

RED



THE DSMC3 GENERATION OF CAMERAS OFFER THE MOST POWERFUL AND ADVANCED CINEMA CAMERA PERFORMANCE ON THE MARKET. THE V-RAPTOR AND V-RAPTOR XL SYSTEMS ARE BOTH NOW AVAILABLE WITH EITHER THE 8K VV + 6K S35 MULTI-FORMAT SENSOR OR THE ALL-NEW 8K S35 VERSION.

V-RAPTOR



A COMPACT AND POWERFUL SYSTEM, FULLY FUNCTIONAL IN ITS SMALLEST FORM OR READY TO BE BUILT OUT FOR ANY STYLE OF PRODUCTION. FEATURING INTEGRATED I/O, INTUITIVE CONTROL DISPLAY, AND VERSATILE LOCKING RF MOUNT.

- Available with the multi-format 8K VV + 6K S35 sensor or all-new 8K S35.
- Compact body measuring only 6" x 4.25" x 4.25" and just over 4 lbs
- Rugged dust and water resistant design
- Robust professional I/O array including 2x 12G SDI outputs and dual channel audio input w/phantom power
- Integrated and easy-to-navigate control display
- USB-C interface for remote control, ethernet offload, and more
- Compatibility with RED Control app

V-RAPTOR XL



AN ALL-IN-ONE SYSTEM BUILT TO SUPPORT HIGH-END PRODUCTIONS, FEATURING A ROBUST I/O ARRAY, FLEXIBLE POWER SOURCE COMPATIBILITY AND RED'S FIRST EVER ELECTRONIC ND SYSTEM.

- Available with the multi-format 8K VV + 6K S35 sensor or all-new 8K S35.
- All-in-one body measuring 8.5" x 6.5" x 6" and weighing 8lbs with PL Mount
- Electronic ND system for precise exposure control down to 1/4 stop increments
- Interchangeable lens mount
- Compatibility with either 26V V-Lock or Gold Mount batteries with an array of high-performance 12V and 24V outputs
- Includes a built in Ambient Lockit module capable of wirelessly syncing Timecode and Genlock

V-RAPTOR

V-RAPTOR XL

SENSOR SPECS				
SENSOR	V-RAPTOR™ 8K VV 35.4 Megapixel CMOS	V-RAPTOR™ 8K S35 35.4 Megapixel CMOS	V-RAPTOR™ 8K VV 35.4 Megapixel CMOS	V-RAPTOR™ 8K S35 35.4 Megapixel CMOS
EFFECTIVE PIXELS	8192 (h) x 4320 (v)			
SENSOR SIZE	40.96 mm x 21.60 mm (Diagonal: 46.31 mm)	26.21 mm x 13.82 mm (Diagonal: 29.63 mm)	40.96 mm x 21.60 mm (Diagonal: 46.31 mm)	26.21 mm x 13.82 mm (Diagonal: 29.63 mm)
DYNAMIC RANGE	17+ stops	16.5 + stops	17+ stops	16.5 + stops
KEY FEATURES				
BUILT-IN ND	N/A		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	Integrated Locking RF Mount Supports /i PL Lenses with RED RF to PL Adapters Supports Canon RF lenses or Canon EF lenses via compatible Canon RF to EF mount adapter		Interchangeable Lens Mount Included V-RAPTOR XL PL Mount with /i Support Supports V-RAPTOR XL Locking Canon EF Mount Accepts DSMC Lens Mounts, but does not provide electronic communication or control.	
BATTERY TYPE	Integrated V-Lock battery interface optimized for Micro V-Lock Batteries¹		Integrated Dual Voltage 14/26V V-Lock or Gold Mount Battery Interface	
RECORDING				
MAX DATA RATES	Up to 800 MB/s using RED branded or other qualified CFexpress media cards¹			
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. 4K (4096 x 2160) and 2K (2048 x 1080) up to 120 fps Proxy recording available up to ProRes 422 HQ in 2K (2048 x 1080) 60 fps.			
GENERAL				
CONSTRUCTION	Aluminum Alloy			
WEIGHT	4.03 lbs (without body cap and CFexpress card)		7.99lbs (with PL Mount, V-Lock) 8.08lbs (with PL Mount, Gold Mount)	
DC POWER INPUT	11-17 V via 6-Pin DC-IN		19.5-34 V via 4-Pin 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			
FEATURES				
COLOR MANAGEMENT	Image Processing Pipeline 2 (IPP2) Supports multiple simultaneous 33x33x33 3D LUT viewing Supports multiple simultaneous CDL viewing and adjustment			
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	Phase Detect and Contrast			
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 required) allowing remote camera control, live MJPEG preview video feed and remote media offload Compatible with RED Control and RED Control Pro		Wi-Fi for camera control via interchangeable dual band (2.4 GHz/5 GHz) antenna mounted to a female RP-SMA connector Wired control via USB-C (compatible USB-C to Ethernet adapter¹ required) or Gigabit Ethernet allowing remote camera control, live MJPEG preview video feed and remote media offload 9-Pin 0B GIG-E (1000BASE-T) 4-Pin 00B CTRL (RS-232) Compatible with RED Control and RED Control Pro	
POWER OUTPUTS	Power output options available via compatible accessories¹		Regulated 12 V Outputs² 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 Integrated dual 12G-SDI with 6G-SDI, 3G-SDI and 1.5G-SDI modes 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		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 Wireless 1080p live preview video feed via 2.4Ghz/5Ghz Wi-Fi for framing Integrated 2.4" LCD for camera control (no preview video)		DSMC3 RED® Touch 7.0" LCD IP streamed 1080p live preview wirelessly or wired via USB-C or Ethernet¹ Integrated 2.4" LCD for camera control (no preview video)	
CAMERA SYNC OPTIONS	Tri-Level Genlock through 9-Pin EXT Port Linear Timecode (LTC) through 9-Pin EXT Port		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 AND RED CONTROL PRO	Access full camera controls and live preview from iOS or Android devices. Pro App: Operate one or multiple V-RAPTOR's over an IP connection to synchronize settings, manage media files locally or upload directly to FrameIO, develop custom looks with advanced CDL and LUT controls, and more. Ideal for control of multi-camera arrays, multi-cam shoots, and live events, all from one central location. Standard app available from the Apple App Store and Google Play Store. RED Control Pro available via Apple App store only and requires additional purchase. RED Control works wirelessly or wired via USB-C			

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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