

G e m i n i 4:4:4™



- Monitor
- Twin Record
- Playback
- 3X Transfer

## (R)evolutionary Uncompressed HD Video Recorder!

HD/2K, 4:2:2/4:4:4, 10bit, S-Log, Dual-Link, 3G, 16-Chan

Perfect for AF100, F3, F35, Alexa, All Filmmakers

Flexible post workflows: Full uncompressed,  
or encode to your favorite codec

Gemini 4:4:4™ recorder with high brite LCD and  
transfer station for \$5,995 (retail)

**The ultimate in HD image quality  
is now affordable!**

Shown Actual Size  
(8-15 watts, 1 lb)

See the Gemini 4:4:4™ Video Recorder at NAB 2011, Convergent Design Booth C1126

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

++720-221-3861 ++803-278-0941

# Gemini 4:4:4™ Technical Specifications

| Feature                          | Specification  |
|----------------------------------|--|
| <b>Video Standards</b>           | HD-SDI, SMPTE 292M; HD-SDI 3G, SMPTE 424M; HD-SDI Dual-Link, SMPTE 372M  |
| <b>Video Formats</b>             | 1080p23.98/24/25/29.97/50/59.94; 1080i50/59.94; 720p23.98/25/29.97/50/59.94/60; 2048x1080p23.98/24   |
| <b>Video I/O</b>                 | Four BNCs, (2 Input, 2 output, with individual power-down options), One HDMI (Type C) Output   |
| <b>Record Features</b>           | Full Uncompressed 10-Bit 4:2:2 / 4:4:4 Recording into Quicktime file (.mov) with audio and timecode<br>User programmable over/under crank, time-lapse, 3:2 and 2:2 pulldown removal, on-screen tally<br>Record video simultaneously to both SSD drives (backup) or span drives (for longer record times)<br>Video can be recorded with or without burned-in LUTs, on individual drive basis                                      |
| <b>Playback Control</b>          | Play, Rewind, Fast-Forward, Pause, and Step Control<br>Reference image overlay (aka onion skinning) planned in future firmware release   |
| <b>S-Log, Log-C Support</b>      | Support for S-Log, Log-C with user programmable 1D LUTs, LUTs can be applied to either SDI output  |
| <b>Media</b>                     | Two Slots for 1.8" Solid State Drives (SSD), Hot-Swappable, 256GB / 512GB sizes<br>SSD Performance: 260 MBytes/Sec Write, 415 MBytes/Sec Read, 6Gbps SATA Interface  |
| <b>Transfer Station</b>          | 1.8" SSD to 6Gbps eSATA transfer station (included)  |
| <b>Built-In LCD Monitor</b>      | 5" high brightness LCD, sunlight viewable, 800 cd/m <sup>2</sup> , 800 x (RGB) x 480 Pixels, 24-Bit, 900:1 True Contrast, Wide 85° Viewing Angle (IPS Technology), Color Calibrated at Factory<br>1:1 Pixel Option, with user positioning of desired window via touch control  |
| <b>Menu System</b>               | Touch Sensitive menu system with user-defined presets and customizable level of on-screen data   |
| <b>Timecode</b>                  | HD-SDI Embedded (SMPTE RP-188) or LTC via the remote control option  |
| <b>Digital Audio I/O</b>         | HD-SDI Embedded 4-Channels, uncompressed, 24-Bit, 48K; 16-Channel in future firmware   |
| <b>Analog Audio Output</b>       | 3.5 mm output jack, headphone or consumer line level, support to monitor any channel pair  |
| <b>3D - Dual Stream (Option)</b> | Extra cost option for Full Stereo (dual stream) record and playback in a single Gemini unit<br>Left and Right Video Streams recorded as individual files, in full uncompressed<br>Vertical Flip, Horizontal Flop, for either/both streams<br>Individual output of each stream or Combine: Side by Side, Line by Line, Anaglyph, 50/50 Composite<br>Simultaneous output in multiple formats (ie Side by Side and 50/50 Composite) |
| <b>Remote Control (Option)</b>   | Wired Remote Control with Tally Light and LTC I/O  |
| <b>NLE Compatibility</b>         | NLE Support planned for Avid, Final Cut Pro, Premiere, Vegas and Edius   |
| <b>Power Requirements</b>        | 6 to 19 Volts DC, 8 to 15 watts (active) / under 1 watt (power-save mode)  |
| <b>Size, Weight</b>              | 138 x 114 x 27 mm (5.4 x 4.5 x 1.1"); 450 grams (1 lb); Milled Aluminum Case   |
| <b>Environmental</b>             | +50 to -20 °C Operating / +75 to -40 °C Storage  |
| <b>Gemini Kit Components</b>     | Gemini 4:4:4 Recorder, eSATA Transfer Station, Custom Fitted Hard Plastic Case, HD-SDI cables, HDMI cable, Hotshoe with 1/4"x20 Ball Mount, Universal AC Power Supply, 4-Pin XLR Power Cable   |
| <b>Optional Accessories</b>      | 256GB / 512GB SSD Media, DC to DC Converter (Input: 20 to 32V, Output: 12V @ 4A), 56 Wh Battery and Charger, Sun Shade, Remote Control, D-Tap Power Cable  |
| <b>Notes</b>                     | 1080p50/60 data striped across both drives; 4:4:4 only supported in 1080p23.98/24/25/29.97 and 2048x1080p23.98/24; DPX file format support planned in future firmware<br>Specifications subject to change without notice.  |

## Gemini 4:4:4 Record Time (Minutes)

| Media          | 1080p24<br>4:2:2 | 1080p24<br>4:4:4 | 1080p25<br>4:2:2 | 1080p30<br>4:2:2 | 1080p50<br>4:2:2 | 1080p60<br>4:2:2 | 1080i50<br>4:2:2 | 1080i60<br>4:2:2 | 720p50<br>4:2:2 | 720p60<br>4:2:2 |
|----------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|-----------------|
| 256GB SSD (x1) | 33               | 22               | 32               | 27               | na               | na               | 32               | 27               | 36              | 30              |
| 256GB SSD (x2) | 66               | 44               | 64               | 54               | 32               | 26               | 64               | 54               | 72              | 60              |
| 512GB SSD (x2) | 132              | 88               | 128              | 108              | 64               | 52               | 128              | 108              | 144             | 120             |