclosure

Radar Sensor

Frequency 24 GHz (K-band)

Tracked Objects 64

Detection Across 10 lanes of traffic

Distance 300+ feet (90 m)

Coverage Angle +/- 35 degrees

Power Consumption 48VDC, 5W max.

Connections Terminal Block

Processor

Power 12 or 24 VDC, 5W typical

Video Output Compressed Digital Stream

Detector I/O 4 open-collector outputs and 4 inputs per

Processor card

12 or 24 VDC, 5W typical

64 total outputs /64 total inputs using

Extension modules

Status Indicators Primary power

Video input status

Detection outputs

Communications Ethernet

Camera

Sensor 1/3" CMOS, 1.3MP, WDR

Lens Fixed Zoom lens, 70° viewing angle

Minimum Illumination 0.1 Lux

Central Control Unit

Power 110/220 VAC 50/60Hz 20W max.

Communications Ethernet

USB Type A (x2)

Wi-Fi

SDLC communications

EM Bus

General

Op. Temperature -35°F to +165°F (34°C to +74°C)

Humidity 0% to 95% non-condensing

Vibration 0.5G, 3 axes, 5-30Hz

Shock 10G in all 3 axes

Regulatory NEMA TS-2 compliant

FCC part 15, Class A

Warranty 3 years limited warranty



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