

Rialto™ R-Series IP and Analog Video Analytics Appliance

AVIGILON

Award-Winning Video Analytics For IP, Analog & Thermal Security Cameras

The Rialto™ R-Series 1U rack-mount analytics appliance analyzes and records up to 16 security cameras per unit. Letting you build it your way, it is configurable with IP and analog modules.

There is no complicated per camera license fee or registration process. The R-Series is designed to be easily installed and retrofitted to existing or new camera deployments. Industry leading pattern based video analytics deliver real-time analysis and alarms to ensure your team maintains full situational awareness.



Intelligent Video Analytics

Avigilon's field proven video analytics classify people and vehicles while eliminating normal scene activity such as moving trees, leaves, shadows, or reflections from water or glass. Advanced pattern based analytics detect, track and classify activities of interest. Even in the most challenging outdoor environments customers experience extremely low false positive rates while receiving instant notification when interesting activity occurs. Additionally, the Rialto appliance's advanced self-learning technology continuously improves the system's performance over time.

The R-Series supports full 30 fps 1080p (1920 x 1080) video. Objects are detected at up to 200 ft for D1 and 500 ft for 1080p resolutions cameras. The R-Series also supports thermal cameras for critical perimeter protection requirements for a maximum range up to 2000 ft. Detection range performance are camera, lens, and lighting dependent.

Instant Notification

Within seconds of a suspect triggering a user defined analytics rule, an instant notification is sent to your security personnel's workstation. Officers can view live video and use audio talk down directly from their PC.

Fast Install

The R-Series is easy to use and install. Simply connect the R-Series to your network and add or set up your cameras. It's ready to use right out of the box. IP cameras communicate with the R-Series via the network; analog cameras are connected directly via BNC ports on the back of each analog blade. Self-learning and an intuitive rules interface make it straightforward to integrate our award winning analytics with either your existing cameras and VMS system or as a stand-alone system.

Optimized Bandwidth & Storage

Like all Avigilon devices, the Rialto R-Series appliance is designed for optimal network bandwidth and storage usage – the R-Series includes two 1 TB 3.5” hot swappable HDDs for local storage.

The R-Series supports Triple Stream Encoding - an intelligent recording stream, which varies compression quality and frame rate, based on whether or not the video contains an event that the user is interested in. A low bandwidth network stream - allows the user to view live video across low bandwidth networks (i.e. 3G/4G cellular networks) and a mobile MJPEG Stream – allows easy decoding and display on mobile devices.

Modular Design

The R-Series chassis is a true modular design enabling you to build it your way. Each chassis can support any mix of up to 4 analog and IP analytics processing blades.

Rialto R-Series Analytics Bridge Specifications

VIDEO ANALYTICS RULES

People or vehicle moving in an area
People or vehicle crossing a beam
People or vehicle loitering in an area
Person or vehicle stopped
Dwell time
Person or vehicle enters/leaves an area
Person or vehicle moving in a prohibited direction of travel
Too many or too few persons in a secured area

VIDEO ANALYTICS SUPPORT

Advanced Video Pattern Detection

ANALOG ANALYTICS MODULE

Supports D1 resolution at 30fps
Works with color, B/W, Day/Night and thermal cameras with NTSC/PAL outputs Supports PTZ control via RS-485 bus, PTZ analytics work when PTZ is in home position, PTZ control is handled by operator
(2) Audio inputs
(2) Audio outputs
(4) TTL inputs
(4) Open-collector outputs
(1) Relay output (500ma max)

IP ANALYTICS MODULE

Supports D1 and 1080p (1920 x 1080) resolutions at 30fps utilizing RTSP H.264 video streaming
Works with color, B/W or thermal images
(2) Audio inputs (line-level)
(2) Audio outputs (line-level)
(4) TTL inputs
(4) Open-collector outputs
(1) Relay output (500ma max)

ENCODER DIMENSIONS, WEIGHT, POWER, ENVIRONMENTAL

17.3 in/440mm Wide, 1.7 in/43.8mm High, 15.8 in/401mm Deep (includes connections)
20 lbs/9 kg (fully populated chassis)
120v 60hz / 220v 50hz AC power
Typical power consumption for fully loaded chassis: 100W
32°F - 122°F (0°C - 50°C) operating temp, 20-80% RH (non-condensing)



COMPATIBLE AVIGILON CAMERAS

Resolution 1, 1.3 and 2 MP	HD Dome cameras
HD Cameras	HD Micro Dome cameras
HD Bullet cameras	

NETWORKING & COMMUNICATIONS

(1) GigE port for standard communications
(1) 10/100T port maintenance interface
HTTP/HTTPS for standard communications
RTSP video streaming over TCP/UDP
NTP for time synchronization

ORDERING INFORMATION

VAA-1U-2TB	Rialto™ R-Series system 1U rack-mount analytics appliance with 2 TB of hard disk drive storage
VAA-14-1U	Rialto™ R-Series analytics appliance module, 4 channel IP digital encoder
VAA-A4-1U	Rialto™ R-Series analytics appliance module, 4 channel analog encoder
VAA-1USHLF	Rialto™ R-Series rack-mount shelf