

Convergent Design

nanoFlash



features

Introducing a revolutionary new extremely compact, lightweight, highly portable, low-power, solid-state HD/SD recorder/player from Convergent Design - **the nanoFlash.**

Integrated Sony XDCAM 4:2:2 Hardware CODEC
100+ Mbps Long-GOP or 160+ Mbps I-Frame mode
video quality is indistinguishable from
uncompressed

Complements Portable HD/SD Deck, ENG, EFP
in car, 3-D, Helmet Cams, Medical, Video Assist, etc.

It is also camcorder
mountable.

Ideal for On-Set Review,
Presentations, Museums,
Theme Parks, Trade Shows
and Digital Signage.
Also complements high
quality distribution as a
HD Source deck for cinemas.



- Wide Format and Bit-Rate Options
- Records native Quicktime or MXF files to affordable Compact Flash media
- Master Quality I-Frame 4:2:2 @ 220 Mbps or XDCAM 422 @ 160 Mbps
- HD/SD-SDI and HDMI (mini HDMI "c" type connector) In/Out with bi-directional conversion available
- Two Compact Flash (CF) card slots
- 24-bit/48K audio: embedded or analog inputs, headphone/line output and level metering
- Comprehensive NLE Support
- All Solid-State design with no moving parts
High Gs, Rugged all-aluminum construction
- Low operating cost
- File-based tapeless workflow
- ASI Encode/Decode option for microwave uplink, QAM Modulator, Video Server4, etc Applications and benefits from image acquisition to programme delivery
- **All this . . .**
and it fits into the palm of your hand

**Demonstration units, stock and
product training support available from
POLECAM.**



nanoFlash

specifications

Powerful File-Based Tapeless Workflow	Industry QuickTime (.mov) or MXF File Format Record File size adjustment 100-20% (3.67GB-735MB) (5 - 1min. approx) Free Quicktime ~ MXF Converter (MAC Only) Instant Playback of any clip MetaData support, SDI Playback and time lapse
Future	
Format and Bit-Rate Options	1080i60/50, 1080psf30/25/24 1080p30/25/24, 720p60/50, 576i/480i I-Frame Only 4:2:2 @ 140/160/220 Mbps XDCAM 422 @ 50/100/140/160 Mbps XDCAM EX @ 35 Mbps IMX (Standard-Def) at 30/50 Mbps
CompactFlash Based Design	Two card slots Seamless recording from card to card
Time code	Embedded, Internal or from external LTC input
Recording / Playback Capabilities	Remote record start/stop with Tally LED (GPI) Pre-Record Buffer (around 4.5 seconds) for bit rates up to and including 160 Mbit RS232/RS485 control
Future	Over/Under Crank, GPS, Blu-Ray encoding ASI Encode/Decode: MPEG2 TS available soon
Audio	24-bit/48K audio SDI embedded / Analog input select. Headphone/line output. 2 Audio level meters
Analog audio input	PCM 24-Bit (recording) / MPEG1 Layer II (ASI) Balanced Mic input or two unbalanced Mic input mode selection (stereo)
NLE Support	Final Cut Pro; Avid Media , Edius 5, Sony Vegas, and soon Adobe Premiere CS3 & 4
Camera PSF Video output	Progressive Segmented Frame Video On / Off
Remote Control	Remote record GPI / tally and serial RS232/485 control via feature connector
Unit ID	Unit ID (01-99)
Additional Features & Firmware Updates	From www.convergent-design.com
Mount	1/4" UNC (centre back) - may be mounted on a camcorder Also M3 x 0.5 tapped holes for mounting plate
Power Requirements	6.5 ~ 19.5V, 6W Active / 0.2W Stand-By Includes battery voltage monitor Supplied with Power Supply 100 - 240 V AC Input; 12V DC @ 1.25A Output Contact Polecam for compatible battery options
Weight	383g (under 1lb) without CF Cards
Dimensions	107 x 94 x 36mm (4.2x3.7 x 1.4") (length x width x depth)
Temperature Range	Internal -20° C to 80° C External -40° C to 60° C (approx.)
Humidity	Operating: Less than 80% (non-condensing) Storage: Less than 90% (non-condensing)
Optional Accessories from POLECAM	Remote Start Pickle switch Mini battery pack systems for helmet cam, etc Contact us for further details



Recommended CF Cards	
Bit rate	
≤ 160 Mbps	SanDisk Extreme III 32 Gbyte
≤ 220 Mbps	SanDisk Extreme IV 16 Gbyte
≤ 220 Mbps	Delkin UDMA 16 Gbyte
≤ 220 Mbps	Lexar 8/16 Gbyte 300x



Recording Time (minutes) *	Recording Time (minutes) *	
	Two 16GB CF Cards	Two 32GB CF Cards
19 Mbps	210	420
50 Mbps	80	160
100 Mbps	40	80
220 Mbps	18	N/A

* Scene content & mode dependent

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