



Our incident investigation video systems are designed for rapid field deployment. Using the latest in wireless networking technologies, these systems enable investigators and emergency response squads to acquire 360-degree visibility of their areas of interest, and then leverage the information by sharing it live with off-site resources. They are able to do so securely, requiring no expertise in complex networking concepts or terminology.



## System Components

Fully integrated to ensure ease of deployment in the most rigorous of situations and environments, AgileMesh's wireless scene investigation video systems provide 360-degree visibility into any incident or event.

Each system is configured with three basic components: a digital high-resolution video camera, three or more wireless video networking nodes (wearable, relay, and base station nodes), and base station video management and networking software.

## Features

- Simple error-proof configuration.
- The proprietary node control panel design ensures full interoperability and integration with other agencies.
- Multiple encryption levels ensure highly secure network communications.
- Ruggedized and weatherized for the most demanding environments.
- Provides commanders and off-site resources with full, real-time visibility over secure internet connections.
- Self-powered for deployments anywhere.

## Base Station

### Viewing/Video Management Software

- Windows 2000, XP and Vista compliant
- Camera PTZ controls
- Recording/playback option
- Multiplex up to 16 video streams
- Control resolution & frame rate

### Windows Software Router

- AS0500 Windows Software Router
- Routes Video for remote viewing
- Advanced Network Address Translation

## Digital Video Cameras

(Including case, extended-life battery and charger)

### Available models

- AV7150 (Sony DCR-DVD108 Mini DVD Camcorder)
- AV7155 (Canon 2183B001 HG10 HD Camcorder)
- AV7160 (Panasonic SDR-S10 Rugged SD Palmcorder)

### AV7150 Sony DCR-DVD108 Mini DVD Camcorder

- Super NightShot® Plus Infrared System
- Storage Media: Mini DVD-R/Memory Stick PRO Duo
- Carl Zeiss® Vario-Tessar® Lens with 40x optical/2000x digital zoom

### AV7155 Canon HG10 HD Camcorder

- High Definition resolution (1920 x 1080)
- Storage Media: HDD 40 GB Internal
- 10x Optical Zoom, 200x Digital Zoom, 2.7" LCD

### AV7160 Panasonic SDR-S10 Rugged SD Palmcorder

- Rugged design with fortified outer body casing
- Storage media: SD/SDHC Memory Cards
- Compact Size: 0.94W x 1.26H x 0.08D inches

## Wireless Network Nodes

### AV4210 Wearable Node Kit

(Worn by videographer)

### AV1210 Wearable Single Video Node

- Video Interface: Composite Out (BNC/RCA); NTSC/PAL; MJPEG encoding; Resolutions 640 x 480, 320 x 240, 160 x 120; 1 to 30 fps
- Firetide AutoMesh™ Protocol
- Network Interface: Two RJ-45 Connectors; 10 /100 802.3 Ethernet
- Pan-Tilt-Zoom Control: RS-485; Multiple protocols
- Wireless Interface:
  - 2.400 – 2.497 GHz
  - 4.940 – 4.990 GHz (PS models only)
  - 5.150 – 5.350 GHz
  - 5.725 – 5.850 GHz
- TX power: up to 1W EIRP
- Power: 12VDC (Battery and Charger Included)
- Encryption:
  - 40 bit, 104 bit WEP keys
  - 128, 256 Bit AES Encryption
- Operating Temp: -20° to + 55° C
- Molle pouch w/Alice clips

### Other AV4210 Kit Contents

- Antennas: 2.4/5.X GHz paddle, 2.4 GHz rubber duck, and 4.9 GHz multi-polar bullet
- Cameras: B&W pinhole camera; color bullet camera
- Pelican case w/ custom foam cutouts

### Proprietary Virtual Control Panel Software

- Virtual channel selection
- Virtual node address selection

### AV7500 Relay Node

(Extends network range)

### Proprietary Control Panel

- Channel selection
- Placement aid (neighbors indicator)
- Node identity selector

### Mesh protocol

- Firetide AutoMesh™ Protocol

### Encryption

- 40 bit, 104 bit WEP keys
- 128 bit, 256 bit AES keys

### Wireless Interface

(Subject to country-specific regulations)

- TX Power: Up to 1W EIRP
- 2.4 GHz spectrum:
  - 2.400-2.497 GHz
- 4.9 GHz spectrum (PS models only)
- 5 GHz spectrum:
  - 5.150-5.250 GHz
  - 5.250-5.350 GHz
  - 5.725-5.850 GHz
- Class of Service Traffic Prioritization

### Network Interface

- RJ-45 connector
- 10/100 802.3 Ethernet

### Power Options

- Internal 12 VDC battery
- 110 VAC, 60 Hz
- External 12 VDC input
- Integrated battery charger
- Cigarette lighter & alligator clip adapters

### AV4500 Viewing/Base Station Kit

(Connects to vehicle laptop)

### AV1500 Wireless Network Node

- Same performance specifications as AV7500 node described above except excludes internal battery and charger.

### Other AV4500 Kit Contents

- Antennas: 2.4 GHz, and 5.X GHz
- Magnetic mount antenna base
- Pelican case w/ custom foam cutouts

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