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Wireless Mobile Video Solutions

Infodraw MRS-400 Media Relay System
Product Specification

Overview

MRS-400 is a smart multimedia streaming system from the field over cellular network. It allows to stream video/audio/location **live** and monitoring anywhere upon alarm/request.

Key Features

- Real embedded system (design for wireless networks)
- Live **video/audio/location** streaming (low latency)
- Built-in cellular module (need only SIM)
- High performance DSP based CODEC (H.264)
- 1-4 Analog video input
- 1-4 video over IP
- 1 audio in/out over IP
- Built-in GPS receiver
- Monitoring video/voice and location over map
- Tracking history over map
- Bit rate/Frame rate remote control
- Automatic bandwidth control
- Built-in lithium battery (3.5 hours)
- Local recording on flash media
- Recording on remote monitoring
- Web client using flash client
- Phone/PDA clients
- Permission capability for different access level
- Version upgrade on the fly
- Small form factor
- No moving parts
- iPhone, Android and other phone clients

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Technical Specifications

Video		
Video Input	**1-4 BNC**	**PAL/NTSC**
Video compression	**H.264 Dual Encoding (streaming recording)**	
Bit rate	**From 10kbs to 2Mbs**	
Frame rate	**Up to 25/30**	
PTZ Control	**Built-n RS-485 (T+, T-)**	
Audio		
Audio Input	**Built-in microphone or Line in**	
Audio output	**Line out**	
Audio compression	**AAC**	
GSM		
GSM/CDMA	**Built-in (need only SIM)**	**HSPA/3G/EDGE/GPRS**
Antenna	**External**	**SMA Antenna**
Bandwidth control	**Automatic**	
GPS		
GPS	**Built-in**	**Update every few seconds**
Antenna	**External**	**SMA Antenna**
Screen		
Oled	**Built-in**	**Status, channel view**
Memory		
Micro SD	**Slot (Bit rate based on micro SD write speed)**	**Up to 32g**
I/O		
4 Input/4 output	**Built-in (Terminal block)**	**Dry contact**
Power		
Power Input	**5V**	**AC/DC to 5V adapters**
Power consumption	**800mA while streaming**	
Battery Lithium	**Built-in 4000 mAh (about 3.5 hours)**	
Power output	**5v for camera**	**Through terminal block**
Environment		
Temperature Input	**-10 +60**	
Physical		
Dimension	**9 x 15 x 3 cm**	
Weight	**300 gr**	
Other Interfaces		
USB client	**Built-in**	**For Setup**
USB Host	**Built-n**	**Other external peripherals**
Protocols		
RTP/RTSP/SDP		

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MRS System Advantages:

- **MRS architecture is based on MRS server**
- **Units can stream with the highest bandwidth exist regardless number of clients**
- **System design for low bandwidth and packet delivery failure**
- **Automatic bandwidth control by the units**
- **Multi clients to multi units communication using the server**
- **Only MRS server must have fix IP address**
- **Live video, voice and location over map are combine together in one monitoring application**
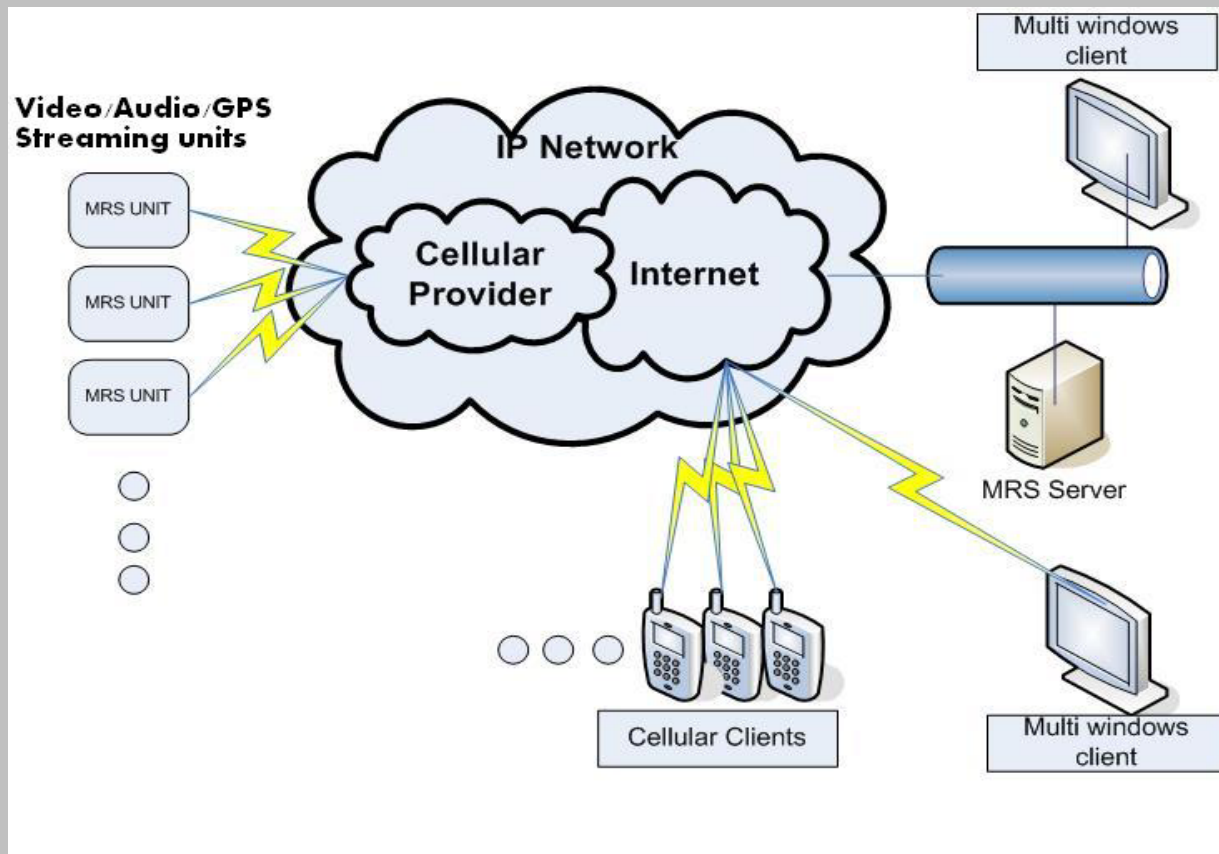- **Built-in cellular module (need only SIM)**
- **Small form factor**

Figure 1- MRS System Architecture