

MRS

Media Relay System – The mobile security & media streaming solution

Media Relay System (MRS) is a complete solution for mobile security and media streaming management from the field. It allows users in the security and surveillance market to stream video/data live (H.264) and video clips from the field, upon alarm/request, using MRS units. The system supports all IP networks including cellular and other wireless networks. Up to 4 video channels can stream to the control center.

MRS was design for mobile vehicles, to provide public transportation safety, private fleet management and personal use. The unit has built-in rechargeable lithium battery for super mobile applications as Special Forces and others. The system can operate in open areas without infrastructure, supporting strategic antennas, oil rigs, electric/water sites, etc. The unit is small form factor, low power and can work with rechargeable lithium battery or 9-30v power input.

- Complete Mobile Video/Data Solution
- Up to 4 channels
- Built-In Cellular module (need only SIM)
- GPIO (4 inputs/2 outputs)
- LCD for very simple operation
- SMS alert to cell phones
- Local recording on flash media
- Multi-unit control center software



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MRS Specifications

MRS features:

- Video streaming:
 - On user request
 - On GPIO input event
 - On VMD event
- Video clip transmission
- PTZ control
- Unit recording with the following options:
 - Per input event
 - Per VMD event
 - Per user request
- Automatic bandwidth streaming control
- Built-in VMD
- SMS alerts to cell phone
- Self diagnostics

Command & Control:

- Multi unit real time streaming viewer
- Units are controlled and viewed from Control Center
- Location over Google Map
- Multi viewer clients
- Bit rate/ Frame rate user control
- Local recording
- Video Recording clip viewing
- One fixed IP address for entire system
- Video server supports multiple units and clients
- System status and communication quality
- Server Authentication
- Unit status and remote control
- GPIO control (input/output)

MRS unit Hardware:

- 1-4 Analog Video Input(s)
PAL / NTSC with the following options:
 - 4 CIF resolution 25 fps
- DSP based video CODEC (H.264)
- 1-4 Video out over IP
- Built-In Cellular engine module (HSDPA/3G/EDGE/GPRS)
- Built-In GPS
- Built-in RS-485 for PTZ control
- Built-in 8 GPIO (4 input/2 output)
- Flash media for recording
- Built-In LCD screen (OLED):
 - Setup configuration
 - Unit status
- Function keys for menu control
- Lightweight small size (8 x 13 x 3) cm
- 9-30v variable power input
- Built-in lithium battery power (rechargeable)
- Low power

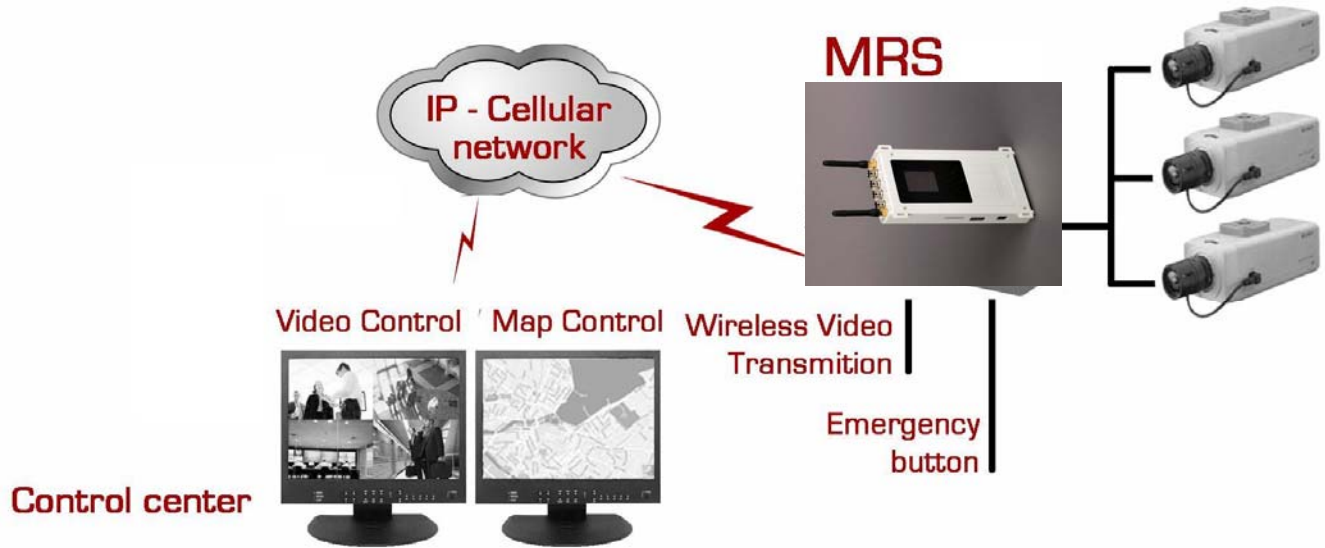


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MRS Architecture



MRS was design to work with cellular and wireless networks in real time. The system is sensitive to variable low bandwidth with minimum latency. The MRS architecture supports multiple units and clients. The number of concurrent streaming video depends on the MRS server bandwidth. Each client viewer is authenticated inside the server and allows communicating with permitted units only. The server receives automatically unit configuration, status, alarms and live streaming. All connected units are reflected in the client viewer with all user control capabilities. The user can start live stream from the unit as well as control PTZ cameras and I/O control. Recording is stored according to events as I/O, VMD, and user control. The MRS server supports multiple streams in/out and user authentication. Only one fix IP address is necessary to support the entire system. All units receive their IP from the cellular provider and they can even reside behind NAT.

