

SENSOR SPECS	
SENSOR	V-RAPTOR™ 8K VV 35.4 Megapixel CMOS
EFFECTIVE PIXELS	8192 (h) x 4320 (v)
SENSOR SIZE	40.96 mm x 21.60 mm (Diagonal: 46.31 mm)
DYNAMIC RANGE	17+ stops
KEY FEATURES	
BUILT-IN ND	Motorized clear filter and precision controlled electronic ND filter Electronic ND minimum density 2 stops, maximum density 7 stops Electronic ND selectable increments of 1/3 stops, 1/4 stops, and 1 stop
MOUNT TYPE	Interchangeable lens mount, included V-RAPTOR XL PL Mount (shimmable) Optional V-RAPTOR XL Locking Canon EF Mount Physically compatible with DSMC Lens Mounts, but does not provide electronic communication or control
BATTERY TYPE	Integrated Dual Voltage 14/26V V-Lock battery interface Integrated Dual Voltage 14/26V Gold Mount battery interface
RECORDING	
MAX DATA RATES	Up to 800 MB/s using RED branded or other qualified CFexpress media cards ¹
REDCODE® RAW MAX FRAME RATES	120 fps at 8K 17:9 (8192 x 4320), 150 fps at 8K 2.4:1 (8192 x 3456) 140 fps at 7K 17:9 (7168 x 3780), 175 fps at 7K 2.4:1 (7168 x 3024) 160 fps at 6K 17:9 (6144 x 3240), 200 fps at 6K 2.4:1 (6144 x 2592) 192 fps at 5K 17:9 (5120 x 2700), 240 fps at 5K 2.4:1 (5120 x 2160) 240 fps at 4K 17:9 (4096 x 2160), 300 fps at 4K 2.4:1 (4096 x 1728) 320 fps at 3K 17:9 (3072 x 1620), 400 fps at 3K 2.4:1 (3072 x 1296) 480 fps at 2K 17:9 (2048 x 1080), 600 fps at 2K 2.4:1 (2048 x 864)
PLAYBACK FRAME RATES (PROJECT TIME BASE)	23.98, 24, 25, 29.97, 30, 50, 59.94, 60 fps, all resolutions
BEST AVAILABLE REDCODE® SETTINGS	REDCODE HQ, MQ and LQ at 8K 17:9 (8192 x 4320) up to 60 fps REDCODE LQ at 8K 17:9 (8192 x 4320) up to 120 fps REDCODE HQ, MQ and LQ at 6K 17:9 (6144 x 3240) up to 96 fps REDCODE MQ and LQ at 6K 17:9 (6144 x 3240) up to 160 fps REDCODE HQ, MQ and LQ at 4K 17:9 (4096 x 2160) up to 240 fps REDCODE HQ, MQ and LQ at 2K 17:9 (2048 x 1080) up to 480 fps
REDCODE® RAW ACQUISITION FORMATS	8K 17:9 (8192 x 4320), 2:1, 2.4:1, 16:9, 1:1 and Anamorphic 2x, 1.8x, 1.6x, 1.5x, 1.3x, 1.25x 7K 17:9 (7168 x 3780), 2:1, 2.4:1, 16:9, 1:1 and Anamorphic 2x, 1.8x, 1.6x 6K 17:9 (6144 x 3240), 2:1, 2.4:1, 16:9, 1:1 and Anamorphic 1.5x, 1.3x, 1.25x 5K 17:9 (5120 x 2700), 2:1, 2.4:1, 16:9, 1:1 4K 17:9 (4096 x 2160), 2:1, 2.4:1, 16:9, 1:1 3K 17:9 (3072 x 1620), 2:1, 2.4:1, 16:9, 1:1 2K 17:9 (2048 x 1080), 2:1, 2.4:1, 16:9, 1:1
Apple ProRes	Dedicated recording in ProRes 4444 XQ, ProRes 4444, ProRes 422 HQ, ProRes 422, and ProRes 422 LT with resolutions up to 4K (4096x2160) Proxy recording available up to ProRes 422 HQ in 2K (2048 x 1080)
GENERAL	
CONSTRUCTION	Aluminum Alloy
WEIGHT	7.99lbs (with PL Mount, V-Lock) 8.08lbs (with PL Mount, Gold Mount)
DC POWER INPUT	19.5-34 V via 4-pin 2B DC-IN
OPERATING TEMPERATURE	0°C to 40°C (32°F to 104°F)
STORAGE TEMPERATURE	-20°C to 50° C (-4°F to 122°F)
STORAGE RELATIVE HUMIDITY	0% to 85% non-condensing
ADDITIONAL FEATURES	
COLOR MANAGEMENT	Image Processing Pipeline (IPP2) Supports 33x33x33 3D LUTs Supports import of CDLs
AUDIO	Integrated dual channel digital mono microphones, uncompressed, 24-bit 48 kHz Integrated dual channel mic/line/+48V input via 5-pin Audio Port, uncompressed, 24-bit 48 kHz
AUTOFOCUS	Contrast and Phase Detect
REMOTE CONTROL	Wi-Fi for camera control via interchangeable dual band (2.4 GHz/5 GHz) antenna mounted to a female RP-SMA connector Genlock, Timecode-in, GPIO and Ctrl (RS-232) via the integrated 9-pin EXT Port Wired control via USB-C or Gigabit Ethernet (compatible USB-C to Ethernet adapter ¹ required) allowing remote camera control, live MJPEG preview video feed and remote media offload
POWER OUTPUTS ²	Regulated 12 V Outputs 2x P-TAP Connectors (3AMP Combined) 1x Rear 2-Pin 0B (3 AMP) 1x Rear 2-Pin 0B (1.5 AMP) 1x Front 2-Pin 0B (1 AMP) Regulated 24 V Connectors 2x Front 3-Pin Fischer (3 AMP Combined)
MONITOR OUTPUTS	Proprietary top accessory port for monitoring and control 3x 12G-SDI with 6G-SDI, 3G-SDI and 1.5G-SDI modes (SDI 1/2/3) 1x 3G-SDI with 3G-SDI and 1.5G-SDI modes (EVF) 12G-SDI: Up to 4096 x 2160 4:2:2 for 60p 6G-SDI: Up to 4096 x 2160 4:2:2 for 30p, 25p, 24p 3G-SDI: Up to 2048 x 1080 4:2:2 for 60p 1.5G-SDI: Up to 2048 x 1080 4:2:2 for 30p, 25p, 24p SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio
MONITOR OPTIONS	DSMC3 RED® Touch 7.0" LCD IP streamed 1080p live preview wirelessly or wired via USB-C or Ethernet Integrated 2.4" LCD for camera control (no preview video)
CAMERA SYNC OPTIONS	Tri-Level Genlock through BNC Linear Timecode (LTC) through 5-Pin 0B PTP through 9-Pin 0B GIG-E Wireless Genlock and Timecode through Integrated Ambient Communication Network (ACN)
SOFTWARE	
RED CONTROL	Access full camera controls and live preview from iOS or Android devices. Available from the Apple App Store and Google Play Store. RED Control works wirelessly or wired via USB-C or Ethernet

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

1. For more information on compatible accessories, go to RED.COM/third-party-accessories 2. High voltage power source required.

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