

Rialto™ A4

4 channel analog analytic appliance

AVIGILON

Award-winning video analytics for 3rd party analog & thermal security cameras

The Rialto™ A4 analytic appliance provides a cost-effective way to easily add video analytics to analog video surveillance systems. Analyze and record up to 4 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 A4 is a fast and easy way to add realtime response capabilities to any analog video surveillance 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 when suspicious activity occurs. Additionally, the Rialto appliance's advanced self-learning technology continuously improves the system's performance over time. The A4 supports full 30 fps D1 (720 x 480) video resolution. Objects are detected at up to 200 ft for D1 cameras. The A4 also supports thermal cameras for critical perimeter protection requirements for a maximum range up 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 directly from their PC.

Fast install

The A4 is easy to use and install. Simply connect the A4 to your network and add or set up your cameras. It's ready to use right out of the box. Analog cameras are connected directly via BNC ports on the back of the A4 unit. 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 A4 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 A4 appliance is designed for optimal network bandwidth and storage usage – the A4 includes a 40GB SSD or 500GB HDD for local storage.

The A4 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

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

Rialto™ A4 analytic bridge specifications

ENCODER

Video input (4): NSTC or PAL via BNC connectors
Software PTZ control from View software or USB joystick
Supports Pelco P or D Protocol for PTZ control
PTZ addresses: 0 to 255

STORAGE

Typical storage 40 GB: 3-5 days
Typical storage 160 GB: 3-4 weeks
Typical storage 500 GB: up to 2 mos

VIDEO COMPRESSION

H.264 compression, 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 & frame rate (selectable)
MJPEG stream for mobile devices
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, RTCP, DHCP, NTP, DNS
Security: Multiple user access levels with password protection, IP address filtering, & HTTPS encryption
Serial communications: RS-232 or RS-485 (auto-detected) — terminal block
Web browser access to encoder 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: full 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
Self-diagnostics built in
Camera tampering alert

Example video analytics rules

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

POWER

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

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): 8.25" x 4.5" x 2.0" (21 cm X 11.4 cm X 5.10 cm)
Weight: 1.8 pounds (816 grams)

ORDERING INFORMATION

VAA-A4-S40GB	Rialto™ A4 analytic appliance, 4 channel analog encoder with 40GB of solid state drive storage
VAA-A4-H500G	Rialto™ A4 analytic appliance, 4 channel analog encoder with 500GB of hard disk drive storage

