

# MST200

High Performance Multi-Service Terminal Device



Wireless Broadband anytime & anywhere



## Azalea's MST200 Advantages

- Easily and quickly deploy high quality video systems virtually anywhere.
- Enables cameras to be deployed cost-effectively throughout large geographies.
- Exceptional quality of service for video and VoIP applications.
- Reduces security costs and improves staff efficiency by increasing remote surveillance.
- Enables real-time incident response, investigation, and resolution.
- Built-in security provisions to protect the privacy of traffic over the mesh network.
- Dramatically improves the performance of video applications in a broadband wireless network infrastructure.

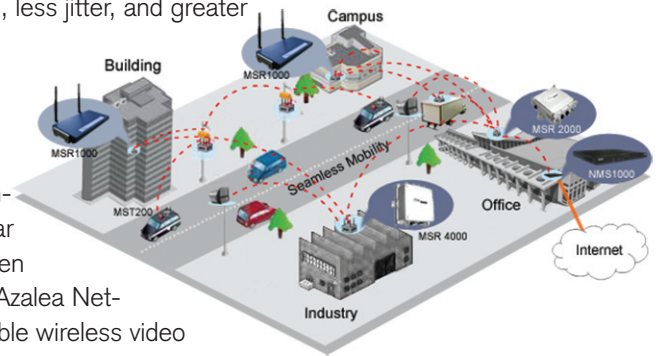
## Delivering Network Intelligence to the World of Broadband Wireless

### Designed for Connecting Mobile Devices to Wireless Mesh Network

The Azalea MST200 is a high performance multi-service terminal device, designed for outdoor wireless video surveillance. Azalea's MST200 IP-based video surveillance networks are purpose-built to deliver best-of-breed video surveillance infrastructure, technology and solutions for public safety, transportation and logistics, recreational areas, and emergency services, including moving vehicles. The MST200 broadcasts live information that enables 24x7 monitoring from any remote location. The Azalea MST200 implements wireless video optimization technology, providing clear, high-quality video with minimum packet loss, less jitter, and greater reliability.

### Wireless Video Optimization Technology

Wireless video optimization technology offers video quality similar to wired network equipment when used with MSR-series routers. Azalea Networks delivers high quality, reliable wireless video surveillance through its innovative Active Video Transport™ (AVT) solution. AVT™ removes impairments to video quality by inspecting video packets, prioritizing them, re-ordering any out of sequence packets and preventing key errors from occurring in transmission.



### High Quality of Service

The Azalea MST200 provides high bandwidth capable of supporting many simultaneous video streams, where each video stream is automatically identified and tagged. The Azalea mesh network implements video-optimized QoS throughout the network until the streams reach their destination. The MST200 supports traffic prioritization ensuring smooth, jitter-free images at high frame rates.

### Long Distance Transmission Optimization

The Azalea MST200 delivers unprecedented stability and reliability of high resolution video streams for long distance wireless transmission (up to 12 miles). It enables flexible and efficient transmission and storage of video images, maintaining the quality of videos for surveillance purposes. The MST200 has comprehensive, sophisticated authentication and encryption mechanisms to ensure the privacy of client data.

### Wire-Free Environments

Azalea Networks provides a wireless network backbone that allows cameras to be installed at extreme locations without expensive wiring or cabling. This enables quick deployment of cameras in indoor and outdoor settings with minimal installation costs.

## Functional Capabilities

- **Recording:** Enables “live” viewing and recording of multiple cameras.
- **Remote Monitoring:** Allows for close supervision from any remote location at any time.
- **Review and Tracking:** Allows for recall and viewing of recorded videos with zooming and tracking of particular scenes.
- **Event Assessment:** Allows real-time monitoring of events, ensuring the opportunity to act quickly to any situation.

## Mobile Video Service Anytime and Anywhere

Azalea Networks enables fixed and mobile video surveillance to be set up in challenging environments such as emergency services for public safety, vertical industries, temporary venues for concerts, trade shows, or any other sporting events. The Azalea MST200 has qualified most widely used cameras in the industry and connects IP cameras to a wireless network, installing video surveillance virtually anywhere in minutes.

## About Azalea

Azalea Networks delivers network intelligence to broadband wireless infrastructure through an innovative wireless routing technology that sets new standards in price and performance.

To learn more about Azalea Networks,  
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DS06E-1-0908

# Technical Specifications

## Wireless Access

	MST2H1FG	MST2H1FA
Radios	Single	Single
Frequency band	802.11b/g	802.11a & 4.9GHz
Frequency	2400-2483.5MHz	5150-5850MHz, 4940-4990MHz
Transmit power	2.4GHz 400mW (26dBm)	5GHz 300mW (25dBm)
Modulation	OFDM, CCK, DSSS	OFDM
Built-in antenna	13 dBi 45 degree	15 dBi 30 degree
Receiver sensitivity	-96 dBm @ 1 Mbps	-92 dBm @ 2 Mbps

## Software

DHCP client  
Remote software upgrade  
Adaptive Wireless Routing (AWR)  
For more see the Azalea AOS Data Sheet.

## Power Supply

Power: 100~240 VAC 50/60Hz  
Power consumption: Typical: 6.5W, Maximum:8.13W

## Physical

Weight: 4.5 pounds (1.8 kgs)  
Dimensions: 10" x 7" x 3" (255mm x 180mm x 82mm)  
Shipping Weight: 9 pounds (4.5 kgs)  
Shipping Dimensions: 16.7" x 13.8" x 8.6"  
(425mm x 335 x 225mm)

## Environmental

Operating temperature: -40 to 55° C (-40 to 131° F)  
Storage temperature: -40 to 88° C (-40 to 190.4° F)  
Humidity: 5% to 95%  
Transportation: ISTA 2A  
Weather rating: IP55  
Wind survivability: up to 165 mph  
Shock & Vibration:  
ETSI 300-19-2-4 spec T41.E class 4M3  
Transportation: ISTA 2A

## Management

Remote manager via web browser  
CLI  
SNMP v1/v2/v3c  
Web-based router management interface  
DHCP IP addressing  
For more see the Azalea NMS Data Sheet.

## Hardware

One N type antenna connector (50Ω) for extended antenna  
2 autosensing 10/100M Base-T Ethernet interfaces (Optional support 802.3af-compliant PoE out)

## Approvals

**Safety:** EN 60950-1, IEC60950-1, UL 60950-1, CAN/CSA-C22.2 No.60950-1, ANSI/IEEE C62.41, UL1449-2  
**EMC:** EN301 489,EN55022, EN61000, FCC Part 15, RSS-Gen  
**RF:** CFR47 FCC Part 15, RSS-210, EN 300 328, EN 301 893  
**Certification:** FCC, IC, CE, CB, cTUVus, RoHS,SRRC (China)

## Ordering Information

### Standard Components

- Azalea MST200 Outdoor Wireless Customer Premise Equipment
- 4.5m US power cable

### MST2H1FG-XX

- Standard Component
- Single 802.11b/g 400mW radio (2.4GHz)

### MST2H1FA-XX

- Standard Component
- Single 802.11b/g 400mW radio (5GHz, 4.9GHz)

### MST2H1FA-XX-P (with PoE)

- Standard Component
- Single 802.11b/g 400mW radio (2.4GHz)
- PoE on one Ethernet port (PSE mode)

### MST2H1FA-XX-P (with PoE)

- Standard Component
- Single 802.11a 400mW radio (5GHz, 4.9GHz)
- PoE on one Ethernet port (PSE mode)

## Accessories

A variety of accessories are available for use with the Azalea routers. These include omni-directional antennas (for access), directional antennas (for backhaul), ethernet cables, power cables and console cables. Please see your local Azalea representative for additional details.