

Key Benefits:

- *Lightweight*
- *Ultra thin, Ultra small*
- *Color digital camera*
- *High quality audio*
- *Removable Compact Flash card – no downloading!*
- *Maximum flexibility*
- *Concealable*

Best Uses:

- *Body worn surveillance*
- *Fixed installations*
- *Concealments*

Who Needs This?

- *Live surveillance teams*
- *Counter-drug operatives*
- *Technical investigators*
- *Intelligence and counter-intelligence operators*
- *Military LE groups*
- *IG offices*



GSA Advantage

Federal Supply Schedule

#GS-03F-4062B

For more information or to receive a price quote, visit the DAC website at www.dacaudio.com or send us an email at sales@dacaudio.com.



Digital Audio Corporation
a DRI company

BUTTERFLY

Solid-State Covert Video Recorder



BUTTERFLY is a compact, digital video / audio recorder. Beneath its lightweight, resistant aluminum shell exists a high quality audio recorder and miniature color video camera. An ultra-thin, flexible cable connects the recorder unit to the camera via nano connectors. With its high quality picture, easily configurable parameters, large recording capacity, and application variability, this device is considered the smallest premium digital audio/video recorder on the market. And with the flexible software interface, the BUTTERFLY can be easily customized to any application. Manufactured by LEC in Czech Republic and represented by DAC in the United States, BUTTERFLY brings cutting-edge video plus audio recording technology to any operation.

Product Highlights:

- **Removable Media Card** – Video files are stored on PC – readable Compact Flash memory card. 2GB, 4GB, 8GB options available.
- **No Special Download Software Necessary** - The recorder maintains standard AVI file format with easy single frame extraction to JPG format. The memory card can be formatted directly by the recorder. Process the recording in any PC – No special software necessary!
- **Power Options** – A small Lithium-Polymer rechargeable battery on board the unit allows for approximately 2 to 3 hours of record time. Optional external battery offers longer record time, and external power supply offers unlimited usage. Software settings and CF card also factor into est. recording times.
- **Manual or Auto Recording** – BUTTERFLY records either manually (via button, external controller, or external voltage signal) or automatically, via real-time clock timer or VOX control function. And BUTTERFLY is flexible enough to allow a combination of each control method!
- **Concealable** – Dimensions of 3 x 2 x .3 inches – including battery, memory card, and housing. BUTTERFLY truly is the smallest premium A/V recorder on the market today!

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BUTTERFLY

SPECIFICATIONS

GENERAL

Storage Medium	Removable Compact Flash card, Type 1 (Type 2 on request)
File System	MS-DOS/Windows FAT-16 compatible (FAT-32 optionally)
File Format	AVI MJPEG standard, WAV audio (directly playable on PC)
File Limit	Max. 4 GB in single file
Image Size	Unlimited (depending only on camera)
Audio converter	16 bit @ 16 kHz, single channel, digital FIR filter
Microphone	Integrated electret, Knowles FG-series, or External
Mic Powering	DC 1.2 V regulated, 0.1mA, max
Controls	Manual, external control, timer control, (motion detector on request)
Battery	Built-in Varta Lithium-Polymer, 3.7 V, 900 mAh approx.
Charger/supply	Switched power supply adapter, DC 5 V regulated, 1 A
External power	Possible, DC 3.6 to 5.3 V, 1 A max.

Power consumption:

- Running, maximum: 1 A (depending on function and CF card)
- Recording, typical: 350 mA (depending on CF card and setting)
- Standby: 2 mA typical

Recording time	Depending on the CF card and the settings, 2 to 3 hrs. approx.
Connectors	2 piece AirBorn 9-pin nano-connector, gold plated, screw-jointed, one for camera, second one for PC, power supply, charger, external microphone & control
Housing	Rugged aluminium enclosure w/ black finish
Dimensions	76 x 51 x 8.5 mm (3 x 2 x 0.33 inch) with housing and battery 48 x 37 x 6.5 mm (1.87 x 1.14 x 0.26 inch) basic unit, without housing and battery
Weight	# g (with housing and battery, without memory card) # g (basic unit, without housing and battery)

MEASUREMENTS

Unit Size: 3" X 2" X .3" (including battery, memory card and housing). Highly resistant and lightweight aluminum housing.

Power: Li-Pol internal rechargeable battery (recording time approximately 2 hours); Optional external battery for extended record time; Optional external power supply for unlimited record time; 70% less power consumption compared to analog camera devices

Video Recording: Removable Compact Flash memory card; Records in standard AVI format; Utilizes MS-DOS / Windows compatible file system; Video files are stored on PC – readable Compact Flash Memory card; Easy single frame extraction (AVI to JPG). No special software needed.

Resolution: Standard camera supports 640 x 480 Pixels @ 25 or 30 fps; Future support for higher resolutions

Standard Camera: Proprietary miniature color digital camera with exchangeable lenses; camera dimensions (.71" X .71" X .47")

Audio Recording: Integrated digital audio recorder with sampling rate up to 16kHz @ 16 bit; Integrated high quality microphone; nano connector for external microphone

Control Methods: Manual, External, and Timer

Configuration Software: 8 different resolution modes (from 160 X 120 to maximum); 6 frame rate modes (1 to 30 fps); 6 different compression levels; Timer controlled recordings. All settings can be configured with respect to desired operational quality and record time needs.

STANDARD CAMERA

Type	Proprietary miniature color digital camera
Sensor	OmniVision RGB CMOS, ¼ inch
Resolution	Up to 640 x 480 pixels
Frame Rate	Selectable 25 or 30 fps
Lens Mounting	Zavit 8 mm x # mm
Standard Lenses	Pinhole type, 5 mm focal length (3.6 mm optional)
Power Rating	DC 4,V
Housing	Rugged aluminum enclosure (black)
Mounting	Zavit
Cable	1.5m, ultra thin, flexible shielded Polyester cable
Dimensions	.7 X .55 X .7 inches without lens and camouflage
Weight	#g (without lens and camouflage)

BASIC PACKAGE

- Recorder unit • Camera with lens • 2GB Compact Flash Card • CF – PC card adaptor • Screw driver • USB Cable • Power supply • CD ROM with software • Printed manual • Transport case

OPTIONAL ACCESSORIES

- Additional camera • Additional lenses • Camera camouflages • External mic • External microphone with controller • CF cards • USB 2.0 card reader

PC REQUIREMENTS

- USB 2.0 port • CD-ROM drive • compatible sound card • MS Windows 2000 or XP • Media Player 9 or higher • Compact Flash slot and S-video output recommended