



Firetide Integrated Video Solution IVS-100

Integrated Video Surveillance

Firetide IVS-100 is an integrated wireless video surveillance solution supporting public safety and commercial security applications. Incorporating a Firetide HotPort® wireless mesh node, IP camera or analog video camera with an encoder, and optional storage, the system is ideal for outdoor video surveillance applications. Designed for rapid deployment, IVS-100 delivers wireless connectivity, real-time video and edge-of-network storage in a single form factor. IVS-100 makes it easier for public safety agencies and commercial security integrators to deploy and manage video surveillance systems, putting this valuable security tool to use more quickly and cost-effectively.

High-performance Wireless Mesh

Firetide HotPort dual-radio mesh node, included with wireless model of IVS-100, delivers industry-leading performance and security for real-time, evidence-grade video. The mesh node features high powered radios that support 2.4, 4.9 (U.S. public safety licensed band) and 5 GHz. Bandwidth for both radios can be combined to provide 70 Mbps per single link in a mesh. The radios can also be set to deliver a sustained 35 Mbps bandwidth across an unlimited number of hops if a multi-hop or linear network topology is required.

Distributed Wireless Switch Architecture

Firetide mesh networks are Ethernet-based and employ a fully distributed wireless Ethernet switch infrastructure. Unlike point-to-point or point-to-multipoint networks, every node on a mesh network can communicate with every other node with full routing and switching capabilities, along with security and application layer quality of service. Firetide mesh networks possess distributed intelligence: each of a network's nodes carries the knowledge to determine the quickest, most reliable paths for delivering data. It is an architecture that is particularly adept



Firetide IVS-100

at load balancing large streams of video. If a path becomes overly congested or a node disappears altogether, Firetide mesh is smart enough to dynamically re-route feeds to the next quickest path.

Multiple Connectivity Options

To facilitate deployments, IVS-100 enables easy integration with wired networks. IVS-100 comes equipped with one Ethernet interface; depending on the model, fiber and wireless mesh connectivity is also available. IVS-100 can also be ordered in a fiber-only version (no wireless connectivity), with Ethernet-to-fiber transceiver. This flexibility allows customers to connect IVS-100 to fiber optic networks, wired Ethernet networks or Firetide wireless mesh networks, depending on locations and available connectivity.

Edge-of-Network Storage

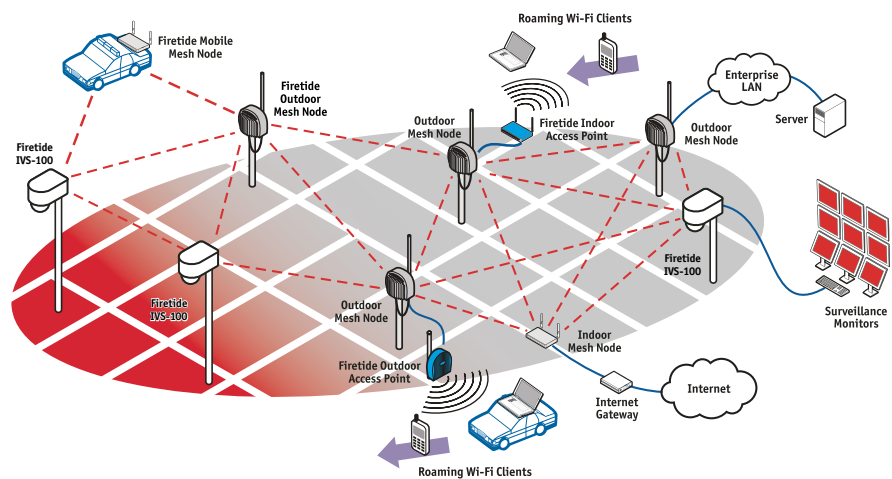
The edge-of-network storage capability in IVS-100 reduces the load on the network, enabling support for more cameras with the same infrastructure. It also provides distributed access to recorded video from mobile incident command centers and enables retrieval of video should a major incident disable a large portion of the network.

Flexible Camera Options

Designed with multi-camera option in mind, IVS-100 offers an option of either an IP or analog camera, depending on customer preference.

Improved Aesthetics and Visibility

IVS-100 improves the aesthetics of video surveillance deployments, with out-of-sight cables connecting mesh node, camera and encoder within a weatherized enclosure, which can be painted to order to meet specific installation requirements. Additionally, IVS-100 features an optional blue light to draw attention to the fact that the area is under surveillance. You can set the option for the blue light to be always on, or you can control it over the network: from a central command center or anywhere on the network, even from a cruiser connected to the wireless network via mesh.



Firetide IVS-100 wireless video surveillance network

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Specifications

Models

- IVS-100 Firetide Integrated Video Solution
- Customizable networking, encoder, camera and annunciation options

Mesh Protocol

- Firetide AutoMesh™ Protocol

Security and Encryption

- 40 bit, 104 bit WEP keys
- 128 bit, 256 bit AES keys (WPA2, end-to-end data)
- MAC address filtering
- Digitally signed firmware files
- Digital certificates on nodes

Traffic Prioritization

- Quality of Service (QoS 802.1p)

Wireless Interface

- IEEE 802.11a/b/g/h ad hoc
- Transmit power up to 400 mW
- Frequency ranges
 - 2.412 – 2.483 GHz
 - 4.94 – 4.99 GHz (US public safety band)
 - 5.15 – 5.25 GHz
 - 5.25 – 5.35 GHz
 - 5.470 – 5.725 GHz
 - 5.725 – 5.825 GHz
- Receive sensitivity (typical)
 - 2.4 GHz, DSSS
 - 1 Mbps: -95 dBm
 - 11 Mbps: -88 dBm
 - 2.4 GHz, OFDM
 - 6 Mbps: -90 dBm
 - 54 Mbps: -73 dBm
 - 5 GHz
 - 6 Mbps: -90 dBm
 - 54 Mbps: -73 dBm
- Dynamic Frequency Selection (DFS)
- Transmit Power Control (TPC)

Mesh Management Software

- HotView mesh management software (bundled)
- HotView Pro™ mesh management software (optional)

Mobility Controller Software

- Firetide Mobility Controller client and infrastructure software (bundled with HotView Pro)

Regulatory Agency Certifications

- Contact your Firetide dealer for product availability and certifications for your country
- RoHS and WEEE compliant

Wireless

- Firetide 6102 dual radio mesh node
- Two external N-Type antenna ports with lightning surge suppression
- Allow various external antenna options

Power supply

- Input Power 100 – 240 VAC 50/60Hz
- LTW 3 pin power connector on back side of the unit
- Standard AC power cord length 5 meters
- AC power length options (flying leads) 25, 50

Certifications

- CE, MET 60950, EN 60950, FCC, RoHS, IC

External Ports

- (1) Outdoor sealed RJ45 (10 pin LTW) for Ethernet
- (1) Outdoor sealed Fiber Single Mode / Multi Mode LC connector
- (2) N-Type Female for external antennas
- (1) Sealed quick disconnect power plug (3 pin LTW)
- (1) Grounding stud

Enclosure

- Outdoor NEMA 3R, polycarbonate material, paintable
- Vandal resistant screws, drip ring around the fan
- Shroud at the back of enclosure to prevent tampering and for weatherization

Mounting options

- Tooled and designed bracket for separate wall, pole, and pipe mount

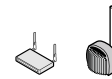
Warranty

- Hardware: three year limited warranty
- Software: ninety-day limited warranty

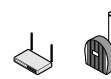
Environmental Specifications

- Operating temperature: -22°F to 125°F
- Humidity (non-condensing): 10% to 90%
- Maximum altitude 15,000 feet (4600 meters)

Other Firetide Products



Mesh Nodes
HotPort Indoor & Outdoor Mesh Nodes



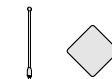
Access Points
HotPoint Indoor & Outdoor Access Points



CPE
HotClient Indoor & Outdoor Customer Premises Equipment



Software
HotView & HotView Pro Network Management Software, Firetide Mobility and WLAN Controller



Accessories
Antennas, Mounting Kits, Cables, etc.



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