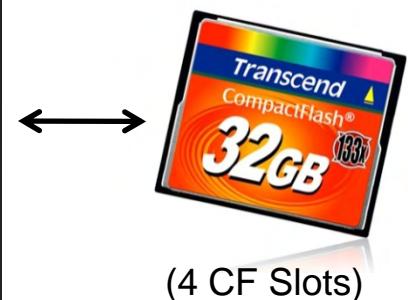


# Unlock the Quality Potential of Your POV / HDV / XDCAM / HDCAM Camera; Enjoy the Benefits of Tapeless Workflow

## HD-SDI Camcorders



HD-SDI



(4 CF Slots)

## HD POV Cameras



### Flash XDR: Superb Audio / Video + Tapeless Workflow + ASI I/O

Break-through the limitations of low bit-rate 3:1:1 / 4:2:0 sub-sampled (1440x1080) recording and unlock your camera's full video-quality potential. Unlike Firewire drives, which provide no quality improvement whatsoever, Flash XDR captures the never-compressed HD-SDI output using a world-class 4:2:2 full-raster (1920x1080i/p) MPEG2 CODEC at bit-rates up to 160 Mbps (4X to 6X that of HDV).

Flash XDR virtually eliminates motion-artifacts, mosquito-noise and keying problems. Superb 24-bit uncompressed audio (mic or line input) complements the stunning video.

The camera-mountable, low-power, all solid-state design utilizes affordable Compact Flash media to provide 2.5 hours recording time (100 Mbps) using four 32 GB cards. Industry standard MXF file format ensures easy transfer to leading NLE programs with all the benefits of a tapeless workflow, including fast downloads and metadata support. Additional features include 24p pull-down removal, time-lapse recording and automatic backups (RAID1).

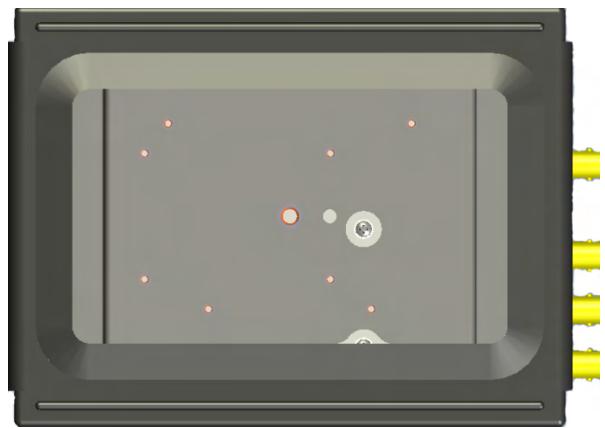
Flash XDR comes at the break-through price of US \$4995. Add ASI I/O for US \$995 for satellite uplink and IP connectivity. **Finally, this Fall, Flash XDR will break-through the final quality barrier with an un-compressed 4:2:2 10-bit optional software upgrade!**



Convergent Design



**Left Side**  
Compact Flash Slots  
With and Without Cover



**Bottom View**  
IDX, Anton Bauer, and  
TriPod Mounts



**Right Side View**  
Audio Inputs (L & R)  
Combo Audio Outputs



**Top View**  
LCD Panel, Function Keys  
Status LEDs, Record, Stop, Play



**End View**

Power In (XLR), HP Out, GPIO, RS-422, On/Off  
TC I/O, 1394, SDI Out, SDI/ASI Out, SDI / ASI In

## Flash XDR™

### Portable HD Field Recorder

7x5x1.7" (127x44x178mm)

1 lb (0.5 kg)  
10 Watts



# Flash XDR

## Outstanding A/V Quality / Tapeless Workflow



High-Performance  
Solid-State Media



FireWire-800 Reader  
340 Mbps I/O

## MPEG2 HD422

CompactFlash®

### Innovative CompactFlash Based Design

- Industry-standard, non-proprietary memory
- Widely available, 16GB costs ≈ US \$200
- Hot-swappable, non-volatile, highly reliable
- Long-life: 10K Insertions / Removals

### Powerful File-Based Tapeless Workflow

- Industry Standard MXF (OP-1A) File Format
- XML Based Meta-Data
- High-speed transfer via USB, Express Card, or Firewire-800

### True “Field” Recorder

- Small Size, Lightweight, Low Power, No Fans
- Rugged Industrial Design: aluminum chassis with rubberized protective jacket
- All Solid-State construction, no heads to crash or tapes to jam
- 6 User-Programmable Function Keys
- 16 User-Defined Presets (video / audio setup, metadata)
- Locking connectors and lockable keyboard
- Multiple units can be simultaneously triggered

### Unique Recording Capabilities

- Time-Lapse Recording (I-Frame Only)
- Pre-Record Buffer
- 24p Pulldown Removal and Image Flip
- Audio / Video Sync Adjustment
- RAID 1 (Redundant) Recording Capability
- Programmable triggers: GPIO, Incrementing Time-Code, etc

### Outstanding Audio / Video Quality

- High Quality Sony MPEG2 CODEC
- 4X to 6X the Data-Rate of HDV
- MPEG2 4:2:2 Full-Raster (1920 x 1080)
- Long-GOP up to 100 Mbps, I-Frame up to 160 Mbps
- 16/24-Bit Uncompressed Audio
- **Uncompressed 8/10-bit 4:2:2 Option (Fall 2008)**

Approx. Record Time (Four 32GB Cards)

Video Format	720p50 @ 50 Mbps	1080i60 @ 50Mbps	1080i60 @ 100 Mbps	1080p24 4:2:2 10-bit Uncompressed
Record Time (Mins)	284	284	142	17

# Flash XDR™

## CompactFlash® Based, HD Xstream Data Recorder

### Highlights

- **HD-SDI ↔ 18, 19.7, 25, 35 Mbps 4:2:0, or 50, 100, 160 Mbps 4:2:2 MPEG2 Bit-Rates**
- **HD-SDI** Input (with 4-channel embedded audio and time-code)
  - 1080i60/59.94/50, 1080p30/29.97/25/24/23.98, 720p60/59.94/50
- **MPEG2 Profiles Supported**
  - 422P@HL: 100, 160 Mbps VBR (1920x1080i/p, 1280x720p, 4:2:2, I-Frame Only)
  - 422P@HL: 50, 100 Mbps VBR (1920x1080i/p, 1280x720p, 4:2:2, Long-GOP)
  - MP@HL: 18, 35 Mbps VBR (1440x1080i/p, 4:2:0, Long-GOP) (XDCAM HD)
  - MP@H-14: 25 Mbps CBR (1440x1080i, 4:2:0, Long-GOP) (HDV-2)
  - MP@HL: 19.7 Mbps CBR (1280x720p, 4:2:0, Long-GOP) (HDV-1)
- **Inputs:** HD-SDI / ASI (Option), Balanced Stereo Analog Audio (XLRs) – switchable between line and microphone levels with 48V phantom power (mic preamp with 0 to 65dB gain), Time-Code (LTC)
- **Outputs:** 1394 (6-pin), HD-SDI (re-clocked) / ASI (Option), Balanced Stereo Analog Audio (XLRs)
- **Audio Input Source:** 2-channel analog balanced or 4-channel HD-SDI embedded
- **Audio Formats:**
  - MPEG1 Layer 2 (384 Kbps: 2-Channel, 192 Kbps: 4-Channel)
  - Uncompressed PCM Audio (4 Channel, 48-KHz, 16/24-Bit)
- **Compact: 6.0”(W) x 2.5” (H) x 8.0”(D),** (152 x 63 x 203 mm), 1 lbs (0.5 kg)
- **Low Power:** 10W, +6V~+20V DC power, 4-Pin XLR; support for Anton Bauer and IDX batteries
- **Record Start/Stop and Tally Light connector (4-pin Hirose)**
- **Rugged, all solid-state construction, no disk-drive heads to crash or tape mechanisms to jam**
- **Applications:**
  - Upgrade video quality, tapeless work-flow
  - Live-Event recording (churches, concerts, etc), news / courtroom pool feed
  - OB Trucks: ASI to Satellite UpLink; Digital Signage
  - Sports, Nature shoots, Film documentaires, etc.
  - Helicopters, Race-Cars, Airplanes, Helmet cameras
  - Sports, Medical, Corporate, ENG, EFP, Underwater cameras
- **US \$4995, available NAB 2008 timeframe; 32Gbyte CompactFlash cards cost ≈ US \$400**
- **Optional ASI I/O with programmable PIDs etc (US \$995)**
- **Optional 8/10bit 4:2:2 uncompressed option, Fall 2008, pricing TBD.**



Canon XL-H1 with Flash XDR

Local Convergent Design Dealer Info

[www.convergent-design.com](http://www.convergent-design.com)

[sales@convergent-design.com](mailto:sales@convergent-design.com)

Note: specifications are preliminary and subject to change without notice.

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