

## RED RAVEN 4.5K

## SCARLET-W 5K

## RED EPIC-W 8K S35

## WEAPON 6K

## WEAPON 8K S35

## WEAPON 8K VV

SENSOR						
<b>SENSOR TYPE</b>	RED DRAGON 9.9 Megapixel CMOS	RED DRAGON 13.8 Megapixel CMOS	HELIUM 35.4 Megapixel CMOS	RED DRAGON 19.4 Megapixel CMOS	HELIUM 35.4 Megapixel CMOS	MONSTRO 35.4 Megapixel CMOS
<b>EFFECTIVE PIXELS</b>	4608 x 2160	5120 x 2700	8192 x 4320	6144 x 3160	8192 x 4320	8192 x 4320
<b>SENSOR SIZE</b>	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)
<b>DYNAMIC RANGE</b>	16.5+ stops	16.5+ stops	16.5+ stops	16.5+ stops	16.5+ stops	17+ stops

## RECORDING

<b>MAX DATA RATES</b>	Up to 140 MB/s using RED MINI-MAG	Up to 170 MB/s using RED MINI-MAG	Up to 275 MB/s using RED MINI-MAG (≥ 480GB) Up to 225 MB/s using RED MINI-MAG (≤ 240GB)	Up to 300 MB/s using RED MINI-MAG (≥ 480GB) Up to 225 MB/s using RED MINI-MAG (≤ 240GB)	Up to 300 MB/s using RED MINI-MAG (≥ 480GB) Up to 225 MB/s using RED MINI-MAG (≤ 240GB)	Up to 300 MB/s using RED MINI-MAG (≥ 480GB) Up to 225 MB/s using RED MINI-MAG (≤ 240GB)
<b>MAX FRAME RATES<sup>1</sup></b>	120 fps at 4.5K Full Format (4608 x 2160) 120 fps at 4.5K 2.4:1 (4608 x 1944) 120 fps at 4K Full Format (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Format (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Format (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)	50 fps at 5K Full Format (5120 x 2700) 60 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Format (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Format (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Format (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)	30 fps at 8K Full Format (8192 x 4320) 30 fps at 8K 2.4:1 (8192 x 3456) 30 fps at 7K Full Format (7168 x 3780) 40 fps at 7K 2.4:1 (7168 x 3024) 75 fps at 6K Full Format (6144 x 3240) 100 fps at 6K 2.4:1 (6144 x 2592) 96 fps at 5K Full Format (5120 x 2700) 120 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Format (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Format (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Format (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)	75 fps at 6K Full Format (6144 x 3160) 100 fps at 6K 2.4:1 (6144 x 2592) 96 fps at 5K Full Format (5120 x 2700) 120 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Format (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Format (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Format (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)	60 fps at 8K Full Format (8192 x 4320) 75 fps at 8K 2.4:1 (8192 x 3456) 60 fps at 7K Full Format (7168 x 3780) 75 fps at 7K 2.4:1 (7168 x 3024) 75 fps at 6K Full Format (6144 x 3240) 100 fps at 6K 2.4:1 (6144 x 2592) 96 fps at 5K Full Format (5120 x 2700) 120 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Format (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Format (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Format (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)	60 fps at 8K Full Format (8192 x 4320) 75 fps at 8K 2.4:1 (8192 x 3456) 60 fps at 7K Full Format (7168 x 3780) 75 fps at 7K 2.4:1 (7168 x 3024) 75 fps at 6K Full Format (6144 x 3240) 100 fps at 6K 2.4:1 (6144 x 2592) 96 fps at 5K Full Format (5120 x 2700) 120 fps at 5K 2.4:1 (5120 x 2160) 120 fps at 4K Full Format (4096 x 2160) 150 fps at 4K 2.4:1 (4096 x 1728) 150 fps at 3K Full Format (3072 x 1620) 200 fps at 3K 2.4:1 (3072 x 1296) 240 fps at 2K Full Format (2048 x 1080) 300 fps at 2K 2.4:1 (2048 x 864)
<b>REDCODE SETTINGS<sup>1</sup></b>	3:1 REDCODE for 4.5K Full Format (4608 x 2160) at 24 fps 8:1 REDCODE for 4.5K Full Format (4608 x 2160) at 60 fps 3:1 REDCODE for 4K Full Format (4096 x 2160) at 24 fps 7:1 REDCODE for 4K Full Format (4096 x 2160) at 60 fps	4:1 REDCODE for 5K Full Format (5120 x 2700) at 24 fps 7:1 REDCODE for 5K Full Format (5120 x 2700) at 50 fps 3:1 REDCODE for 4K Full Format (4096 x 2160) at 24 fps 6:1 REDCODE for 4K Full Format (4096 x 2160) at 60 fps	6:1 REDCODE for 8K Full Format (8192 x 4320) at 24 fps 7:1 REDCODE for 8K Full Format (8192 x 4320) at 30 fps 2:1 REDCODE for 4K Full Format (4096 x 2160) at 24 fps 4:1 REDCODE for 4K Full Format (4096 x 2160) at 60 fps	3:1 REDCODE for 6K Full Format (6144 x 3160) at 24 fps 7:1 REDCODE for 6K Full Format (6144 x 3160) at 60 fps 2:1 REDCODE for 4K Full Format (4096 x 2160) at 24 fps 3:1 REDCODE for 4K Full Format (4096 x 2160) at 60 fps	5:1 REDCODE for 8K Full Format (8192 x 4320) at 24 fps 12:1 REDCODE for 8K Full Format (8192 x 4320) at 60 fps 2:1 REDCODE for 4K Full Format (4096 x 2160) at 24 fps 3:1 REDCODE for 4K Full Format (4096 x 2160) at 60 fps	5:1 REDCODE for 8K Full Format (8192 x 4320) at 24 fps 12:1 REDCODE for 8K Full Format (8192 x 4320) at 60 fps 2:1 REDCODE for 4K Full Format (4096 x 2160) at 24 fps 3:1 REDCODE for 4K Full Format (4096 x 2160) at 60 fps
<b>ACQUISITION FORMATS<sup>2</sup></b>	4.5K Full Format (4608 x 2160), 2.4:1 (4608 x 1944) 4K Full Format (4096 x 2160), 2:1 (4096 x 2048), 2.4:1 (4096 x 1728), UHD 16:9 (3840 x 2160) 3K Full Format (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 Format (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 Format (5120 x 2700), 2:1, 2.4:1, 16:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Format (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 Format (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 Format (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 Format (8192 x 4320), 2:1, 2.4:1, 16:9, 14:9, 8:9, 3:2, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 7K Full Format (7168 x 3780), 2:1, 2.4:1, 16:9, 8:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 6K Full Format (6144 x 3240), 2:1, 2.4:1, 16:9, 8:9, 3:2, 4:3, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 5K Full Format (5120 x 2700), 2:1, 2.4:1, 16:9, 8:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Format (4096 x 2160), 2:1, 2.4:1, 16:9, 8:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, 1:1, and Ana 2x, 1.3x 3K Full Format (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 Format (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 Format (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 Format (5120 x 2700), 2:1, 2.4:1, 16:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Format (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 Format (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 Format (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 Format (8192 x 4320), 2:1, 2.4:1, 16:9, 14:9, 8:9, 3:2, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 7K Full Format (7168 x 3780), 2:1, 2.4:1, 16:9, 8:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 6K Full Format (6144 x 3240), 2:1, 2.4:1, 16:9, 8:9, 3:2, 4:3, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 5K Full Format (5120 x 2700), 2:1, 2.4:1, 16:9, 8:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Format (4096 x 2160), 2:1, 2.4:1, 16:9, 8:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, 1:1, and Ana 2x, 1.3x 3K Full Format (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 Format (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 Format (8192 x 4320), 2:1, 2.4:1, 16:9, 14:9, 8:9, 3:2, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 7K Full Format (7168 x 3780), 2:1, 2.4:1, 16:9, 8:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 6K Full Format (6144 x 3240), 2:1, 2.4:1, 16:9, 8:9, 3:2, 4:3, 6:5, 4:1, 8:1, and Ana 2x, 1.3x, 1.25x 5K Full Format (5120 x 2700), 2:1, 2.4:1, 16:9, 8:9, 6:5, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Format (4096 x 2160), 2:1, 2.4:1, 16:9, 8:9, 3:2, 4:3, 5:4, 6:5, 4:1, 8:1, 1:1, and Ana 2x, 1.3x 3K Full Format (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 Format (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
<b>APPLE PRORES</b>	ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 2K (2048 x 1080) up to 60 fps	ProRes 422 and ProRes 422 LT at 4K (4096 x 2160) up to 29.97 fps ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 2K (2048 x 1080) up to 60 fps	ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 4K (4096 x 2160) up to 29.97 fps ProRes 4444 XQ and ProRes 4444 at 2K (2048 x 1080) up to 120 fps ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 2K (2048 x 1080) up to 120 fps	ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 4K (4096 x 2160) up to 29.97 fps ProRes 4444 XQ and ProRes 4444 at 2K (2048 x 1080) up to 120 fps ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 2K (2048 x 1080) up to 120 fps	ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 4K (4096 x 2160) up to 29.97 fps ProRes 4444 XQ and ProRes 4444 at 2K (2048 x 1080) up to 120 fps ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 2K (2048 x 1080) up to 120 fps	ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 4K (4096 x 2160) up to 29.97 fps ProRes 4444 XQ and ProRes 4444 at 2K (2048 x 1080) up to 120 fps ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 2K (2048 x 1080) up to 120 fps
<b>AVID</b>	DNxHD LB (1920 x 1080) 8-bit up to 60 fps	DNxHR SQ and LB at 4K (4096 x 2160) 8-bit up to 29.97 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

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.