

Using VideoMover™ over BGAN

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Overview

The VideoMover™ streaming software solution designed in response to Television Broadcasters, Emergency Managers, and others that need a “software only” solution to quickly deploy a BGAN terminal for video streaming from remote location back to a receive station capable of viewing the video in real time over any Internet connected personal computer or optionally view via our client software. VideoMover™ is designed primarily for on-the-move operations when a BGAN terminal is used to transmit streaming video from inside a moving platform such as vehicles, trucks, trains, air planes or boats or ships. VideoMover™ is using the latest Microsoft codec designed around world class and award winning Media Encoder 9 and VC-1 codec with unmatched quality of video, built-in motion compensation for fast action events, automatic bandwidth adjustment over BGAN and CDMA networks. VideoMover™ has built-in automated store and forward, a new innovative BurstVideo™ technology option and highly streamlined picture capture/transmission. VideoMover™ is designed for high speed and high impact tactical operations where no knowledge of IP networking, router configuration, and codec selections are desired. VideoMover™ is a great choice for Storm Chasers, Hurricane Chasers and News Gathering professionals without compromising quality.

Product Range

. VideoMover™ Light

A highly optimized software system to stream live video over BGAN while recording the video at any quality desired within capabilities of BGAN network.

. VideoMover™ Plus

VideoMover™ Plus is an end to end software solution for Live Video streaming, “Store and Forward Video, and picture transmission bundled with Broadcast Receive software that includes Administration Module, Play List Editor, and On Air Presentation. The entire Broadcast Receive software can be ported to a website for easy transport and viewing of video clips, images, and live video stream.

. iSOFT-VC™

iSOFT-VC™ is based on popular H.264 video codec designed for 2 way video conferencing over BGAN. The video conferencing software supports BGAN streaming class via static IP address. The iSOFT-VC software is based on Client (Receive Side) and Server software (Send Side) bundled with Live Video Streaming, telephone book, and direct support for many BGAN terminals.

. FotoMover™

FotoMover™ is an automated picture capture and transmission software based on any desired interval. Fotomover™ can capture images from any camera source and transmit over BGAN network to a client software or a web based presentation portal for near real time viewing of the images from remote.

Typical users:

- . Broadcast Professionals such as Storm Chasers, Hurricane Chasers
- . Mobile News gathering teams
- . Emergency Manager
- . Security teams needing remote Live streaming Video while on the move
- . Oil & Gas operations
- . Remote construction sites
- . Remote viewing
- . Vehicular video transmission and streaming

Key Features

VideoMover™ software solution offers these key features:

- . World class standard using unmatched Microsoft compression and decompression core engine
- . Additional motion compensation for smooth vehicular operations from the eye of camera
- . Automatic “on the fly” adjustment of bit rate
- . Automatic adjustment of frame rate based on currently available bandwidth at any given moment in time
- . Designed around characteristics for BGAN and CDMA wireless
- . Counter effect bandwidth modulations and rubber band effects of wireless networks
- . Simple to use STOP and START operations via software – no hardware encoder/decoders
- . Works with any Windows PC hardware – Notebooks, UMPC and Desktops
- . Accepts any video input – USB, 1394, RCA, SVHS
- . Accepts any video signal – NTSC, PAL, SECAM
- . Stream live video with or without audio
- . Built-in BGAN templates for background IP, 64, 128 and 256k streaming class
- . Stream “one to one” or “one to many”
- . iSOFT-VC™ - 2 WAY video conferencing over BGAN with H.264 software codec.
- . Built in “Store and Forward” Video, BurstVideo™, picture transmission and FTP module
- . Built- in PlayList, administration software, and on-air presentation software
- . Designed for vehicular operations

Benefits to BGAN users

- . Fast tactical deployment of any BGAN terminal with a notebook pre-loaded with VideoMover™
- . No training needed – If you can use word processor, you can use VideoMover™ software.
- . Real time streaming video over BGAN from remote location to a receive station
- . Proven and field tested.

Setting up

If you are using the VideoMover™ streaming software inside a moving platform (such as vehicles, trucks, trains, air planes, boats, or ships), simply turn the BGAN terminal on while attached to a notebook PC. Double click on VideoMover™ icon on your desktop. You are streaming to a receive station.

Equipment needed:

SEND station:

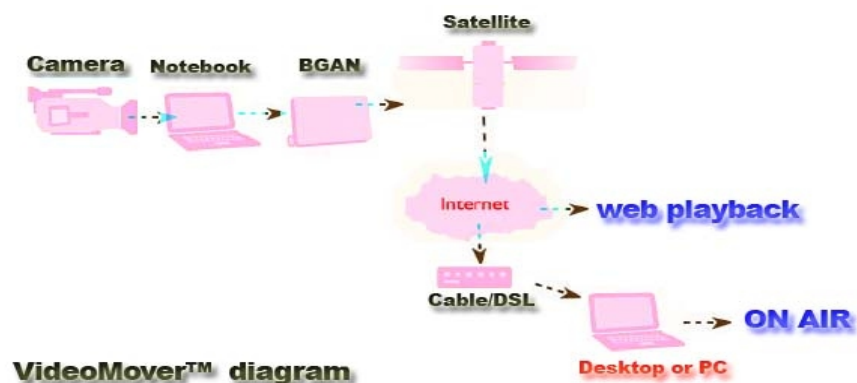
- . Any BGAN terminal such as Thrane & Thrane or other BGAN certified equipment
- . STATIC IP address for the SIM card
- . Computing platform with Microsoft Windows XP Service Pack 2 or better
- . Any camera with USB or FireWire connection

RECEIVE station:

- . BGAN terminal or Internet connection matching or exceeding maximum speed of SEND station
- . Use web browser or our Broadcast Receive software to view live streaming video
- . Use web browser to view "Store and Forward" video, BurstVideo™, or images in near real time



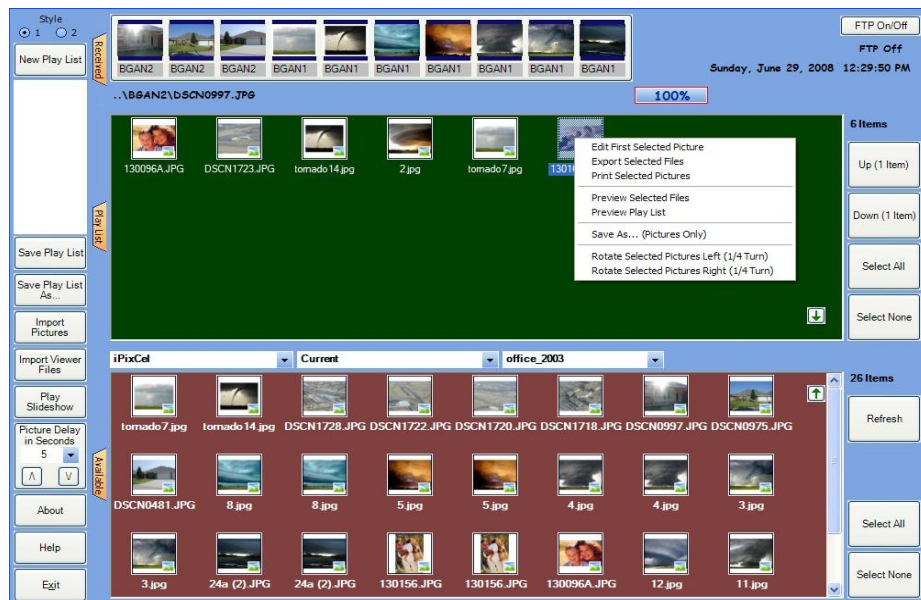
Screenshots of VideoMover™ and VideoMover™ light, software



VideoMover™ diagram from camera to receive station using BGAN network



A typical Vehicular installation of VideoMover™ with vehicular BGAN terminal



VideoMover™ Receive client software

Customization

VideoMover™ software is highly customizable to change templates, frame rate, key frame, frame size, bit rate, video quality, video source, audio quality, and audio source for “Store and Forward” Video, BurstVideo™, and Live Video. VideoMover™ works with any wired or wireless network based on TCP or UDP protocols. UDP value can be set via software. No external hardware needed.

Technical summary

The technical feature set for iPixCel software solutions for BGAN network

Media solution summary sheet	VideoMover™ Live streaming	ISOFT-VC™ video conferencing	FotoMover™ picture transmission
Integral BGAN Support	Y	Y	
H.264 AVC Codec		Y	JPG,, BMP
H.264 AVC High Definition	Y	Y	
H.264 AVC Live		Y	
FTP and Store and forward	Y	Y	Y
Hardware solution	N	N	N
Software solution	Y	Y	Y
Supported Operation system	Windows XP	Windows XP	Windows XP
NTSC & PAL Support	Y	Y	Y
Decoder output	Windows Media, H.264	H.264	WEB portal or Broadcast Receive Software
Return audio feed using BGAN forward channel	Y Via BGAN phone	Included	
BGAN ISDN/Standard IP and Streaming IP support	Y- Dial up at 64k Euro ISDN	Y – Dial up at 64K Euro ISDN	
BGAN IP Addressing requirement	Static IP	Static IP	Background IP
Simultaneous Live and S&F support using BGAN TFT (secondary context)	Y	Y	



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