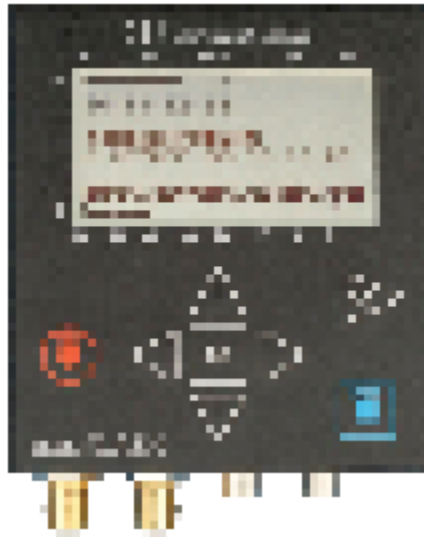


# NANO FLASH



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.

- 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

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POLECAM



# SPECIFICATIONS

# POLECAM



|  |  |
|--|--|
| Powerful File-Based Tapeless Workflow  | Industry QuickTime (.mov) or MXF File Format<br>Record File size adjustment 100-20% (3.67GB-735MB) (5 - 1min. approx)<br>Free QuickTime ~ MXF Converter (MAC Only)<br>Instant Playback of any clip       |
| Future                                 | MetaData support, SDI Playback and time lapse  |
| Format and Bit-Rate Options            | 1080i60/50, 1080psf30/25/24<br>1080p30/25/24, 720p60/50, 576i/480i<br>I-Frame Only 4:2:2 @ 140/160/220 Mbps<br>XDCAM 422 @ 50/100/140/160 Mbps<br>XDCAM EX @ 35 Mbps<br>IMX (Standard-Def) at 30/50 Mbps |
| CompactFlash Based Design              | Two card slots<br>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)<br>Pre-Record Buffer (around 4.5 seconds) for bit rates up to and including 160 Mbit<br>RS232/RS485 control  |
| Future                                 | Over/Under Crank, GPS, Blu-Ray encoding<br>ASI Encode/Decode: MPEG2 TS available soon  |
| Audio                                  | 24-bit/48K audio<br>SDI embedded / Analog input select. Headphone/line output.<br>2 Audio level meters   |
| Analog audio input                     | PCM 24-Bit (recording) / MPEG1 Layer II (ASI)<br>Balanced Mic input or two unbalanced Mic input mode selection (stereo)  |
| NLE Support                            | Final Cut Pro; Avid Media , Edius 5, Sony Vegas, and soon<br>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 <a href="http://www.convergent-design.com">www.convergent-design.com</a>  |
| Mount                                  | 1/4" UNC (centre back) - may be mounted on a camcorder<br>Also M3 x 0.5 tapped holes for mounting plate  |
| Power Requirements                     | 6.5 ~ 19.5V, 6W Active / 0.2W Stand-By<br>Includes battery voltage monitor<br>Supplied with Power Supply 100 - 240 V AC Input; 12V DC @ 1.25A Output<br>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<br>External -40° C to 60° C (approx.)   |
| Humidity                               | Operating: Less than 80% (non-condensing)<br>Storage: Less than 90% (non-condensing)   |
| Optional Accessories from POLECAM      | Remote Start Pickle switch<br>Mini battery pack systems for helmet cam, etc<br>Contact us for further details  |
| Compact Flash Cards                    | Only use Convergent Design recommended CF cards (may vary with firmware)<br><a href="http://www.convergent-design.com">www.convergent-design.com</a> Click 'Media'                                       |

| Bit Rate | 1x16GB | 1x32GB | 1x64GB | 2x32GB | 2x64GB |
|----------|--------|--------|--------|--------|--------|
| 50Mbps   | 36     | 75     | 150    | 150    | 300    |
| 100Mbps  | 18     | 37     | 75     | 75     | 150    |
| 180Mbps  | 10     | 20     | 40     | 40     | 80     |
| 280Mbps  | 7      | 14     | 28     | 28     | 56     |