

G e m i n i 4:4:4™



## Award Winning Uncompressed Recorder!

- 4:4:4 RGB S-Log 10-bit
- Low Power, Weight, Size, Cost
- Includes transfer-station, hard case



TVBEUROPE ☆ Editors' Awards  
Best of IBC 2011



3D (Option) and/or ARRIRAW (Planned) Support via paid upgrades

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

[www.gemini444.com](http://www.gemini444.com)

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# Gemini 4:4:4™ Technical Specifications

Feature	Specification
<b>Video Standards</b>	HD-SDI, SMPTE 292M; HD-SDI Dual-Link, SMPTE 372M; (HD-SDI 3G, SMPTE 424M - Planned)
<b>Video Formats</b>	1080p23.98/24/25/29.97/30; 720p50/59.94/60; (1080p50/59.94/60, 2048x1080p23.98/24 - Planned)
<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>	Uncompressed RGB 10-Bit 4:4:4 Recording into DPX file format (audio recorded into WAV file)
	Spans across drives (for longer record times) or (Record simultaneously to both drives – Planned)
	Video can be recorded with or without baked-in LUTs
<b>Playback Control</b>	Play and Pause (Fast-Forward, Rewind and Step – Planned)
<b>S-Log, Log-C Support</b>	Support for S-Log, Log-C (user programmable 1D LUTs - Planned)
<b>Media</b>	Two Slots for 1.8" Solid State Drives (SSD), 256GB / 512GB sizes;
	SSD Performance: 250 MBytes/Sec Write, 415 MBytes/Sec Read, 6 Gbps SATA Interface
	Note: Only SSD Media supplied by Convergent Design can be used in the Gemini
<b>Transfer Station</b>	1.8" SSD to 6 Gbps eSATA transfer station (included)
<b>Built-In LCD Monitor</b>	5" high brightness LCD, 800 cd/m <sup>2</sup> , 800 x (RGB) x 480 Pixels, 24-Bit, 900:1 True Contrast, Wide 170° Viewing Angle, Color Calibrated at Factory
	(1:1 Pixel Mode, with user positioning of desired window via touch-screen control – Planned)
<b>Software Compatibility</b>	Support for Avid, Final Cut Pro, Premiere, Smoke, Flame, DaVinci
<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 optional cable
<b>Digital Audio I/O</b>	HD-SDI Embedded uncompressed, 24-Bit, 48K; 2-channels, stored in WAV format.
<b>Analog Audio I/O</b>	3.5 mm jacks, mic or consumer line level input; headphone or consumer line level output
<b>3D - Dual Stream (Option)</b>	Paid option for Full Stereo (dual stream) record and playback in a single Gemini unit; Cameras must be Gen-locked to operate properly with the Gemini
	Left and Right Video Streams recorded as individual files, in full uncompressed
	Vertical Flip, Horizontal Flop, for either/both streams
	Individual output of each stream or Combine: Side by Side, Line by Line, Anaglyph, 50/50 Composite and Luma Differencing
<b>ARRIRAW (Option)</b>	Planned support for ARRIRAW recording and playback with Confidence Monitoring
<b>Remote Control (Option)</b>	Wired Remote Control with Tally Light and LTC I/O
<b>Power Requirements</b>	5 to 19 Volts DC, 8 to 16 watts (active) / 4.0 watt (power-save mode); 7-second boot-up time
<b>Size, Weight</b>	138 x 120 x 37 mm (5.4 x 4.7 x 1.45"); 680g (1.5 lb); Milled Aluminum Case
<b>Environmental</b>	+40 to -10 °C Ambient Temp (Operating) / +70 to -20 °C (Storage)
<b>Gemini Production Kit</b>	Gemini 4:4:4 Recorder, eSATA Transfer Station, HD-SDI cables, HDMI cable, Hotshoe with 1/4"x20 Ball Mount, Universal AC Power Supply, 4-Pin XLR Power Cable, D-Tap Power Cable, Stylus, Custom Fitted Hard Plastic Case
<b>Optional Accessories</b>	256GB / 512GB SSD Media, DC to DC Converter (Input: 20 to 32V, Output: 12V), Sun Shade, Remote Control, extra Transfer Station(s)
<b>Notes</b>	1080p29.97/30 and 1080p50/59.94/60 data must be striped across both drives, so simultaneous recording / 3D is not supported for these formats. (Data from two SSDs can be readily combined for editing). Also 1080p50/59.94/60 only supported in 4:2:2 sampling.
	Specifications subject to change without notice.

## Record Times (Minutes)

Media	1080p24 4:4:4	1080p25 4:4:4	1080p30 4:4:4
256GB SSD (x1)	21	20	NA
256GB SSD (x2)	42	40	33
512GB SSD (x2)	84	80	66



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