

# Rialto™ I4

## 4 Channel IP Analytic Appliance

AVIGILON

### Award-winning video analytics for fixed security cameras

The Rialto™ I4 analytic appliance provides a cost-effective way to easily add video analytics to IP video surveillance systems. Analyze and record up to 4 Standard Definition or 2 High Definition IP security cameras per unit. The high density, small footprint makes it easy to deploy and scale, and there are no complicated per camera license fees or registration processes. The I4 is a fast and easy way to add real-time response capabilities to any H.264 RTSP IP video system.



### Intelligent video analytics

Avigilon's field proven 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 of when suspicious activity occurs. Additionally the Rialto appliance's advanced self-learning technology continuously improves the system's performance over time. The I4 supports full 30 fps 1080p (1920 x 1080). Objects are detected at up to 200 ft for D1 and 500 ft for 1080p resolutions. The I4 also supports thermal for critical perimeter protection requirements for a maximum range to 2000 ft. Detection ranges are camera, lens, and lighting dependent.

### Instant notification

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

### Fast install

The I4 is easy to use and install. Simply connect the I4 to your network and add or set up your cameras. It's ready to use right out of the box. Self-learning and an intuitive rules interface makes it straightforward to integrate our award-winning analytics with either your existing cameras and VMS system or as a stand-alone system.

### Edge Storage

The Rialto I4 appliance is available with a 40 GB of SSD or 500 GB HDD for on board storage. On-board storage eliminates the need for central servers, reducing network traffic and bandwidth consumption by over 90%. The I4 is easily deployed in any environment, including mixed IT networks, wireless networks and WAN deployments and requires no additional infrastructure upgrades.

## Optimized bandwidth & storage

Like all Avigilon devices, the Rialto I4 appliance is designed for optimal network bandwidth and storage usage – the I4 includes a 40GB SSD or 500GB HDD for local storage.

The I4 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.

## Enhanced features

<b>Audio Channels</b>	Multiple audio inputs and outputs allow for flexibility in designing a system adapted for alarm response
<b>Onboard Storage</b>	Every device comes with storage, eliminating the requirement for extra equipment
<b>4 Channel Layout</b>	Single chassis supports multiple cameras, including a mix of Day/Night, Thermal, etc.
<b>Power Options</b>	12VDC, 15 Watts with 110V/60Hz and 220V/50Hz power adapters

## Rialto™ I4 analytic bridge specifications

### STORAGE

- 40 GB SSD: 3-5 days typical storage
- 500 GB HDD: 30-90 days typical storage

### VIDEO COMPRESSION

- H.264 compression, (Baseline, High, & Main profile support) MJPEG for mobile
- Frame Rate: Up to 30 frames per second in all resolutions
- Triple Stream Encoding: Alarm events at high quality, resolution & frame rate. Continuous recording at lower quality, resolution & frame rate (selectable).
- Visual alarm indicators (colored boxes around objects detected) can be turned on or off at the display
- Programmable pre-alarm video recording

### NETWORKING & COMMUNICATIONS

- Ethernet 10/100 BaseT — RJ45 connector
- Protocols: HTTP, HTTPS, TCP, RTSP, UDP, RTP, DHCP, NTP, DNS
- Security: Multiple user access levels with password protection, IP address filtering, & HTTPS encryption
- Web browser access to Rialto via built-in web server

### ALARM & AUDIO INPUTS & OUTPUTS

- 2 Audio inputs, 2 Audio outputs via two 3.5mm jacks
- Audio compression: G.711
- Audio streaming live two-way: half duplex
- Audio recording — alarm or continuous
- Four alarm inputs — TTL
- Four Alarm outputs — Optical relay, 20mA max. programmable normally open or normally closed
- One alarm relay output — SPST, 400mA max, programmable normally open or normally closed

### DIAGNOSTICS

- Loss of communications trouble alert
- Hard drive failure alert
- Scene change trouble alert
- Camera tampering alert

### POWER

- 12 VDC: 15W max
- 10 watts typical
- AC/DC adapter supplied
- Optionally powered via Terminal Block

## Example video analytics rules

- Object enters, leaves, or loiters
- Beam crossing
- People / vehicle detection
- Camera tampering
- Object removal
- Person or vehicle loiters

### ENVIRONMENTAL

- Operating Temp: 0°C to 50°C (32°F to 122°F)
- Storage Temp: -20°C to 85°C (-4°F to 185°F)
- Humidity: 20-80% RH (non-condensing)

### DIMENSION & WEIGHT

- (L x W x H): 7.625" x 4.5" x 2.0"  
(21 cm x 11.4 cm x 5.1 cm)
- Weight: 1.8 pounds (816 grams)

### COMPATIBLE AVIGILON CAMERAS

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

### ORDERING INFORMATION

VAA-I4-S40GB	Rialto™ I4 analytic appliance, 4 channel IP encoder (Up to 4 D1 or 2 1080p IP cameras) with 40GB of solid state drive storage
VAA-I4-H500G	Rialto™ I4 analytic appliance, 4 channel IP encoder (Up to 4 D1 or 2 1080p IP cameras) with 500GB of hard disk drive storage

