Motorola Wireless Camera

Mesh and WiFi Enabled Wireless Video System

Motorola's camera video system is a robust, low cost, easy to deploy, wireless solution for fixed and mobile video.

Integrating Motorola's Mobility Enabled Access (MEA) technology or WiFi directly into Sony's IPELA® camera has created a solution that is smaller and more cost effective than conventional wireless video systems. Utilizing either licensed 4.9GHz or unlicensed 2.4GHz frequencies, the wireless camera system can be part of a larger MOTOMESH network, or act as a stand alone video solution. With the MEA solutions, users can even wirelessly access high quality video feeds while traveling at highway speeds.

Motorola's wireless networking technology enables users to wirelessly access critical broadband applications seamlessly, and on the move. Whether integrating into an existing mesh network, or as part of an ad hoc, broadband network formed with other users, Motorola's wireless cameras deliver real-time data to detect, prevent, and respond.

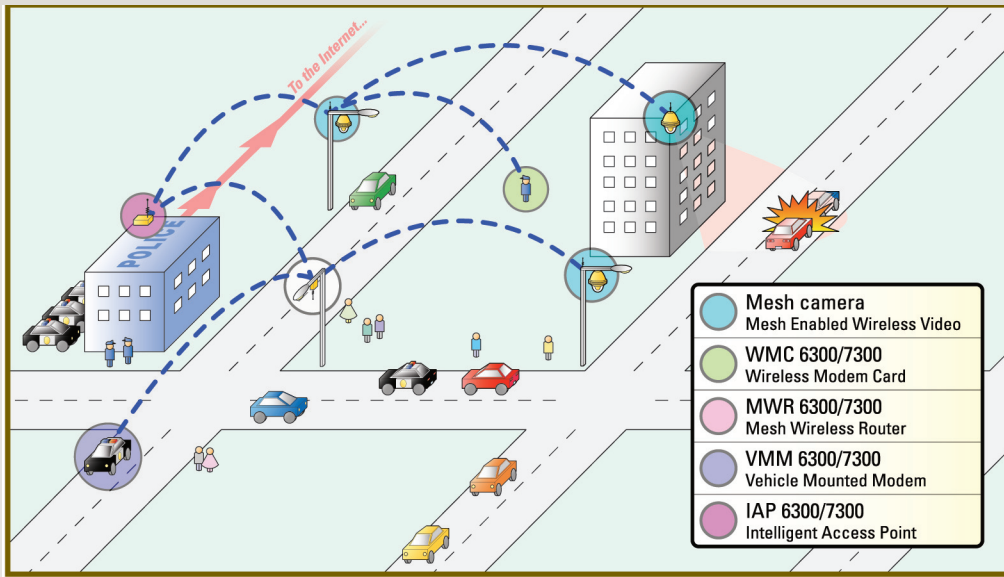### Self-Forming Wireless Video Network

Motorola's intelligent MEA technology turns mesh camera nodes and clients into routers/repeaters that form a seamless, wireless network automatically. This network can be deployed independently, or as part of a wider mesh network using additional mesh devices. Video and other broadband data can "hop" through every device in the network – even to and from vehicles traveling at highway speeds. Due to this Multi-Hopping feature, the video network actually becomes more robust as additional cameras and other MEA devices are added.

Support for 4.9GHz MEA, 2.4GHz MEA and 2.4GHz 802.11b/g Operation

A mesh camera network can be configured to utilize either licensed 4.9GHz or unlicensed 2.4GHz frequencies. Motorola offers a Wireless Modem Card for each of these frequencies that is inserted directly into Sony's IPELA camera to create a mesh camera node. The MEA cameras come preloaded with drivers for both the 2.4GHz and 4.9GHz MOTOMESH modem cards, and will automatically join the network when turned on. The built-in 802.11 b/g provides WiFi® connectivity to the MOTOMESH Duo products.

Cost-Effective, Scalable and Easy to Deploy

Within each node, the routing and access functions are managed by an internal Wireless Modem Card, eliminating the need for externally connected network devices. This can significantly reduce costs compared to conventional wireless video systems. Mesh camera nodes provide a fast, easy way to add high quality video applications to existing Motorola mesh networks.

Additional Mesh Camera Video System Features

- Differentiated Services Using IP Quality of Service (QoS) Support
- Over-the-Air Software Upgrade Support
- Web (HTTP) Based Management Interface
- Camera firmware upgrades available on www.sony.com/security

Legend:
- **Mesh camera** — Mesh Enabled Wireless Video
- **WMC 6300/7300** — Wireless Modem Card
- **MWR 6300/7300** — Mesh Wireless Router
- **VMM 6300/7300** — Vehicle Mounted Modem
- **IAP 6300/7300** — Intelligent Access Point

Mesh Enabled Architecture Benefits

Mesh Camera Video System Features

- Self-forming and self-healing, ad hoc networking
- Uses either 2.4GHz or 4.9GHz radio spectrum
- Every camera in the video system acts as a router/ repeater, and strengthens the network
- Reduced camera deployment costs
- Supports remote video streaming to and from vehicles – even at speeds in excess of 150 mph

IPELA Camera Features

- Comprehensive pan and tilt allows 360° continuous pan and 0-90° tilt range
- 26x Optical and 12x Digital zoom
- High frame rate of 30 fps
- Motion and unattended object detection
- Day / night function, providing clear images even in extremely low light
- Built-in image stabilization features
- PCMCIA CardBus and Memory Stick Pro data interfaces built-in
- Local recording ready (with Memory Stick Pro)
- Camera supports multi-codec JPEG, MPEG-4, H.264 and allows two simultaneous streams
- Advanced Privacy Zone Masking with Spherical (3-D) Tracing
- Anti-tamper technology permanently encodes images recorded with unique camera ID
- Sensor In / Alarm Out ports (2 each)
- 2.4GHz MEA or 4.9GHz MEA support for connectivity to MOTOMESH Solo and Quattro products, respectively
- 802.11b/g support for WiFi connectivity to the MOTOMESH Duo products
- Supports WEP/WPA/WPA2 security standards - complies with 802.11 b/g standards
- Dome camera supports 24 V power

Motorola Can Give You The Edge

Public Safety & Security Benefits

- Supports 4.9GHz radio spectrum licensed specifically for Public Safety use
- Mesh network architecture provides robust and reliable, broadband data communications
- Quickly deploy as permanent or temporary video surveillance platform – for schools, parks, airports, sporting events, etc.
- Stream live video to and from vehicles in route to, or engaged at an incident site
- Integrates seamlessly into wide area, 2.4GHz or 4.9GHz MOTOMESH networks

Benefits for Municipalities

- Supports unlicensed 2.4GHz radio spectrum for general public use
- Highly scalable solution allows deployment of networks of any size
- Stream live video to and from vehicles – even while traveling at highway speeds
- Provide improved system management and enhanced rider experience for Public Transit
- Integrates seamlessly into wide area, 2.4GHz or 4.9GHz MOTOMESH networks and the 2.4GHz WiFi MOTOMESH Duo network

The mesh camera wireless video system is part of Motorola's suite of fixed and mobile intelligent video solutions.

MOTOROLA

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