

TECHNICAL SPECIFICATIONS



V-RAPTOR

SENSOR TYPE	V-RAPTOR™ 8K VV 35.4 Megapixel CMOS
EFFECTIVE PIXELS	8192 x 4320
SENSOR SIZE	40.96 mm x 21.60 mm (Diagonal: 46.31 mm)
DYNAMIC RANGE	17+ stops
MOUNT TYPE	Integrated RF mount with RF lens support Supports Canon EF lenses via compatible Canon RF to EF mount adapters Accepts other Canon RF mount-based lens adaptors for diverse lens choices
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)
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
CONSTRUCTION	Aluminum Alloy
WEIGHT	4.03 lbs (without body cap and CFexpress card)
BATTERY TYPE	Integrated V-Lock battery interface optimized for Micro V-Lock Batteries[1]
DC POWER INPUT	11-17V via 6-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
COLOR MANAGEMENT	Image Processing Pipeline 2 (IPP2) Supports 33×33×33 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
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
MONITOR OUTPUTS	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
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)
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

1. For more information on compatible accessories, go to red.com/third-party-accessories (/third-party-accessories)

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