

VideoModem™ VM1 Encoder

Product Overview

VideoModem™ VM1 is a simple to use and cost-effective solution for sending Electronic News Gathering (ENG) and video surveillance from areas with limited infrastructure. The use of cellular networks for transmitting secure video streams allows for ENG and surveillance monitoring at sites without telephone lines or wired internet access.

VideoModem VM1 streaming video capability provides state-of-the-art compression and encryption for secure video surveillance. Streaming video H.264 and JPEG images can be sent over a cellular or wi-fi or satellite network to the Colby Console software via standard IP networks.

Multiple VideoModem VM1s with attached cameras may be controlled and monitored simultaneously on any internet connected computer running Windows OS with the Colby Console Viewing Software.



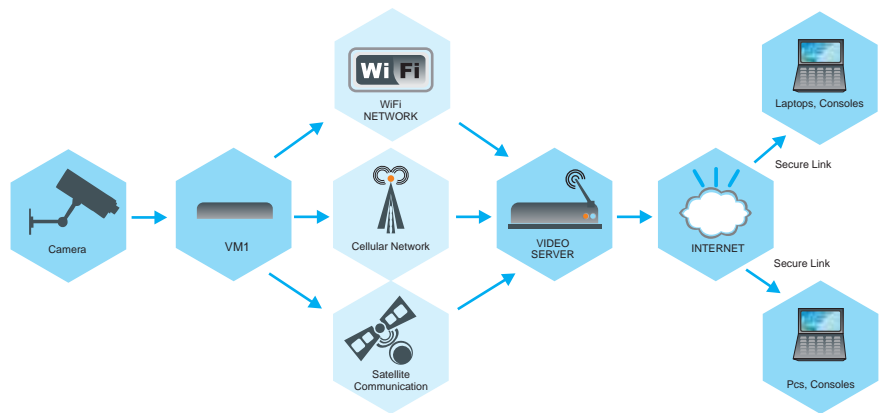
*It is small enough to slip into camera operator's coat pocket
"It's like having your ENG Van in your pocket"*



Colby Console viewing software

Options includes:

- ▲ Stereo audio
- ▲ Wi-Fi/Cell auto switch operation
- ▲ DualCell™ operation for twice the frame rate
- ▲ VirtuallyLive™ operation for highest quality
- ▲ 5 data Bi-Directional channels (configurable)



*Any number of computers
on the internet with the
correct password can
see the video and hear
the audio*

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KEY FEATURES

- Use with any 1vpp output composite video camera
- Cellular wireless ENG/Surveillance camera encoder
- Cellular connections using GSM/GPRS/EDGE, CDMA-1x, CDMA- EV-DO Rev A, WCDMA or HSDPA networks
- Configurable video streaming modes
 - Standards Based Video and Image Compression
 - Configurable video quality tuneable to network bandwidth constraints
- AES encryption available (optional)
- Session based recording (local storage) using USB storage device
- Intelligent real-time video streaming at 2 to 15 fps (frames per seconds) or 30 fps with optional wi-fi or DualCell™ modes
- Remotely control PTZ cameras from Colby Console GUI

OPTIONS

- Stereo audio
- 5 configurable Bi-Directional data channels PTZ control is one option
- VirtuallyLive™ mode lets you record 30 fps at D1 resolution to local USB thumbdrive and then automatically send file to other end. This is a useful mode when cell conditions are less than optimal
- DualCell™ mode lets you use two cell data modems simultaneously for twice the video frame rate.

VideoModem Applications



Power Lines Security



Remote Site Monitoring



Transportation Monitoring



Agriculture Monitoring



Construction Site Surveillance



Perimeter Security



Oil & Gas Pipeline Monitoring



Border Patrol



Building Security

SPECIFICATIONS

- ▶ 180MHz200MCPS Processor
- ▶ 32MB SDRAM
- ▶ 16MB FLASH ROM
- ▶ Hardware Encoder H.264 Video stream
- ▶ Embedded Linux 2.6

Video and Image

- ▶ Compression : H.264 Baseline profile for streaming video and JPEG snapshots
- ▶ Features : GUI based adjustable resolution, quality and bit-rate
- ▶ Resolution : DI, VGA, QVGA and QQVGA

Viewing System Requirements

- ▶ Operating System: Microsoft Windows 2000, XP, Vista
- ▶ Player Software Suite provided: Colby Console

Power Supply

- ▶ 8.5 to 32 VDC @ 300mA
- ▶ Optional Battery pack: 6 each 2600mAH AA Cells

Dimensions

- ▶ Length: 4.6" Width: 2.75" Height 1"
- ▶ Weight : 3oz

Networking

- ▶ GSM/GPRS/EDGE, CDMA-1x, 3G
- ▶ CDMA- EV-DO Rev A, WCDMA or HSDPA networks
- ▶ Protocols: UDP, TCP/IP, FTP, Telnet, DHCP
- ▶ Wi-fi access point
- ▶ Satellite link

User Provided Equipment

Requires user provided USB cell data modem from AT&T, Sprint, or Verizon (usually free when you sign up for unlimited data account. For wi-fi operation, requires USB wi-fi adapter configured for your wi-fi system. (Airlink model AWLL3028)

This is a truly unique and revolutionary product that has no competition in its price range or functionality

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* This device has not been authorized as required by the rules of the Federal Communications Commission. This device is not, and may not be, offered for sale or lease, or sold or leased, until authorization is obtained.