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PMRS – Personal Media Relais System

The most innovated product in mobile security !

Personal Media Relay System (PMRS) is a complete solution for personal security and multimedia streaming from the field (over the cellular 3G network). It allows users to stream live video/audio/location from anywhere and monitor from any location, upon alarm/request.

PMRS is a portable device and is designed to work handheld to provide personal safety and security to policemen, firefighters, security guards, special Forces, taxi drivers and others. The visual point of view of personnel in the field can be monitored live from any remote location. Similar to the MRS unit, the PMRS unit is also designed to provide security and safety for mobile vehicles, personal assets and can operate in open areas without infrastructure, supporting strategic sites such as antennas, oil rigs, electric/water sites, etc. Any analogue PAL/NTSC camera can be connected to the unit. PMRS can also be used as a hidden security system for houses, offices and shops.



The unit has a built-in alarm-button which can be pressed by personnel in the case of an event or emergency.

The alarm triggers an SMS to any preset phone number and will activate live video streaming on the connected server or PC/ laptop client.

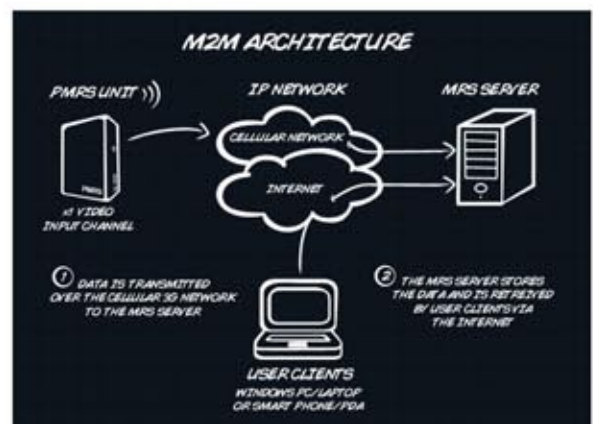
The unit can stream high quality video/audio to any specified IP and iPhone/PDA.

PMRS can stream live to web sites using flash media client. The unit is very small (5 x 10 x 2.6 cm), uses low power and has a built in rechargeable lithium battery for 5 hours of streaming or can use a 5V power input.

The system supports any HSPA/3G/Edge/GPRS SIM based cellular providers.

MRS Architecture options

The PMRS architecture is based on a PMRS server which can reside either on an Internet IP, VPN or inside the unit. The PMRS architecture was designed specifically for multi unit, long distance environments and packet failure such as the cellular network. PMRS has real time bandwidth control capability.



PMRS Features

- Video/Audio/location streaming: On alarm button On VMD event On user request
- Low latency streaming
- SMS alerts to cell phone/PDA
- Recording: Per alarm event Per VMD event Per user request
- Automatic bandwidth streaming control
- Built in Visual Motion Detection (VMD)
- Version upgrade on the fly

PMRS Unit hardware

- One RCA Analog Video Input PAL / NTSC DSP based video codec (H.264)
- Audio in/out
- 1 Video/Audio/Location out over IP
- Built-In Cellular engine module (HSPA/3G/EDGE/GPRS)
- Built-In GPS
- Built-in Alarm button
- Device Recording (micro SD)
- LAN Interface
- Lightweight small size (5x10x2.6 cm)
- Built-in lithium battery rechargeable (6 hours)
- 5V out port for camera
- Low power



PMRS Command & Control

- Multi unit real time streaming viewer
- Units are controlled and viewed from Control Center software suite (MRS Monitor)
- Multi viewer clients
- Bit rate/Frame rate user control
- Local recording (on Client machine)
- Video Recording, clip viewing
- User Authentication
- Server permission users/devices/actions
- Tracking history over map



iPhone/Smart Phone/PDA Clients

- Live streaming viewer

Internet Client

- Adobe flash media client



PMRS is an ideal solution for various mobile security applications



Personnel

Security and safety for personnel in the field. Monitor the visual point of view of personnel in the field live from any location.

Built in alarm button for emergencies and events.

Live recording of events for evidence.

View any event or emergency in the field live from a remote location.

Emergency Services

View live footage from any location of mobile patrols anywhere in the field.

Live video recording of any event in the field which can be used for evidence.

View the status of injured people in the field before they reach the hospital.

Live video footage of fires from any location.

Mobile Vehicles

Monitor mobile vehicles from anywhere (live video/audio/GPS streaming).

Monitor driver actions.

Live monitoring of cash or goods in transit.

Panic button for drivers in case of emergencies.

Public Transport

Security and safety for public transportation.

Live video footage inside public transport vehicles from any remote location.

Video recording for evidence.

Alarm button for drivers in case of emergencies.

(Once the alarm button is pressed, live video streaming will commence on the connected PC/Laptop).

Personal assets, strategic antennas and remote sites

Monitor personal assets from any remote location.

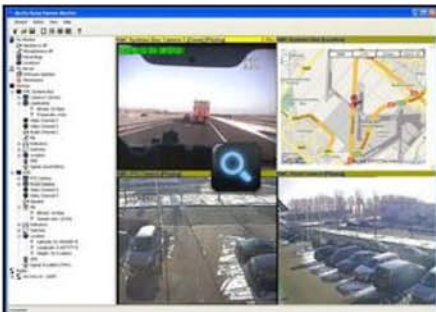
Live video and GPS tracking incase vehicle is stolen.

View live video footage from any location of strategic antennas or important remote sites (such as oil rigs, electric/water sites, etc).

Location and Video over map

The system has built-in GPS which monitors all device locations in one map. Each icon on the map allows the user to open floating windows for live streaming. In case of an alarm, the system will open the map with the alarm device and live video streaming will commence. The system supports Google maps and can integrate with other map systems.

Location history of all units or of specific unit can be viewed over map.



Technical Specifications

Video

Video Input	2.5 mm video/audio/power 5v plug PAL/NTSC
Video compression	H.264 Dual encoding (streaming/recording) CIF/D1
Bit rate	From 10kbs to 2Mbs
Frame rate	Up to 25/30
PTZ Control	Built-in RS-485 (T+, T-)

Audio

Audio Input	Built-in microphone or Line in
Audio output	Line out
Audio compression	AAC

GSM

GSM	Built-in (need only SIM) HSPA/3G/EDGE/GPRS
Antenna	Built-in
Bandwidth control	Automatic

GPS

GPS	Built-in Update every few sec
Antenna	External

Alarm Button

Push button	On surface
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Memory

Micro SD	Slot (max bit rate according to micro SD write speed) Up to 32g
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I/O

4 Input/4 output	Built-in Through cable interface Dry contact
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Power

Power Input	5V AC/DC to 5V adapters
Power consumption	500mA while streaming
Battery Lithium	Built-in 4000 mAh (5 hours streaming)
Power output	5v output to camera

Environment

Temperature Input	-10 +60
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Physical

Dimension	5 x 10 x 2.8 cm
Weight	130 gr.

Other Interfaces

USB client	Built-in For Setup
video/audio/power cable / Earphone/mic cable	Splitter cable with RCA, audio, 5V power
LAN	10/100 Built-in Through cable interface
Protocols	RTP/RTSP/SDP