## Convergent Design Presents Flash XDR™

The First CompactFlash® Based HD **X**stream **D**ata **R**ecorder

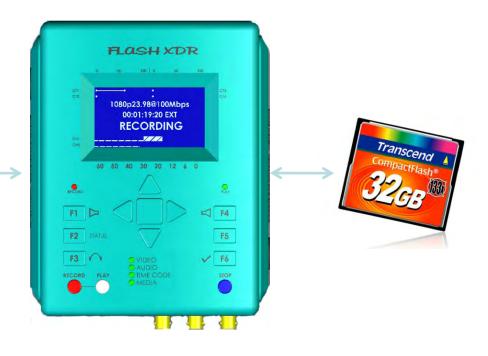
**HD-SDI Source** 













- HD-SDI ↔ MPEG2 ↔ CompactFlash Card
- MPEG2 4:2:2 @ 50, 100 and 160 Mbps
- Also supports HDV over 1394
- Embedded or External Audio, TC Input
- Microphone or Line Level Audio Input
- Four CompactFlash Card Slots
- 284 Min Record Capacity @ 50 Mbps
- Rugged, solid-state; silent operation
- Compact, 127x44x178 mm, 0.5Kg, 8 Watts
- US \$4995 (Base Unit)
- Optional ASI I/O Add-On (US \$995)



Flash XDR Mounted to Back of Camcorder





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



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



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



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



**End View** 

Power In (XLR), RS-422, Time-Code I/O, On/Off GPIO, 1394, HD-SDI Out, HD-SDI In, ASI In (Option)

## Flash XDR™ ultra-Portable HD Field Recorder

7x5x1.7" (127x44x178mm) 1 lb (0.5 Kg) 8 Watts



# Flash XDR Excellent A/V Quality / Compact, Rugged Design



High-Performance Solid-State Media

#### 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 to NLE via USB or Firewire-800 reader

#### 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



FireWire-800 Reader 340 Mbps I/O

### **Unique Recording Capabilities**

- Time-Lapse Recording (I-Frame Only)
- Pre-Record Buffer
- Pulldown Removal (1080i60 → 1080p24) and Image Flip
- Audio / Video Sync Adjustment
- RAID 1 (Redundant) Recording Capability
- Programmable triggers: GPIO, Incrementing Time-Code, etc

## **MPEG2 HD422**

#### **Excellent 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

## Approx. Record Capacity (in Minutes)

## **CompactFlash®**

Video Format / Bit-Rate	1080i @ 50Mbps	1080i @ 100 Mbps
Record Capacity - 128GB (4-32GB Cards)	284	142

## Flash XDR<sup>TM</sup>

## 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)
  - o 1080i60/59.94/50, 1080p30/29.97/25/24/23.98, 720p60/59.94/50
- MPEG2 Profiles Supported
  - o 422P@HL: 100, 160 Mbps VBR (1920x1080i/p, 1280x720p, 4:2:2, I-Frame Only)
  - o 422P@HL: 50, 100 Mbps VBR (1920x1080i/p, 1280x720p, 4:2:2, Long-GOP)
  - o MP@HL: 18, 35 Mbps VBR (1440x1080i/p, 4:2:0, Long-GOP) (XDCAM HD)
  - o MP@H-14: 25 Mbps CBR (1440x1080i, 4:2:0, Long-GOP) (HDV-2)
  - o MP@HL: 19.7 Mbps CBR (1280x720p, 4:2:0, Long-GOP) (HDV-1)
- Inputs: HD-SDI, 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), Balanced Stereo Analog Audio (XLRs)
- Audio Input Source: 2-channel analog balanced or 4-channel HD-SDI embedded
- Audio Formats:
  - o MPEG1 Layer 2 (384 Kbps: 2-Channel, 192 Kbps: 4-Channel)
  - o Uncompressed PCM Audio (4 Channel, 48-KHz, 16/24-Bit)
- Compact: 5.0"(W) x 1.7" (H) x 7.0"(D), (127 x 44 x 178 mm), 1 lbs (0.5 kg)
- Low Power: 8W, +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:
  - o Upgrade video quality, improve workflow of tape-based HD Camcorders with HD-SDI output
  - o Live-Event recording (churches, concerts, etc), news / courtroom pool feed
  - o Mobile Trucks, Local TV Station Broadcast, Post Production, Pole Cams
  - o Sports, Nature shoots, Film documentaires, etc.
  - o Helicopters, Race-Cars, Horse-Races, Airplanes, Helmet cameras
  - o Sports, Medical, Corporate, ENG, EFP, Underwater cameras
- US \$4995, available NAB 2008 timeframe; 16Gbyte CompactFlash cards cost ≈ US \$200
- Optional ASI I/O with programmable PIDs etc (US \$995)

Local Convergent Design Dealer Info

www.convergent-design.com

sales@convergent-design.com

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

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