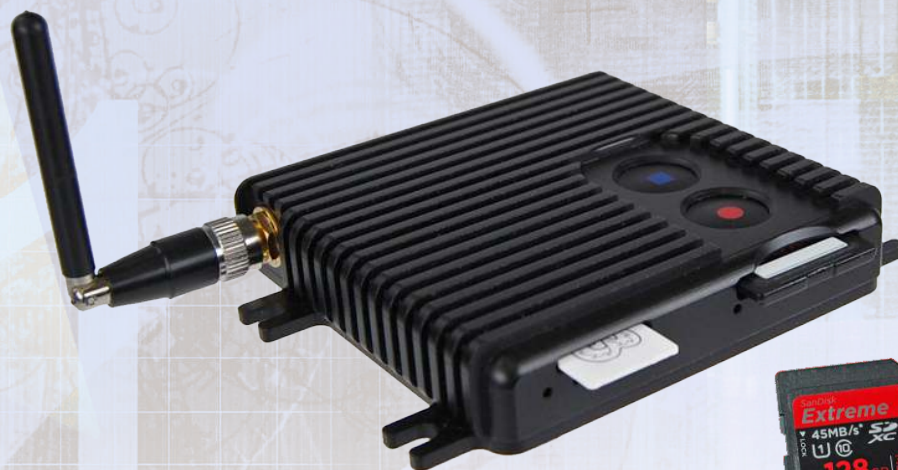


## FlashBack-3G

Covert Video Recorder & 3G Streamer



## Miniature H.264 SD Card Digital Video Recorder and Streamer with Internal 3G Modem

- Highly compact and rugged SD card digital video recorder (DVR) with internal 3G modem.
- Industry standard H.264 compression for ease of streaming and playback.
- Local recording to removable SD card of up to 128 GB providing up to 4.5 days of real-time recording, even longer with time-lapse recording.
- Simultaneously record and live video stream.
- Advanced triggers: two external inputs along with internal timers, audio level trigger and zoned video motion detection.
- RS232 interface for connection to external GPS receivers or PTZ camera mount.
- Operates with FindMe, Ovation's PC device manager showing:
  - List of remote units connected to LAN or the internet
  - Live video & audio streaming
  - Time-line of recordings with audio & motion activity
  - Download and playback of recorded files or clips
  - Live GPS position on Google maps with track (when GPS receiver connected)

FlashBack-3G is a new addition to Ovation Systems' highly successful FlashBack-3 range of covert SD card digital video recorders. This new product retains all the key features of the existing system, such as full resolution H.264 video compression, internal timers, audio level and video motion detection but now with the addition of an integrated 3G modem. Furthermore, the maximum SD card capacity has been increased from 32 to 128 GB providing over 4 days of high quality real-time video recording.

The internal 3G modem provides remote access to the DVR / streamer via a cellular network provider. An intermediary server architecture is employed so connection can be made with any SIM without the need for fixed IPs etc. In conjunction with FindMe, Ovation's remote device manager PC application, it is possible to record locally while simultaneously streaming live video to a remote surveillance point. FindMe shows a time-line of the remote recordings with a graph of motion activity and it is easy to select and download clips of interest for review. FlashBack-3G includes an RS232 port, which can be used to control a pan-tilt-zoom (PTZ) camera mount or connected to a GPS receiver where FindMe can show the current GPS position with historical track.

FlashBack-3G is fitted with Ovation's new i-Conex interconnection system, greatly simplifying installation via a range of interface cables to commonly used power, video and audio connectors. Despite all its functionality, FlashBack-3G is incredibly small, measuring just 78 x 78 x 18 mm (3.1 x 3.1 x 0.7 inches), making it ideal for covert surveillance deployments.

**i-Conex**

Miniature Inter-Connection System

FlashBack-3G is fitted with Ovation's i-Conex miniature interconnection system for ease of wiring and installation

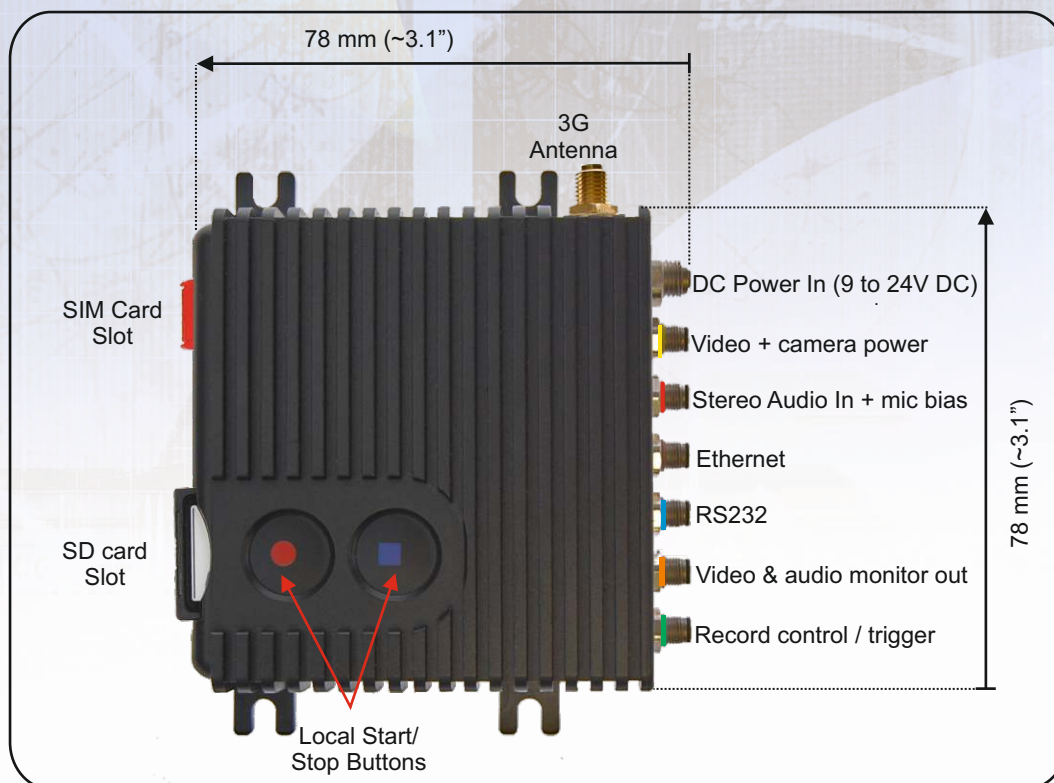




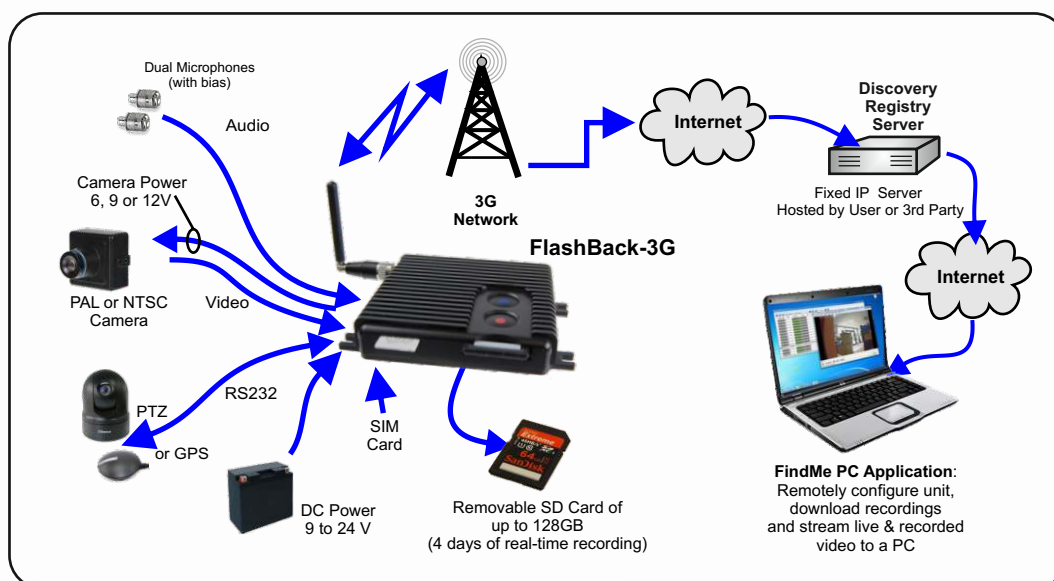


# FlashBack-3G

Covert Video Recorder & 3G Streamer



**FlashBack-3 G Controls and Interfaces**



**FlashBack-3G System Diagram**







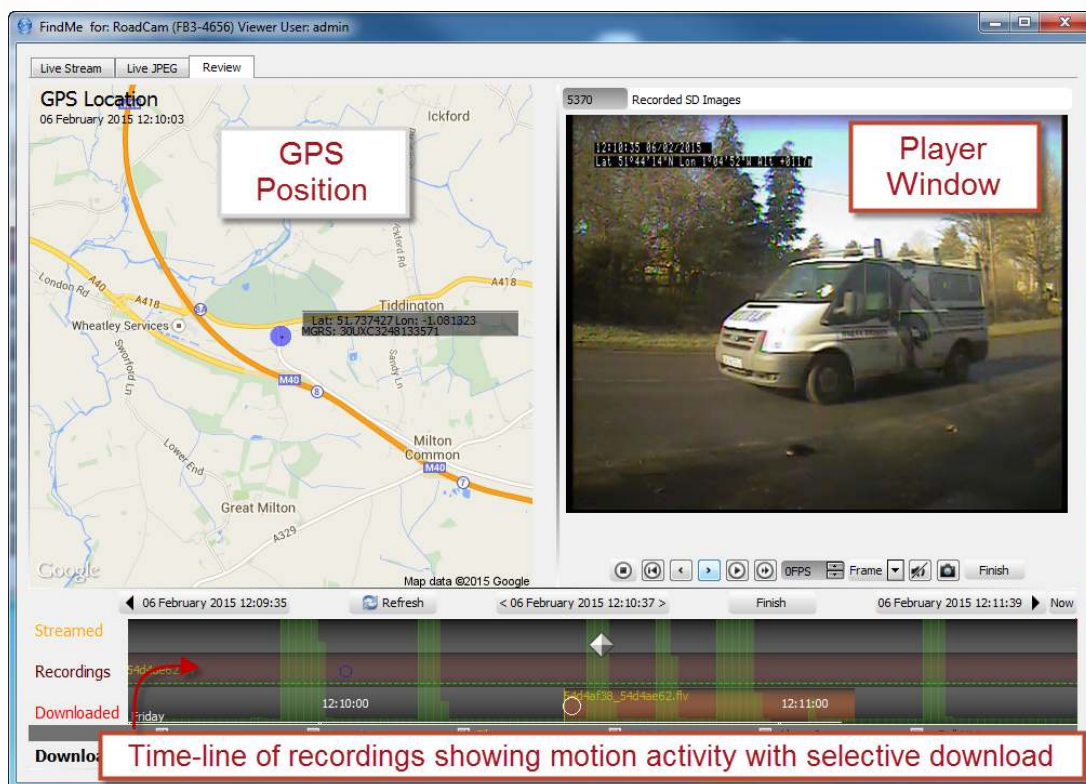
## Operation of FlashBack-3G with FindMe:

FindMe is a PC application that locates and lists all the FlashBack devices connected to your LAN or the Internet. Connection is made via a fixed IP server which removes the need for configuring router firewalls and allows multiple users to view the streamed video. This server can be hosted by a third party ISP or on a PC within the client's own network.

	Device Type	Name	Internet	Local	Port	Version	Status	Last Alarm	Last Contact	Row
1	FlashBack3G	FB3-4650	81.187.100.246	192.168.1.55	50240	4.1-6910	Idle	No Event	16 January 2013 16:38:10	
2	Afterburner2	AB2-33595	81.187.100.245	81.187.100.245	12000	1.9-1024	Record	16 January 2013 16:38:07	16 January 2013 16:38:08	
3	FlashBack3G	FB3-5080	94.197.117.207	192.168.0.123	12000	4.1-6920	Idle	16 January 2013 16:11:02	16 January 2013 16:38:10	
4	FlashBack3G	FB3-4656	84.12.87.71	192.168.1.4	55002	4.1-6914	Idle	No Event	16 January 2013 16:38:13	

**FindMe: locates and lists Ovation devices connected to a LAN or the Internet**

Once contact has been established in FindMe, each device has a Viewer page which displays the live stream or plays recorded video that has been downloaded from the remote device. To aid the selection of clips of interest before download, the Viewer has a timeline of available recordings, overlaid with video and audio activity graphs. A simple right-click on the time-line is all that's required to download a file or clip for review. If a GPS receiver is connected to the target FlashBack-3G, the Viewer shows a Google Map of the current position with a historical track of previous positions synchronised with the video playback. It is also possible to view recordings from an SD card removed from a FlashBack-3/3G with full GPS tracking.



**FindMe Viewer plays live or download video. Timeline of available recordings with graphs of video and audio activity to aid selection before download.**







## Specification & Key Features:

### General:

Size:	78 x 78x 18mm (3.1 x 3.1 x 0.7 inches)
Finish:	Black, hard anodised aluminum
Operating temperature range:	-10 to +50°C (SD card dependent)
DC power input range:	9 to 24 V DC Typical 2 Watts recording, 4 Watts recording and streaming
Connectors:	Ovation i-Conex
Local interfaces:	<ul style="list-style-type: none"><li>&gt; Bi-colour LED showing DVR status</li><li>&gt; Single SD card slot</li><li>&gt; Format switch (push switch)</li><li>&gt; Record start / record stop buttons</li><li>&gt; SIM card slot</li><li>&gt; 3 LEDs showing 3G connection status</li></ul>
Configuration:	Webpage interface accessible via Ethernet port or 3G interface.
Recording medium:	SD card. SDHC and SDXC (up to 128 GB) supported.
Power-up record time:	< 30 seconds.
Record file format:	H.264 compression, .FLV files.
Record control (start/stop recording via):	<ul style="list-style-type: none"><li>&gt; Local start / stop buttons</li><li>&gt; 2 external inputs (record switch and trigger via contact to earth)</li><li>&gt; Internal audio level and motion detector with selectable zones of interest</li><li>&gt; Internal timers</li><li>&gt; Remotely via Ethernet or 3G interface</li></ul>

### Video and Audio:

Video Input format:	PAL & NTSC.
Video record resolution:	PAL: 720 pixels x 576 lines NTSC: 720 pixels x 480 lines
Video compression:	H.264, 0.5 to 5 Mbits/sec.
Record time per Gigabyte:	Video Quality Bit Rate Extra high: 4.5 Mbps 30 mins/GB. High: 3.0 Mbps 45 mins/GB. Medium: 2.0 Mbps 66 mins/GB. Low: 1.0 Mbps 2 hrs 12 mins/GB.
Onscreen Display:	Text overlay of date/time in European and US formats, GPS lat/long coordinates
Video record frame rate:	PAL: 25 frames per second to 1 fps, NTSC: 30 frames per second to 1fps
Number of video inputs:	1 record channel with 2 switchable inputs
Camera power:	5V (500mA Max), 9V (300mA Max), 12V (200mA Max).
Audio inputs:	2, configurable as stereo or double mono.
Audio input level:	Microphone to line level with automatic gain control, selectable internal microphone.
Audio:	AAC Compression, 16 bits, 8 to 48 kHz sampling.
Video & audio monitor output:	Monitor of input video overlaid with onscreen display overlay. Audio after microphone gain.

### Internal 3G Modem:

Bands:	Quad 850/900/1800/1900 Mhz.
Formats:	GSM/GPRS/EGPRS/HSPA
Video streaming rates:	10kbps to 1 Mbps

### Rs232 Port:

Rs232 Modes:	<b>GPS:</b> Read Rs232 NEMA sentences and display lat/long coordinates on the recorded video and log GPS movements for remote download. <b>PTZ:</b> Send commands to PTZ camera mount in Pelco-D or Visca formats. <b>Pass-through:</b> possible to transparently telnet Rs232 commands to and from port.
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**Please note:** Ovation Systems reserves the right to change specifications without notice. E&OE

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