V-RAPTOR [X]

WORLD'S FIRST LARGE FORMAT
GLOBAL SHUTTER

NEW FLAGSHIP DSMC3 SYSTEM WITH RED GLOBAL VISION: A GLOBAL SHUTTER SENSOR AND SUITE OF TOOLS FOR UNPRECEDENTED FLEXIBILITY AND DYNAMIC RANGE

RED

V-RAPTOR [X]   V-RAPTOR XL [X]

SENSOR SPECS

	V-RAPTOR [X]	V-RAPTOR XL [X]
SENSOR	V-RAPTOR™ [X] 8K VV 35.4 MP Global Shutter 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

	V-RAPTOR [X]	V-RAPTOR XL [X]
RED GLOBAL VISION	Extended Highlights capability to capture more detail and color in extreme dynamic range scenarios Phantom Track recording mode to capture multiple LED instances as dedicated clips	
INTEGRATED ND	Optional RED RF TO PL ADAPTER W/ ELECTRONIC ND FILTER PACK	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 Batteries[1]	Integrated Dual Voltage 14/26V V-Lock or Gold Mount Battery Interface

RECORDING

	V-RAPTOR [X]	V-RAPTOR XL [X]
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 852)	
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 LQ and ELQ at 8K 17:9 up to 60 fps REDCODE LQ and ELQ at 8K 17:9 up to 120 fps REDCODE HQ, MQ LQ and ELQ at 6K 17:9 up to 96 fps REDCODE HQ, MQ LQ and ELQ at 6K 17:9 up to 160 fps REDCODE HQ, MQ LQ and ELQ at 4K 17:9 up to 240 fps REDCODE HQ, MQ LQ and ELQ at 2K 17:9 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, 2:1, 2.4:1, 16:9, 1:1 4K 17:9, 2:1, 2.4:1, 16:9, 1:1 3K 17:9, 2:1, 2.4:1, 16:9, 1:1 2K 17:9, 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

	V-RAPTOR [X]	V-RAPTOR XL [X]
CONSTRUCTION	Alluminum 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

	V-RAPTOR [X]	V-RAPTOR XL [X]
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 00B Audio Port, uncompressed, 24-bit 48 kHz 3.5mm stereo headphone port	
AUTOFOCUS	Phase Detect with Face Detection	
IP CONNECTED	Compatible with the RED Connect Module for live 8K R3D video over IP or live 4K over SMPTE ST 2110 Dual band Wi-Fi (2.4 GHz or 5 GHz) for wireless camera control, live preview, and direct Camera to Cloud workflow via FrameIO or Amazon S3 Wired control via USB-C or Ethernet (compatible USB-C to Ethernet adapter[1] required) for remote camera control, live preview, direct Camera to Cloud workflow and high speed remote media offload	
POWER OUTPUTS	Power output options available via compatible accessories[1]	Regulated 12 V Outputs[2] 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[2] 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 RED® Compact EVF with DSMC3 Adapter A IP streamed 1080p live preview wirelessly or wired via USB-C or Ethernet Integrated 2.4" LCD for camera control (no preview video)	
ADDITIONAL I/O	Tri-Level Genlock through 9-Pin EXT Port Linear Timecode (LTC) through 9-Pin EXT Port RS232 CTRL (using RCP2) via 9-Pin EXT	Tri-Level Genlock through BNC Linear Timecode (LTC) through 5-Pin 0B PTP through 9-Pin 0B GIG-E RCP2 Camera Control via 4-Pin 00B CTRL Wireless Genlock and Timecode through Integrated Ambient Communication Network (ACN)

SOFTWARE

	V-RAPTOR [X]	V-RAPTOR XL [X]
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	