



SENSOR TYPE	V-RAPTOR™ 8K VV 35.4 Megapixel CMOS
EFFECTIVE PIXELS	8192 × 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)

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)
CONSTRUCTION	Aluminum Alloy
WEIGHT	4.03 lbs (without body cap and CFexpress card)
DIMENSIONS	6" x 4.25" x 4.25" (L x W x H)
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)
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
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 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

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