

RED RAVEN 4.5K

SCARLET-W 5K

RED EPIC-W 8K S35

WEAPON 6K

WEAPON 8K S35

WEAPON 8K VV*

SENSOR						
SENSOR TYPE	RED DRAGON 9.9 Megapixel CMOS	RED DRAGON 13.8 MP Super 35 mm CMOS	HELIUM 35.4 Megapixel CMOS	RED DRAGON 19.4 Megapixel CMOS	HELIUM 35.4 Megapixel CMOS	RED DRAGON 35.4 Megapixel CMOS
EFFECTIVE PIXELS	4608 x 2160	5120 x 2700	8192 x 4320	6144 x 3160	8192 x 4320	8192 x 4320
SENSOR SIZE	23.0 mm x 10.8 mm (Diagonal: 25.5 mm)	25.6 mm x 13.5 mm (Diagonal: 28.9 mm)	29.90 mm x 15.77 mm (Diagonal: 33.80 mm)	30.7 mm x 15.8 mm (Diagonal: 34.5 mm)	29.90 mm x 15.77 mm (Diagonal: 33.80 mm)	40.96 mm x 21.60 mm (Diagonal: 46.31 mm)
DYNAMIC RANGE	16.5+ stops (80 dB)	16.5+ stops (80 dB)	16.5+ stops (80 dB)	16.5+ stops (80 dB)	16.5+ stops (80 dB)	16.5+ stops (80 dB)
RECORDING						
MAX DATA RATES	Up to 140 MB/s using RED MINI-MAG	Up to 140 MB/s using RED MINI-MAG	Up to 275 MB/s using RED MINI-MAG (512GB & 1TB) Up to 225 MB/s using RED MINI-MAG (120GB & 240GB)	Up to 300 MB/s using RED MINI-MAG (512GB & 1TB) Up to 225 MB/s using RED MINI-MAG (120GB & 240GB)	Up to 300 MB/s using RED MINI-MAG (512GB & 1TB) Up to 225 MB/s using RED MINI-MAG (120GB & 240GB)	Up to 300 MB/s using RED MINI-MAG (512GB & 1TB) Up to 225 MB/s using RED MINI-MAG (120GB & 240GB)
MAX FRAME RATES¹	120 fps at 4.5K Full Frame (4608 x 2160) 120 fps at 4.5K 2.4:1 (4608 x 1944) 120 fps at 4K Full Frame (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Frame (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Frame (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)	50 fps at 5K Full Frame (5120 x 2700) 60 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Frame (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Frame (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Frame (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)	30 fps at 8K Full Frame (8192 x 4320) 30 fps at 8K 2.4:1 (8192 x 3456) 30 fps at 7K Full Frame (7168 x 3780) 40 fps at 7K 2.4:1 (7168 x 3024) 75 fps at 6K Full Frame (6144 x 3240) 100 fps at 6K 2.4:1 (6144 x 2592) 96 fps at 5K Full Frame (5120 x 2700) 120 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Frame (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Frame (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Frame (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)	75 fps at 6K Full Frame (6144 x 3160) 100 fps at 6K 2.4:1 (6144 x 2592) 96 fps at 5K Full Frame (5120 x 2700) 120 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Frame (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Frame (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Frame (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)	60 fps at 8K Full Frame (8192 x 4320) 75 fps at 8K 2.4:1 (8192 x 3456) 60 fps at 7K Full Frame (7168 x 3780) 75 fps at 7K 2.4:1 (7168 x 3024) 75 fps at 6K Full Frame (6144 x 3240) 100 fps at 6K 2.4:1 (6144 x 2592) 96 fps at 5K Full Frame (5120 x 2700) 120 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Frame (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Frame (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Frame (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)	60 fps at 8K Full Frame (8192 x 4320) 75 fps at 8K 2.4:1 (8192 x 3456) 60 fps at 7K Full Frame (7168 x 3780) 75 fps at 7K 2.4:1 (7168 x 3024) 75 fps at 6K Full Frame (6144 x 3240) 100 fps at 6K 2.4:1 (6144 x 2592) 96 fps at 5K Full Frame (5120 x 2700) 120 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Frame (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Frame (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Frame (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)
REDCODE SETTINGS¹	3:1 at 4.5K Full Frame (4608 x 2160) and 24 fps 8:1 at 4.5K Full Frame (4608 x 2160) and 60 fps 3:1 at 4K Full Frame (4096 x 2160) and 24 fps 7:1 at 4K Full Frame (4096 x 2160) and 60 fps	5:1 at 5K Full Frame (5120 x 2700) and 24 fps 9:1 at 5K Full Frame (5120 x 2700) and 50 fps 3:1 at 4K Full Frame (4096 x 2160) and 24 fps 7:1 at 4K Full Frame (4096 x 2160) and 60 fps	6:1 REDCODE for 8K Full Frame (8192 x 4320) at 24 fps 7:1 REDCODE for 8K Full Frame (8192 x 4320) at 30 fps 2:1 REDCODE for 4K Full Frame (4096 x 2160) at 24 fps 4:1 REDCODE for 4K Full Frame (4096 x 2160) at 60 fps	3:1 REDCODE for 6K Full Frame (6144 x 3160) at 24 fps 7:1 REDCODE for 6K Full Frame (6144 x 3160) at 60 fps 2:1 REDCODE for 4K Full Frame (4096 x 2160) at 24 fps 3:1 REDCODE for 4K Full Frame (4096 x 2160) at 60 fps	5:1 REDCODE for 8K Full Frame (8192 x 4320) at 24 fps 12:1 REDCODE for 8K Full Frame (8192 x 4320) at 60 fps 2:1 REDCODE for 4K Full Frame (4096 x 2160) at 24 fps 3:1 REDCODE for 4K Full Frame (4096 x 2160) at 60 fps	5:1 REDCODE for 8K Full Frame (8192 x 4320) at 24 fps 12:1 REDCODE for 8K Full Frame (8192 x 4320) at 60 fps 2:1 REDCODE for 4K Full Frame (4096 x 2160) at 24 fps 3:1 REDCODE for 4K Full Frame (4096 x 2160) at 60 fps
ACQUISITION FORMATS²	4.5K Full Frame (4608 x 2160), 2.4:1 (4608 x 1944) 4K Full Frame (4096 x 2160), 2:1 (4096 x 2048), 2.4:1 (4096 x 1728), UHD 16:9 (3840 x 2160) 3K Full Frame (3072 x 1620), 2:1 (3072 x 1536), 2.4:1 (3072 x 1296), 16:9 (2880 x 1620), 3:2 (2880 x 1920) 2K Full Frame (2048 x 1080), 2:1 (2048 x 1024), 2.4:1 (2048 x 864), 16:9 (1920 x 1080), 3:2 (1920 x 1280)	5K Full Frame (5120 x 2700), 2:1, 2.4:1, 16:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Frame (4096 x 2160), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 3K Full Frame (3072 x 1620), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 2K Full Frame (2048 x 1080), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x	8K Full Frame (8192 x 4320), 2:1, 2.4:1, 16:9, 14:9, 3:2, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 7K Full Frame (7168 x 3780), 2:1, 2.4:1, 16:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 6K Full Frame (6144 x 3240), 2:1, 2.4:1, 16:9, 3:2, 4:3, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 5K Full Frame (5120 x 2700), 2:1, 2.4:1, 16:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Frame (4096 x 2160), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 3K Full Frame (3072 x 1620), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 2K Full Frame (2048 x 1080), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x	6K Full Frame (6144 x 3160), 2:1, 2.4:1, 16:9, 3:2, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 5K Full Frame (5120 x 2700), 2:1, 2.4:1, 16:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Frame (4096 x 2160), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 3K Full Frame (3072 x 1620), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 2K Full Frame (2048 x 1080), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x	8K Full Frame (8192 x 4320), 2:1, 2.4:1, 16:9, 14:9, 3:2, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 7K Full Frame (7168 x 3780), 2:1, 2.4:1, 16:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 6K Full Frame (6144 x 3240), 2:1, 2.4:1, 16:9, 3:2, 4:3, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 5K Full Frame (5120 x 2700), 2:1, 2.4:1, 16:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Frame (4096 x 2160), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 3K Full Frame (3072 x 1620), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 2K Full Frame (2048 x 1080), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x	8K Full Frame (8192 x 4320), 2:1, 2.4:1, 16:9, 14:9, 3:2, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 7K Full Frame (7168 x 3780), 2:1, 2.4:1, 16:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 6K Full Frame (6144 x 3240), 2:1, 2.4:1, 16:9, 3:2, 4:3, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 5K Full Frame (5120 x 2700), 2:1, 2.4:1, 16:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Frame (4096 x 2160), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 3K Full Frame (3072 x 1620), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 2K Full Frame (2048 x 1080), 2:1, 2.4:1, 16:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, and Ana 2x, 1.3x
APPLE PRORES	422 HQ, 422 and 422 LT at 2K (2048 x 1080) up to 60 fps	422 HQ, 422 and 422 LT at 2K (2048 x 1080) up to 60 fps	422 HQ, 422 and 422 LT at 4K (4096 x 2160) up to 29.97 fps 4444 XQ and 4444 at 2K (2048 x 1080) up to 120 fps 422 HQ, 422 and 422 LT at 2K (2048 x 1080) up to 120 fp	422 HQ, 422 and 422 LT at 4K (4096 x 2160) up to 29.97 fps 4444 XQ and 4444 at 2K (2048 x 1080) up to 120 fps 422 HQ, 422 and 422 LT at 2K (2048 x 1080) up to 120 fps	422 HQ, 422 and 422 LT at 4K (4096 x 2160) up to 29.97 fps 4444 XQ and 4444 at 2K (2048 x 1080) up to 120 fps 422 HQ, 422 and 422 LT at 2K (2048 x 1080) up to 120 fps	422 HQ, 422 and 422 LT at 4K (4096 x 2160) up to 29.97 fps 4444 XQ and 4444 at 2K (2048 x 1080) up to 120 fps 422 HQ, 422 and 422 LT at 2K (2048 x 1080) up to 120 fps
AVID	DNxHD LB (1920 x 1080) 8-bit up to 60 fps	DNxHD HQ, SQ and LB (1920 x 1080) 8-bit up to 60 fps	DNxHR HQX at 4K (4096 x 2160) 12-bit up to 29.97 fps DNxHR HQ, SQ and LB at 4K (4096 x 2160) 8-bit up to 29.97 fps DNxHR 444 at 2K (2048 x 1080) 12-bit up to 120 fps DNxHD 444 and HQX (1920 x 1080) 10-bit up to 120 fps DNxHD HQ, SQ and LB (1920 x 1080) 8-bit up to 120 fps	DNxHR HQX at 4K (4096 x 2160) 12-bit up to 29.97 fps DNxHR HQ, SQ and LB at 4K (4096 x 2160) 8-bit up to 29.97 fps DNxHR 444 at 2K (2048 x 1080) 12-bit up to 120 fps DNxHD 444 and HQX (1920 x 1080) 10-bit up to 120 fps DNxHD HQ, SQ and LB (1920 x 1080) 8-bit up to 120 fps	DNxHR HQX at 4K (4096 x 2160) 12-bit up to 29.97 fps DNxHR HQ, SQ and LB at 4K (4096 x 2160) 8-bit up to 29.97 fps DNxHR 444 at 2K (2048 x 1080) 12-bit up to 120 fps DNxHD 444 and HQX (1920 x 1080) 10-bit up to 120 fps DNxHD HQ, SQ and LB (1920 x 1080) 8-bit up to 120 fps	DNxHR HQX at 4K (4096 x 2160) 12-bit up to 29.97 fps DNxHR HQ, SQ and LB at 4K (4096 x 2160) 8-bit up to 29.97 fps DNxHR 444 at 2K (2048 x 1080) 12-bit up to 120 fps DNxHD 444 and HQX (1920 x 1080) 10-bit up to 120 fps DNxHD HQ, SQ and LB (1920 x 1080) 8-bit up to 120 fps

*WEAPON 8K VV also available as WEAPON 8K VV ANAMORPHIC with RED DRAGON 29.0 Megapixel CMOS sensor. Effective Pixels: 6720 x 4320 (Spherical). Sensor Size: 33.60 mm x 21.60 mm (Diagonal: 39.94 mm).

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

1. REDCODE values and max frame rates may vary based on selected acquisition format, aspect ratio, project time base, Lookaround setting, and SSD.

For more information on available REDCODE compression settings for all formats, see the DSMC Media Operation Guide.

2. For more information on available acquisition formats, see the DSMC Operation Guides via "Support Page" on RED.com.