iteris®

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.

VantageRadius™

Radar technology and streaming video for stop bar detection

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

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

Camera

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

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
	64 total outputs /64 total inputs using
	Extension modules
Status Indicators	Primary power
	Video input status
	Detection outputs
Communications	Ethernet

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

TÜV CERT
ISO 9001:2008

iteris®