

Convergent Design Odyssey7Q Tech Specs

Display	7.7" OLED, 1280x800, RGB 8-Bit Panel, ~ 16 million colors, wide gamut, 3400:1 Contrast, 176° Viewing, True Blacks
SDI Video I/O	SD/HD/3G Support: Single/Dual Link, 2-Inputs, 2-Outputs, 2 Bi-Directional (Can be inputs or outputs), Full-size BNCs
HDMI Video I/O	HDMI I/O Version 1.4a support, Up to 1080p60 422 8-bit
LUT Support	ARRI, Canon, Sony, or Custom User-Loadable LUTs*
Focus Assist	Video + Edges, Edges Only, Enhanced Edges, user choice of color: Red, Blue, Green + Pulsing
Zebras	Two Levels, one allows for a user specified range, the other is active on a specified IRE level and above
False Color	False color with 4 programmable levels
Waveform Monitor	Luma only, RGB, Red only, Blue only, Green only, and RGB Parade
Histogram	Luma only, RGB, or Red, Blue or Green individually
Vectorscope	Color vectorscope with 2X zoom
1:1 Pixel Mode	Image Zoom, Vertical Flip and Horizontal Flop, Aspect Ratio Guides, Horizon Indicator
Quad Stream Display	Display four independent HD streams simultaneously on OLED and/or external monitor (quad splitter),
Digital Audio I/O	8-Channel Embedded Audio (48KHz, 24-bit) (2 Channel initially, 8-Channel via future firmware update)
Analog Audio I/O	3.5mm stereo unbalanced input up to -10dB, 3.5mm stereo headphone output
Remote and Timecode	RS-232 I/O, programmable GPIO. Timecode: LTC I/O (BNC) or embedded SDI / HDMI
Wireless Control	Bluetooth LE with iPhone/Android App, to be provided after initial release of Odyssey7Q
User Interface	Capacitive Touchscreen, Two user-programmable context-sensitive mechanical function keys
Firmware Update	Via USB Port to host computer, Firmware Updates downloadable from website: www.convergent-design.com
DC Power Input	10 to 34 VDC with built-in reverse polarity protection; locking Neutrik connector, built-in power switch
Power Dissipation	8 Watts (monitor only), 9-15 Watts (simultaneous monitor/record mode)
Weight and Size	540 grams / 1.2 lbs., 7.9" x 6.1" x 1.0" (200 x 155 x 25 mm), -10 to +40°C (Operating), -20 to +70°C (Storage)
Onion Skinning	Overlay pre-recorded still frame on live video with opacity slider (requires CD SSD)*
View Monitor Out, Record Clean Video	Display the monitor-out (viewfinder data) on the OLED while recording a clean video signal. Available when using the Sony F3, Sony FS700, Canon C500 and ARRI Alexa cameras.
Record Triggers	Touchscreen, SDI record trigger (ARRI, Canon, Panasonic, Red, Sony), Optional Remote Control Cable
Recording Media	Convergent Design Enterprise Grade SSD in 240/480/960 GB sizes, 400MB/sec write, 500MB/sec read speed, compatible with USB 3.0 and Thunderbolt adapters. SSDs must be purchased separately.
Compressed Recording (Standard)	Avid DNxHD Compressed (36 to 220 Mbps), 8/10-bit YCC only, up to 720p60, 1080p60/1080i60 (.mov format). Requires at least one Convergent Design SSD (other SSDs/HDDs are not supported). Automatic switch over to second SSD. Note: this recording capability is always available without watermark.
Extra Cost Recording Options, Available for Purchase or Rental	
HD/2K HFR/RGB	HD/2K High Frame Rate, RGB: DNxHD Compressed HD YCC 10-Bit up to 120fps (up to 880 Mbps, .mov); Uncompressed HD/2K RGB 444 10/12-Bit up to 60fps (.dpx format);
QHD/4K	QHD/4K Support: Uncompressed QHD/4K YCC 10-bit up to 30 fps (.dpx format). For Sony F55 and other cameras that can output uncompressed 4K over four HD-SDI Single-Link Outputs.
FS700 Raw	FS700 Support: HD/2K Raw up to 240fps (.dng format), QHD/4K YCC Uncompressed up to 30fps (.dpx format)
HD/2K Raw	HD/2K Raw: up to 120fps (.dng format). Cameras from IO Industries, LMP, Indiecama, Weisscam, P&S Technik X35
C500 Raw	Canon C500: QHD/4K Raw 10-bit up to 60fps, Half QHD/Half 4K Raw 10-bit up to 120fps (.rmf format); Uncompressed HD/2K RGB 444 10/12-bit up to 60fps (.dpx format); DNxHD Compressed HD YCC 10-Bit up to 120fps (880 Mbps, .mov format). Support for all C500 frame rates/modes for in one unit. Some modes require two SSDs. Simultaneous RAW and Proxy (DNxHD-36) up to 60 fps supported (the limit of the camera's monitor output)*
ALEXA ARRIRAW	ALEXA ARRIRAW: (16:9 up to 60 fps, 4:3 up to 48 fps) with VariFrame and de-squeeze support (.ari format)* Simultaneous RAW and Proxy (DNxHD-36) up to 30 fps supported (the limit of the camera's monitor output)*
Quad-Stream HD	Quad Stream HD Recording: Recording up to four separate (non-genlocked) video streams into four separate files using Avid DNxHD, up to 1080p30/1080i60 or 720p60 (up to 220 Mbps/stream, .mov format). The four HD streams may be displayed in separate quadrants on the OLED monitor and/or external monitor*
Notes	
All extra cost recording options can be "tested", but will include a permanent watermark in demo mode. (Video is not watermarked if the extra-cost recording option has been purchased or is actively rented).	
2K = 2048x1080, QHD = Quad-HD (3840x2160), Half QHD = 3840x1080, Half 4K = 4096x1080	
Odyssey7Q package includes universal AC power supply. SSD media, battery adapters, sunscreen sold separately	
All Video recording requires Convergent Design SSDs, sold separately from Odyssey7Q	
* = ARRIRAW, Quad-Stream HD recording, proxy recording, onion skinning, and user programmable LUTs available in Q4 2013 as a downloadable firmware upgrade	
All Features and Specifications subject to change and correction without notice (Revision: 2-May-2013) Certain features will be provided via a firmware update after initial release of the Odyssey7Q	