

# Airvenue-AG Wireless Video Surveillance

Model 525V-2 and 528 Wireless Video Servers



## Benefits:

- Expanded 24x7 monitoring of key locations, vital processes & events
- Improved security
- Decrease field staff
- Flexible & easy to install
- Cost-effective solution vs cable
- 11/54/108 Mbps local access and wireless bridging
- Compatible with IP centric sensors
- Secure, Military proven solution
- Scalable solutions with built-in security

## Virtual Presence

World events have increased the need for video surveillance— be it for industrial, government, military, enterprise or law enforcement use ... to monitor production lines, our highways, borders, buildings, or catastrophic occurrences. With Airvenue-AG wireless video servers you can meet the demands and requirements for video solutions that must be rapidly deployable, adaptable, and adjustable to very dynamic, and often hostile, environments.

Airvenue-AG video servers can satisfy these requirements and also enable the inclusion of other IP centric devices to form integrated and seamless sensor, analysis, and response systems. They provide the means for 360o situational awareness and virtual presence, almost anywhere, and with minimal staff.

In addition, Airvenue-AG wireless configurations enable local access “hotspots” based on IEEE 802.11 technology at each video server for mobile network and information access for authorized personnel.

## Secure and Cost-Effective

An Airvenue-AG video solution employs state-of-the-art secure wireless technology which can be distributed across the wireless enterprise without the need for expensive Virtual Private Network (VPN) devices. Airvenue-AG FIPS Validated™ security is unlike other wireless solutions that are known to have flawed security.

Airvenue-AG model 525V-2 and 528 wireless video servers are compatible with all major industry analog/digital video devices. They are flexible and innovative wireless video servers whose configuration can be permanent, semi-permanent or temporary based to suit the particular needs at the time - simply select the mounting locations, hook up the cameras and Airvenue-AG video server, aim the antennas and wireless bridging is completed.

## Flexibility of Use

Airvenue-AG wireless video servers enable scalable bridged networks that grow as security needs do and easily integrate with other TCP/IP based security systems. They provide wireless hotspots for faster response, and offer broader data distribution and network access. Accessible, easy viewing of live and stored video images is quick and simple with mobile 802.11- enabled devices.

Airvenue-AG Wireless Video Servers are cost-effective and faster to install than wired networks. They eliminate hardwired infrastructure additions along with access restrictions while saving time, money and labor.

## Capabilities

Airvenue-AG video solutions track enhance security; improve safety; detect threats and lower crime rates.

Typical critical infrastructure targets include:

- Municipal buildings & complexes
- Transportation centers – Airports, Rail & Seaports
- Bridges / tunnels
- Arenas & Convention Centers
- Public Events
- Power Grids
- Water systems / facilities



## Broad, Expandable Coverage

Airvenue-AG wireless video servers are modular and expandable. One camera server (model 525V-2) can be used in combination with four camera servers (model 528) to meet particular coverage requirements. Once a wireless surveillance network is designed, it can be configured and installed in a fraction of the time required for cabled networks. And, with wireless bridging, you will reach locations normally inaccessible to wired networks while providing superior remote surveillance capabilities. In addition, broad hotspot access is enabled across the surveillance network, well beyond the wired LAN.

The Airvenue-AG surveillance solution revolves around a three tier configuration which is an inherently modular and expandable wireless infrastructure to enable flexible deployments. The first tier consists of cameras and other sensors. The second component tier is comprised of the highly secure FIPS 140-2 Validated Airvenue-AG wireless infrastructure and video servers.

The third tier is the Video Management System which manages the cameras, images, and other sensor information from within a Command and Control Center.

## Video Management

Integrated with Airvenue-AG video servers, Airvenue recommends FirstView™ video systems from LiveWave, Inc. as a video management system. FirstView's video solutions are ideal to support a video Command and Control Center. The components of the FirstView system include video control, management, storage and retrieval.

FirstView Enterprise Servers support high demand video and distribution. This delivery method solves the bottleneck issue on far end encoder/servers, which simply stream data to the FirstView Enterprise Servers for replication. Server configuration as well as user and network management are handled with LiveWave's secure, browser-based software.



Airvenue-AG model 525V-2  
wireless Video Server



Airvenue-AG model 528  
Multi-port  
Video Server

## Airvenue-AG model 525V-2 and 3e-528 Wireless Video Servers

### Video Frame Rates

Image frames: up to 25 PAL / 30 NTSC  
Bandwidth control – no data saturation

### Video Compression

5 levels of compression  
Motion JPEG, MPEG1, MPEG2, MPEG4

### Video Resolution

QCIF: 176x112 NTSC, 176x144 PAL  
CIF: 352x240 NTSC, 352x288 PAL  
4CIF: 704x480 NTSC, 704x576 PAL

### Pan/Tilt/Zoom

P-T-Z for remote camera control – major manufacturers & protocols: Pelco, Panasonic, Sony, etc.

### Ports

4 x BNC video (3e-528), 1 x BNC video (3e-525V-2)  
1 x WAN  
4 x serial P-T-Z (3e-528), 1 x serial P-T-Z (3e-525V-2)  
4 x camera power (3e-528), 1 x camera power (3e-525V-2) – 110/220V depending upon power

### Power Requirements

100 – 240 V AC, 47 – 63 Hz

### Weight

19 lbs (model 528), 5.5 lbs (model 525V-2)

### Size

12" x 10" x 8" (model 528)  
9.25" x 8.25" x 3.00" (model 525V-2)

### Wireless features

Multi mode: access point, bridge/repeater, gateway  
Model 528: 802.11b access point, IEEE802.11b/g bridge/repeater  
Model 525V-2: 802.11a/b/g access point & 802.11a/b/g bridge/repeater with Turbo A and Super G data rates of up to 108Mbps  
Adjustable RF power

### Security

Rogue AP detection  
FIPS 140-2 Validated, 256 bit AES encryption  
Non-FIPS mode, WEP  
Optional Security Server  
Supports DoD PKI

### Temperature

0° C - 50° C operating & -40° C - 80° C storage (528)  
-30° C - 70° C (w/ TEC option) operating & -40° C - 80° C storage (525V)  
Operating Humidity: 0% to 95% non-condensing

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