

GroundView Series™

WATCHTOWER - Above-the-Crowd Surveillance

The AgileMesh GroundView Series WATCHTOWER™ can be extended up to 20 feet high for an above-the-crowd view. It includes a specially designed camera deployment unit (CDU), one or two ruggedized PTZ surveillance cameras, a CommandMesh™ compliant wireless networking node, an antenna mounting assembly, two antennas and a carrying case.

The WATCHTOWER is ideal for surveillance of crowds, special events, over a fence into second floor windows or doors and for covering a wide area.



AgileMesh total on-scene, portable surveillance systems enable incident commanders to provide an enhanced level of officer safety, valuable post-incident training tools, incident action evidence gathering and a new level of liability protection. All video transmissions are secure and if one AgileMesh unit is disabled or destroyed other on-scene units continue to operate.

AgileMesh solutions include the proprietary CommandMesh software platform which optimizes video signal processing and communications.



CHOICE OF 3 DIFFERENT CAMERA HEADS
**An On-Scene Force-Multiplier that's Easy to
Deploy, Set-Up and Use with No Special
Technology Skills Required**

WATCHTOWER – Components and Specifications

WATCHTOWER

The WATCHTOWER includes a specially designed camera deployment unit (CDU), one or two ruggedized PTZ surveillance cameras, a CommandMesh Tactical Video Node, an antenna mounting assembly, two antennas and a carrying case.

KEY FEATURES OF EACH SYSTEM

- Simple error-proof configuration
- Standalone solution - no network or cell infrastructure required
- Supports diverse video sources, including existing robot vision systems, throw phones, sniper scopes, pole cameras, eyeballs, and mast cameras
- Proprietary node Control Panel design ensures full interoperability and integration with other agencies
- Built-in deployment aids further simplify reliable set-up every time
- Multiple encryption levels ensure highly secure network communications
- Ruggedized and weatherized for the harshest environments
- Entirely self-contained/ easily scalable
- Provides full, real-time concurrent 360 degree incident/event visibility
- Self-powered

CAMERA DEPLOYMENT UNITS (CDUs)

- Heavy Duty for Tactical Outdoor Use
- Will not tip over in high winds
- Includes staking kit for extra stability
- Hard-side camera and node carrying case
- Tripod accessory bag
- Mast extends to 20'
- Accommodates single or dual cameras

ANTENNA ASSEMBLY

- Includes 2.4 and 5.X GHz antennas
- Quick-connect to CDU mount
- 20' LMR-400U cable w/RP-TNC plug connector

PROPRIETARY CONTROL PANEL

- Channel selector and indicator
- Deployment aid (indicator for correct placement)
- Node identity selector and indicator

MESH PROTOCOL

- AgileMesh™ CommandMesh™ Protocol (standards based)

ENCRYPTION

- 802.11s standard based key generation
- AES-SIV

WIRELESS INTERFACE

- TX Power: Up to 1W EIRP
- 2.4 GHz spectrum: 2.410-2.497 GHz
- 4.9 GHz spectrum (Public Safety only)
- 5 GHz spectrum:
 - 5.150-5.250 GHz
 - 5.250-5.350 GHz
 - 5.725-5.850 GHz
- 900 MHz ISM (optional)

NETWORK INTERFACE

- RJ-45 connector
- 10/100 802.3 Ethernet

VIDEO INTERFACE

- Composite In (BNC); NTSC/PAL
- Simultaneous Dual Encoding
 - MJPEG Encoding; Resolutions 640 x 480, 320 x 240, 160 x 120: 1-30 fps
 - H.264 Encoding; Resolutions 640 x 480, 320 x 240, 160 x 120: 1-30 fps
- RJ-45 for IP Cameras

AUDIO INTERFACE

- Line level In/Out

DIGITAL INTERFACE

- Pan-Tilt-Zoom Control: RS-485
- Alarm input (Hi=12vdc)
- Relay contact output (NO)

CAMERA OPTIONS

- PTZ Dome
 - 20' cable w/mil-spec connector
 - 23X Optical zoom
 - 0.1 LUX Color
 - 0.02 LUX B/W
- Hardened PTZ w/IR
 - 20' cable w/mil-spec connector
 - 26X Optical zoom
 - Image Stabilization
 - 1.0 LUX (0 lux w/IR)
- Environmentally Hardened PTZ
 - 20' cable w/mil-spec connector
 - 25X Optical zoom
 - Nitrogen filled
 - -20 - +70 degrees C
 - .02 lux

POWER OPTIONS

- Internal 12VDC battery
- 110/220 VAC, 50/60 Hz
- External 12VDC input
- Integrated battery charger
- Cigarette lighter & alligator clip adapters

KIT INCLUDES

- PTZ camera(s)
- CommandMesh enabled video node
- 6 meter mast
- Antennas
- Canvas mast bag
- Camera/accessories carrying case

