KOMODO 6K | KOMODO-X 6K | V-RAPTOR [X] 8K | V-RAPTOR XL [X] 8K

SENSOR SPECS

	KOMODO 6K	KOMODO-X 6K	V-RAPTOR [X] 8K	V-RAPTOR XL [X] 8K
SENSOR READOUT	GLOBAL SHUTTER			
SENSOR TYPE	KOMODO 19.9MP Super 35mm Global Shutter CMOS	KOMODO-X 19.9MP Super 35mm Global Shutter CMOS	V-RAPTOR [X] 8K VV 35.4MP Global Shutter CMOS	
SENSOR SIZE	6144 x 3240 | 27.03 mm x 14.26 mm (Diagonal: 30.56mm)		8192 x 4320 | 40.96 mm x 21.60 mm (Diagonal: 46.31 mm)	
DYNAMIC RANGE	16+ stops	16.5+ stops	17+ stops	

KEY FEATURES

	KOMODO 6K	KOMODO-X 6K	V-RAPTOR [X] 8K	V-RAPTOR XL [X] 8K
RED GLOBAL VISION	Not Available		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.	
RED CONNECT	Not Available	Compatible with RED Connect for live 6K R3D video over IP	Compatible with the RED Connect and Cine-Broadcast Module for live 8K R3D video over IP or live 4K over SMPTE ST 2110	
ND FILTER	RED RF TO PL ADAPTER W/ ELECTRONIC ND FILTER PACK AVAILABLE			Integrated electronic ND system featuring 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 RF mount with electronic communication. Supports /i PL Lenses with RED RF to PL Adapters. Supports Canon EF Adapter with communication and other adapters based on the RF mount	Integrated locking RF mount with electronic communication. Supports /i PL Lenses with RED RF to PL Adapters. Supports Canon EF Adapter with communication and other adapters based on the RF mount		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.

RECORDING

	KOMODO 6K	KOMODO-X 6K	V-RAPTOR [X] 8K	V-RAPTOR XL [X] 8K
MAX DATA RATES	Up to 280 MB/s using RED Pro CFast and qualified CFast 2.0 memory cards[1]	Up to 560 MB/s using RED branded or other qualified CFexpress media cards[1]	Up to 800 MB/s using RED branded or other qualified CFexpress media cards[1]	
REDCODE RAW MAX FRAME RATES	40 fps at 6K 17:9 (6144 x 3240) 48 fps at 5K 17:9 (5120 x 2700) 60 fps at 4K 17:9 (4096 x 2160) 120 fps at 2K 17:9 (2048 x 1080)	80 fps at 6K 17:9 (6144 x 3240) 96 fps at 5K 17:9 (5120 x 2700) 120 fps at 4K 17:9 (4096 x 2160) 240 fps at 2K 17:9 (2048 x 1080)	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, LQ, and ELQ at 6K 17:9 (6144 x 3240) up to 40 fps REDCODE HQ, MQ, LQ, and ELQ at 4K 17:9 (4096 x 2160) up to 60 fps REDCODE HQ, MQ, LQ, and ELQ at 2K 17:9 (2048 x 1080) up to 120 fps	REDCODE HQ, MQ, LQ, and ELQ at 6K 17:9 (6144 x 3240) up to 80 fps REDCODE HQ, MQ, LQ, and ELQ at 4K 17:9 (4096 x 2160) up to 120 fps REDCODE HQ, MQ, LQ, and ELQ at 2K 17:9 (2048 x 1080) up to 240 fps		REDCODE HQ, MQ, LQ, and ELQ at 8K 17:9 (8192 x 4320) up to 60 fps REDCODE LQ and ELQ at 8K 17:9 (8192 x 4320) up to 120 fps REDCODE HQ, MQ, LQ, and ELQ at 6K 17:9 (6144 x 3240) up to 98 fps REDCODE MQ, LQ and ELQ at 6K 17:9 (6144 x 3240) up to 160 fps REDCODE HQ, MQ, LQ, and ELQ at 4K 17:9 (4096 x 2160) up to 240 fps REDCODE HQ, MQ, LQ, and ELQ at 2K 17:9 (2048 x 1080) up to 480 fps
REDCODE RAW ACQUISITION FORMATS	6K 17:9 (6144 x 3240), 2:1, 2.4:1, 16:9 and Anamorphic 2x, 1.8x, 1.6x, 1.5x, 1.3x, 1.25x 5K 17:9 (5120 x 2700) 4K 17:9 (4096 x 2160) and 16:9 2K 17:9 (2048 x 1080)			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 4K (4096 x 2160) ProRes 422 HQ and ProRes 422 up to 60 fps, and 2K (2048 x 1080) at ProRes 422 HQ and ProRes 422 up to 120 fps	Dedicated recording in 4K (4096 x 2160) ProRes 4444 XQ up to 60 fps, ProRes 4444 up to 80 fps, and ProRes 422 HQ, ProRes 422, and ProRes 422 LT up to 120 fps	Dedicated 2K and 4K recording in ProRes 4444 XQ, ProRes 4444, ProRes 422 HQ, ProRes 422, and ProRes 422 LT up to 120 fps in select formats. Simultanious Proxy recording available in ProRes Proxy to ProRes 422 HQ in 2K (2048 x 1080) up to 60 fps.	

GENERAL

	KOMODO 6K	KOMODO-X 6K	V-RAPTOR [X] 8K	V-RAPTOR XL [X] 8K
CONSTRUCTION	Alluminum Alloy			
MAX. DIMENSIONS	103 x 111 x 95 mm / 4 x 4.5 x 3.75 in	129 x 101 x 95 mm / 5 x 4 x 3.75 in	157 x 108 x 100 mm / 6.1 x 4.25 x 3.9 in	191 x 166 x 150 mm / 7.5 x 6.5 x 5.9 in
WEIGHT	2.10 lbs (without body cap and CFast card)	2.62 lbs (without body cap and CFexpress card)	4.03 lbs (without body cap and CFexpress card)	7.99lbs (with PL Mount, V-Lock) 8.08lbs (with PL Mount, Gold Mount)
MEDIA TYPE	CFast 2.0	CFexpress Type B		
BATTERY TYPE	Two slots for REDVOLT BP batteries	Integrated V-Lock battery interface optimized for Micro V-Lock Batteries[1]		Integrated Dual Voltage 14/26V V-Lock or Gold Mount Battery Interface
DC POWER INPUT	7-17 V DC via 2-pin DC-IN port	11-17 V via 6-pin DC-IN		19.5-34 V via 4-Pin DC-IN

FEATURES

	KOMODO 6K	KOMODO-X 6K	V-RAPTOR [X] 8K	V-RAPTOR XL [X] 8K
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 stereo microphones, uncompressed, 24-bit 48 kHz. Additional dual channel via integrated 3.5mm audio jack, uncompressed, 24-bit 48 kHz. 3.5mm stereo headphone port		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	Sensor-based Phase Detect		Sensor-based Phase Detect with Face Detection	
REMOTE CONTROL	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 Ethernet adapter required) allowing remote camera control, live MJPEG preview video feed and remote media offload. Genlock, Timecode-in, GPIO and Ctrl (RS-232) via the integrated 9-pin EXT Port			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 integrated 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)
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	Integrated 12G-SDI with 6G-SDI and 3G-SDI modes. Integrated 2.9" 1440x1440 touchscreen LCD with preview and camera control. SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio	Proprietary Top Accessory Port for LCD and EVF with Control. Integrated 2.9" 1440x1440 touchscreen LCD with preview and camera control. Integrated 12G-SDI with 6G-SDI, 3G-SDI and 1.5G-SDI modes. SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio	Proprietary Top Accessory Port for LCD or EVF with Control. Integrated dual 12G-SDI with 6G-SDI, 3G-SDI and 1.5G-SDI modes. SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio	Proprietary Top Accessory Port for LCD or EVF with 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). SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio
ADDITIONAL I/O	Tri-Level Genlock through 9-Pin EXT Port. Linear Timecode (LTC) through 9-Pin EXT Port. GPIO through 9-Pin EXT Port			Tri-Level Genlock through BNC. Linear Timecode (LTC) through 5-Pin 0B. PTP (2059-2) through 9-Pin 0B GIG-E. Wireless Genlock and Timecode through Integrated Ambient Communication Network (ACN)

SOFTWARE

	KOMODO 6K	KOMODO-X 6K	V-RAPTOR [X] 8K	V-RAPTOR XL [X] 8K
RED CONTROL	RED Control: Access full camera controls and live preview from iOS or Android devices. RED Control Pro: Operate one or multiple Cameras 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. RED Control Pro available via Apple App store only and requires additional purchase.			