VantageRadius+®

Radar technology and streaming video for stop bar and advance detection

Forward-fire radar for accurate vehicle detection range up to 600 feet – eliminating occlusion

High resolution video streaming for intersection monitoring

Detection in any weather condition

4D / HD radar presence detection with choice of two sensor types

The VantageRadius® system has a choice of two sensor types – the VantageRadius sensor head, designed specifically for stop bar detection at the intersection, and the VantageRadius+ sensor head with the same stop bar detection capabilities but with added advance detection.

The VantageRadius and VantageRadius+ sensor heads can be installed together at a single intersection allowing for flexibility in designing the right detection for specific traffic engineering needs. VantageRadius and VantageRadius+ sensor heads utilize the latest 4D, high-resolution radar technology, incorporating distance, speed, angle and height measurements to accurately detect vehicles approaching the intersection in any weather condition.

State-of-the-art radar and enhanced detection algorithms allow VantageRadius to accurately detect vehicles and speeds as they approach the intersection, enabling the intersection to operate at 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

The VantageRadius and VantageRadius+ sensors include an integrated high-resolution digital camera to stream 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 replace or augment existing surveillance cameras to view live video on a traffic management center video wall or the Iteris Video Viewer mobile application.

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VantageRadius Setup Tool

Benefits

- 32 detection zones
- Up to 64 outputs
- Low life cycle cost- single Cat5e/Cat6e sensor cable
- Easy to install, configure, and maintain
- Easily viewable on Iteris Video Viewer mobile application or on TMC video wall
- Integrated video validates detection performance
- 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
Distance	325 feet (90 m) VantageRadius Sensor Head
	600 feet (170 m) VantageRadius+ Sensor Head
Accuracy	Speed 0-150 mph +/- 1 mph
	Speed 0-240 kph +/- 1.5 kph
Power Consumption	48VDC, 5W max.
Connections	Terminal Block, RJ-45 Bulkhead

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

19" RACK MOUNT CCU

Power	110/220 60/50 Hz 20 W Max
Dimensions	19"L x 8.75"D x 1.75"H (483mm L x 222mm D x 45mm H)
Weight	3.9 lb (1.77kg)
Configurations	Up to 4 sensors, processors required

NEMA SHELF MOUNT CCU

Power	48VDC @ 120W
External Power Supply	DIN Rail 110-240VAC
Dimensions	4" L x 10.5" D x 10.5" H (102mm L x 267mm D x 267mm H)
Weight	6lbs (2.72kgs)
Configurations	Up to 4 sensors, processors required
	TS2; 2 sensor or 4 sensors, no processors required
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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