

MST200

High Performance Multi-Service Terminal Device



Azalea Advantages

- Dedicated multi-service terminal device for wireless video surveillance
- Wireless video optimization technology, offering quality similar to wired network equipment when used with MSR-series routers
- Exclusive long distance transmission optimization enabling unprecedented quality and stability of video streams up to a distance of 10 miles

Key Markets

- Oil & Gas Exploration and Production
- Mining & Quarrying
- Airports
- Ports & Transportation Logistics
- Campus Settings (Colleges and Business)
- Construction
- Municipalities – Public Safety

MST designed for dedicated, optimized outdoor video surveillance transmission

Market Challenges

To achieve video quality comparable to a wired network, typical wireless network providers face many insurmountable challenges, including low bandwidth, distortion, video pixilation (mosaic appearance), high packet loss rates, long delays and frame jitter.

The MST200 — An Overview

The Azalea MST200 is the high performance multi-service terminal device specifically designed for outdoor wireless video surveillance. It is the first dedicated device for wireless video surveillance in the industry. This device delivers unprecedented stability and reliability for long distance wireless transmission of high resolution video streams.

The Azalea MST200 simply and reliably handles these difficult problems because of our deep experience in video transmission and wireless networking. This device provides the following three key functions to deliver on the promise of high quality video over wireless networks.

1. Network Video Delivery Technologies

When interfacing with other nodes in the mesh networks, our patent-pending technology AVT™ automatically reduces the effects caused by instability of transmission bandwidth. It inspects the video packets, prioritizes them, and prevents

key errors from occurring in transmission. At the same time, AVT™ performs adaptive jitter removal not only controlling the video delivery rate, but also the timing to produce constant, stable video packets.

2. Video-Optimized QoS Technology

All video streams entering the MST200 are automatically identified and tagged. Different queuing techniques are employed to give video streams the right priority for transmission. While there are many types of non-video traffic in the network, they will not affect the transmission of video streams. The Video QoS is fully implemented by Azalea mesh network MSR routers throughout the network until the streams reach their destination.

3. Optimized for Long Distance Transmission

Network video optimization ensures adequate bandwidth for long range transmission (>10 miles). These capabilities enable the MST200 to transmit high quality video streams in severe environments. In addition, this device has comprehensive, sophisticated authentication and encryption mechanisms to ensure the privacy of client data.

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The MST200 offers rapid, seamless roaming and handoff thus delivering high quality video streams. The MST200 also provides advanced functions such as user configuration and remote software upgrades.

To achieve these advanced capabilities, the Azalea MST200 uses the same high performance hardware platform that is used by many leading wireless bridge and mesh access point manufacturers. Its high-speed processor and memory exceeds the industry norms. The Azalea MST200 is in a class by itself when high quality, reliable wireless video surveillance is needed.

Features and Benefits

- 802.11a/b/g and 4.9GHz support
- Seamless and stable roaming and handoff
- WEP, 802.1x, WPA/WPA2 support
- 5 level signal strength LED indication, easy deployment
- 12dB+ built-in antenna
- Remote software upgrade

Technical Specifications

Wireless Access

	MST2H1FG	MST2H1FA
• Radios	Single	Single
• Frequency band:	802.11b/g	802.11a & 4.9GHz support
• Frequency:	2400-2483.5MHz	5150-5850MHz, 4940-4990MHz
• Transmit power:	2.4GHz 400mW (26dBm)	5GHz 400mW (26dBm)
• Modulation:	OFDM, CCK, DSSS	OFDM, CCK
• Built-in antenna	12dBi 30degree	14dBi 30degree

- Receiver sensitivity: -96dBm@1Mbps, -93dBm@6Mbps, -91dBm@12Mbps, -85dBm@24Mbps, -82dBm@36Mbps, -78dBm@48Mbps, -76dBm@54Mbps
- Distance: >10 miles

Networking and Hardware Specifications

- Supports DHCP client
- Supports remote software upgrade
- Supports Web-based router management interface
- One N type antenna connector (50Ω) for extended antenna
- 2 adaptive 10/100M Base T Ethernet interfaces

Power Supply and Protection

- Electric appliance protection:
-ANSI/IEEE C62.41, UL 1449-2 ed., 10kA@8/20 uS Waveform, 36kA per phase
-EN61000-4-5 Level 4 AC Surge Immunity
-EN61000-4-4 Level 4 EMC Field Immunity
- Power: 100~240 VAC 50/60Hz
- Power consumption: 9W (in typical circumstances)

Other Specifications

- Dimensions: 255mm x 180mm x 82mm
- Weight (without bracket): 2.0 kg

- Operating temperature: -40 to 55° C
- Storage temperature: -40 to 80° C
- Humidity (non-condensing): 10%-90%
- Weather rating: IP55
- Wind survivability: up to 165 mph
- Shock & vibration: ETSI 300-19-2-4 spec T41.E class 4M3
- Transportation: ISTA 2A

Dimensions:

- Brown Box : 350mm X 245mm X 225mm
- Carton Box (4 brown box in 1 carton box): 505mm X 365mm X 470mm

Product specifications are current at the time of publication. Azalea undertakes no responsibility to update the documentation for changes that may occur from time to time in the normal course of business.

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