

RED EPIC-W 8K S35



SENSOR

SENSOR TYPE	HELIUM 35.4 Megapixel CMOS
EFFECTIVE PIXELS	8192 x 4320
SENSOR SIZE	29.90 mm x 15.77 mm (Diagonal: 33.80 mm)
DYNAMIC RANGE	16.5+ stops
SIGNAL-TO-NOISE-RATIO	80 dB

RECORDING

MAX DATA RATES	Up to 275 MB/s using RED MINI-MAG (480GB & 960GB) Up to 225 MB/s using RED MINI-MAG (120GB & 240GB)
REDCODE RAW MAX FRAME RATES	30 fps at 8K Full Format (8192 x 4320), 30 fps at 8K 2.4:1 (8192 x 3456) 30 fps at 7K Full Format (7168 x 3780), 40 fps at 7K 2.4:1 (7168 x 3024) 75 fps at 6K Full Format (6144 x 3240), 100 fps at 6K 2.4:1 (6144 x 2592) 96 fps at 5K Full Format (5120 x 2700), 120 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Format (4096 x 2160), 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Format (3072 x 1620), 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Format (2048 x 1080), 300 fps at 2K 2.4:1 (2048 x 864)
PLAYBACK FRAME RATES (PROJECT TIMEBASE)	23.98, 24, 25, 29.97, 47.95, 48, 50, 59.94, 60 fps, all resolutions
REDCODE SETTINGS RANGE FROM 2:1 UP TO 22:1¹	6:1 REDCODE for 8K Full Format (8192 x 4320) at 24 fps 7:1 REDCODE for 8K Full Format (8192 x 4320) at 30 fps 2:1 REDCODE for 4K Full Format (4096 x 2160) at 24 fps 4:1 REDCODE for 4K Full Format (4096 x 2160) at 60 fps
REDCODE RAW ACQUISITION FORMATS²	8K Full Format (8192 x 4320), 2:1, 2.4:1, 16:9, 14:9, 8:9, 3:2, 6:5, 4:18:1, and Ana 2x, 1.3x, 1.25x 7K Full Format (7168 x 3780), 2:1, 2.4:1, 16:9, 8:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 6K Full Format (6144 x 3240), 2:1, 2.4:1, 16:9, 8:9, 3:2, 4:3, 6:5, 4:18:1, and Ana 2x, 1.3x, 1.25x 5K Full Format (5120 x 2700), 2:1, 2.4:1, 16:9, 8:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Format (4096 x 2160), 2:1, 2.4:1, 16:9, 8:9, 3:2, 4:3, 5:4, 6:5, 4:18:1, 8:1, 1:1, and Ana 2x, 1.3x 3K Full Format (3072 x 1620), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:18:1, and Ana 2x, 1.3x 2K Full Format (2048 x 1080), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:18:1, and Ana 2x, 1.3x
APPLE PRORES	ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 4K (4096x 2160) up to 29.97 fps ProRes 4444 XQ and ProRes 4444 at 2K (2048 x 1080) up to 120 fps ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 2K (2048x 1080) up to 120 fps
AVID CODECS³	DNxHR HQX at 4K (4096x 2160) 12-bit up to 29.97 fps DNxHR HQ, SQ and LB at 4K (4096x 2160) 8-bit up to 29.97 fps DNxHR 444 at 2K (2048 x 1080) 12-bit up to 120 fps DNxHD 444 and HQX (1920x 1080) 10-bit up to 120 fps DNxHD HQ, SQ and LB (1920x 1080) 8-bit up to 120 fps

GENERAL

CONSTRUCTION	Magnesium and Aluminum Alloy
WEIGHT	3.35 lbs (BRAIN with Integrated Media Bay)
OPERATING TEMPERATURE	0°C to 40°C (32°F to 104°F)
STORAGE TEMPERATURE	-20°C to 50°C (-4°F to 122°F)
RELATIVE HUMIDITY	0% to 85% non-condensing

FEATURES

COLOR MANAGEMENT	Supports 33×33×33, 32×32×32, 26×26×26, and 17×17×17 3D LUTs Variable number of 3D LUT outputs with DSMC2 expander module User programmable shaper 1D LUTs Tetrahedral interpolation, 16-bit processing
AUDIO	Integrated dual channel digital stereo microphones, uncompressed, 24-bit 48 kHz Optional 2 additional channels with DSMC2 expander module, uncompressed, 24-bit 48 kHz
REMOTE CONTROL	Integrated R.C.P. WiFi antenna Ethernet, RS232, and GPI Trigger with DSMC2 expander module
MONITOR OUTPUTS	3G-SDI (HD-SDI) and HDMI with DSMC2 expander module 1080p RGB or 4:2:2, 720p RGB or 4:2:2 480p RGB or 4:2:2 (HDMI Only) SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio
MONITOR OPTIONS	DSMC2 RED Touch 4.7" LCD, DSMC2 RED Touch 7.0" LCD and DSMC2 RED EVF (OLED) with cable-free connection. RED Touch 9.0" LCD, RED Touch 7.0" LCD, RED Touch 5.0" LCD, RED PRO 7" LCD, BOMB EVF (OLED) and BOMB EVF (LCOS) compatible with DSMC2 LEMO Adaptor A and LCD/EVF cable.

SOFTWARE

REDCINE-X PRO DELIVERY FORMATS	4K: DPX, TIFF, OpenEXR (.RED via RREncode plugin) 2K: DPX, TIFF, OpenEXR (.RED via RREncode plugin) 1080p RGB 4:2:2, 720p 4:2:2 : QuickTime, JPEG, AVID AAF, MXF 1080p 4:2:0, 720p 4:2:0 : H.264, .MP4
VIDEO EDITING SOFTWARE COMPATIBILITY⁴	Adobe Premiere Pro, Avid Media Composer, DaVinci Resolve, Edius Pro, Final Cut Pro, Vegas Pro

Tech specs reflect both current and projected information. Everything is subject to change.

1. REDCODE values and max frame rates may vary based on selected acquisition format, aspect ratio, project time base, Lookaround setting, and SSD. For more information on available REDCODE compression settings for all formats, see the DSMC Media Operation Guide (<https://www.red.com/downloads/52cddef32f74a96b22002aa4>).
2. For more information on available acquisition formats, see the DSMC Operation Guides (<https://www.red.com/downloads?category=Documents&release=nal>).
3. Avid DNxHD/HR Codecs recording support added to DSMC2 mware v6.3 or later.
4. Third-party non-linear editing (NLE) applications may have limited compatibility with R3D les.