

# Roadway Sensors

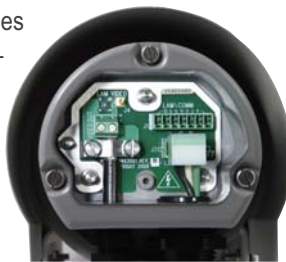
## RZ-4 Advanced™ WDR

*[Advanced video detection enhanced with Wide Dynamic Range Technology]*

The RZ-4 Advanced WDR (RZ-4 AWDR) is Iteris' premium video detection camera. Optimized for traffic video detection, the RZ-4 AWDR combines Iteris' best-in-class all-weather performance video detection with Wide Dynamic Range (WDR) technology – using the advanced imager technology to handle extremes in light and dark and severe glare conditions. In harsh backlit conditions, vehicles can be detected with >100dB of dynamic range; the camera can handle the most complicated scene. The RZ-4 AWDR's simple installation, backward compatibility, and the power to adjust the camera from the cabinet provides an advanced, easy-to-use solution for video vehicle detection.

The RZ-4 AWDR detects vehicles in any lighting and weather conditions. In contrast to other CCTV type cameras, the RZ-4 AWDR delivers a video signal that is optimized for processing by the Vantage video detection systems.

Using 'quick-click' connectors, the RZ-4 AWDR streamlines the installation process. No crimping tools are required – only wire stripping tools and a screwdriver are needed to install and terminate the camera cables. In addition, the RZ-4 AWDR is backwards compatible with existing cameras in the field. Simply cut the existing cables and connectors, strip the power and coax cables, terminate with a standard screwdriver, and click the connector into the back of the RZ-4 Advanced camera.



The back of RZ-4 Advanced

The RZ-4 AWDR camera also gives technicians the option to set up the field of view (FOV) from the bucket truck or from the ground at the cabinet. Technicians can use Iteris' Lens Adjustment Module (LAM) with an adaptor harness to setup and configure the camera at the mounting point OR use an adaptor box connected to your existing LAM to set up and configure the camera FOV from the ground.

RZ-4 AWDR's camera assembly is sealed in a weather-tight enclosure specifically designed for outdoor use. To prevent sun glare and to protect the housing from the weather elements, the RZ-4 AWDR is fitted with a moveable sunshield to allow the camera to be pointed in any direction. The sunshield extends beyond the front of the camera housing to protect the housing glass from rain and glare that could hinder the view of the camera. Also, to prevent the buildup of condensation or ice on the lens glass, the camera housing is fitted with an advanced heater that ensures a clear view at all times.



### Benefits

- Specifically designed for vehicle detection applications
- Optimized to work with Iteris' advanced detection algorithms
- Improved color and clarity of the video image, ideal for connection to an EdgeConnect™
- Quick-click connectors and adjustable camera mount streamline installation and minimize setup time – **no crimping tools required!**
- Set up and configure at the camera or from the ground
- Cable termination located at the rear of the camera simplifies cable connection
- Performs in the most challenging lighting conditions
- Advanced heater enables optimal video detection performance in adverse weather conditions.



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## Features

- Camera
  - Latest color CCD sensing element and DSP technology
  - Wide Dynamic Range technology
  - Electronic shutter and auto iris lens
  - Auto focus with manual override
  - 27x zoom lens
  - Full motion, 30 fps NTSC video
- Camera Housing
  - Sealed housing to IP67 specification
  - Integrated adjustable sunshield
  - Auto-sensing power supply – 115/240 VAC 50/60 Hz
  - Internal heater with proportional power control
  - Adjustable mounting saddle

## Vantage Family of Products

- Machine Vision Processor modules
- Input and Output Extension modules
- Communications modules
- Video detector rack systems

The RZ-4 AWDR camera produces color images of roadway scenes for detection of vehicle traffic. The camera should be mounted tilted down 20° or more below horizontal to avoid direct view of the sun or horizon.

### Vantage LAM – Rugged, field proven

The LAM (Lens Adjustment Module) is an easy to use handheld device that allows field adjustment of the camera settings. The unit is available in NTSC or PAL format and can be used with or without a monitor.

*No laptop required for set up.*



## Technical Specifications

<b>Imager</b>	<ul style="list-style-type: none"> <li>• 811x508 effective pixels</li> <li>• 540 TV lines minimum</li> <li>• Automatic white balance</li> <li>• &gt;50 dB S/N ratio</li> <li>• Dynamic range &gt;100 dB</li> <li>• .003 lux capable</li> </ul>
<b>Lens</b>	Focal length and focus adjustable at the rear of housing for a horizontal field of view ranging from 2.3° tele to 58° wide
<b>Focus</b>	Adjustable/auto focus
<b>Connections</b>	Terminal block type connection
<b>Physical</b>	
Dimensions	17" (43.2cm) long x 5" (12.7cm) diameter (without mounting bracket)
Weight	5.7 pounds (2.6 Kg), including camera, lens, housing, sunshield, and mounting bracket
<b>Environment</b>	
Temperature	-31° F to +140° F (-35° C to +60° C)
Humidity	0% to 100%
Vibration	0.5G, 3 axes, 5-30 Hz
<b>Power</b>	
Standard	115/230 VAC (25W max.) 50/60 Hz
Heater	Indium Tin Oxide, proportional power



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