	DRAGON-X 5K S35	GEMINI 5K S35	HELIUM 8K S35	MONSTRO 8K VV
SENSOR TYPE	DRAGON-X 13.8 Megapixel CMOS	GEMINI 15.4 Megapixel Dual Sensitivity CMOS	HELIUM 35.4 Megapixel CMOS	MONSTRO 35.4 Megapixel CMOS
EFFECTIVE PIXELS	5120 x 2700	5120 x 3000	8192 x 4320	8192 x 4320
SENSOR SIZE	25.6 mm x 13.5 mm (Diagonal: 28.9 mm)	30.72 mm x 18.00 mm (Diagonal: 35.61 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	16.5+ stops	16.5+ stops	17+ stops

	DRAGON-X 5K S35 / GEMINI 5K S35		HELIUM 8K S35 / MONSTRO 8K VV	
MAX FRAME RATES[1]	75 fps at 5K Full Height 1.7:1 (5120 × 3000) (GEMINI Only) 96 fps at 5K Full Format (5120 × 2700), 120 fps at 5K 2.4:1 (5120 × 2160) 120 fps at 4K Full Format (4096 × 2160), 150 fps at 4K 2.4:1 (4096 × 1728) 150 fps at 3K Full Format (3072 × 1620), 200 fps at 3K 2.4:1 (3072 × 1296) 240 fps at 2K Full Format (2048 × 1080), 300 fps at 2K 2.4:1 (2048 × 864)		60 fps at 8K Full Format (8192 × 4320), 75 fps at 8K 2.4:1 (8192 × 3456) 60 fps at 7K Full Format (7168 × 3780), 75 fps at 7K 2.4:1 (7168 × 3024) 75 fps at 6K Full Format (6144 × 3240), 100 fps at 6K 2.4:1 (6144 × 2592) 96 fps at 5K Full Format (5120 × 2700), 120 fps at 5K 2.4:1 (5120 × 2160) 120 fps at 4K Full Format (4096 × 2160), 150 fps at 4K 2.4:1 (4096 × 1728) 150 fps at 3K Full Format (3072 × 1620), 200 fps at 3K 2.4:1 (3072 × 1296) 240 fps at 2K Full Format (2048 × 1080), 300 fps at 2K 2.4:1 (2048 × 864)	
REDCODE SETTINGS[1]	3:1 REDCODE at 5K Full Height (5120 × 3000) and 24 fps (GEMINI Only) 6:1 REDCODE at 5K Full Height (5120 × 3000) and 60 fps (GEMINI Only) 2:1 REDCODE at 5K Full Format (5120 × 2700) and 24 fps 8:1 REDCODE at 5K Full Format (5120 × 2700) and 96 fps 2:1 REDCODE at 4K Full Format (4096 × 2160) and 24 fps 6:1 REDCODE at 4K Full Format (4096 × 2160) and 120 fps		5:1 REDCODE for 8K Full Format (8192 × 4320) at 24 fps 12:1 REDCODE for 8K Full Format (8192 × 4320) at 60 fps 2:1 REDCODE for 5K Full Format (5120 x 2700) and 24 fps 8:1 REDCODE for 5K Full Format (5120 x 2700) and 96 fps 2:1 REDCODE for 4K Full Format (4096 × 2160) at 24 fps 3:1 REDCODE for 4K Full Format (4096 × 2160) at 60 fps	
ACQUISITION FORMATS[2]	5K Full Height 1.7:1 (5120 × 3000), 5K Full Height 6:5 (3600 × 3000), and Ana 2x, 1.3x (GEMINI Only) 5K Full Format (5120 × 2700), 2:1, 2.4:1, 16:9, 4:1, 8:1, and Ana 2x, 1.3x 4K Full Format (4096 × 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 × 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 × 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 × 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 × 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 × 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 × 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 × 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 × 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 × 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	

MAX DATA RATES	Up to 300 MB/s using RED MINI-MAG (480GB & 960GB) Up to 225 MB/s using RED MINI-MAG (120GB & 240GB)
APPLE PRORES	ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 4K (4096 × 2160) up to 30 fps ProRes 4444 XQ and ProRes 4444 at 2K (2048 × 1080) up to 120 fps ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 2K (2048 × 1080) up to 120 fps
AVID	DNxHR HQX at 4K (4096 × 2160) 12-bit up to 30 fps DNxHR HQ and SQ at 4K (4096 × 2160) 8-bit up to 30 fps DNxHR 444 at 2K (2048 × 1080) 12-bit up to 120 fps DNxHR HQ and SQ at 2K (2048 × 1080) 8-bit up to 120 fps DNxHD 444 and HQX (1920 × 1080) 10-bit up to 120 fps DNxHD HQ and SQ (1920 × 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 at www.red.com
2. For more information on available acquisition formats, see the DSMC Operation Guides at www.red.com

RED
DSMC2

ACCESSORIES

RED's guiding principle is, and always has been, about building the very best digital cinema cameras. We are inspired by creatives who trust our cameras to deliver superior image quality and incredible dynamic range in a variety of shooting environments. RED's modular DSMC2 line up, allows operators to create the perfect camera set-up based on RED and third-party accessories.

MODULES

RED modules are constructed from durable alloys and enable you to power your RED camera system including the BRAIN, accessories and peripherals. Created to address a wide variety of production environments, RED modules offer various Input/Output (I/O) options and support both Gold Mount and V-Lock batteries.

DISPLAYS

Touch screen capable LCD panels have been developed for RED BRAINs that innovate the way you navigate menus and monitor in the field. For the traditionalists, a RED EVF has been designed to impress with its color-accurate image and compact form-factor.

MEDIA

It is essential to know that your media is safely recording onto a stable medium. RED MINI-MAG SSD media introduces speed and stability previously unseen with most media systems. RED MINI-MAGs provide impressive data rates of up to 300 MB/s and are constructed of a durable aluminum for improved longevity and security in the field.

POWER

RED provides a variety of power options in the form of REDVOLT, REDVOLT-V, and RED BRICK batteries. RED BRICKs deliver a long lasting power solution, while RED-VOLTs, and REDVOLT-Vs provide you with substantial charge in a compact battery, great for travel or compact configurations.

CAMERA SUPPORT

RED offers mounts, plates, handles, adaptors, and other rigging to ensure your camera system is fully supported. Every components is tested and certified by RED to ensure compatibility with the DSMC2 camera line.

CAMERAS

The camera BRAIN is the primary building block of the RED system housing the image sensor and advanced computing components. The DSMC2 BRAIN offers four sensor options - MONSTRO 8K VV, HELIUM 8K S35, GEMINI 5K S35, and DRAGON-X 5K S35. Regardless of which sensor you choose, RED camera systems deliver superior image quality and impressive dynamic range in a lightweight design with integrated WiFi.

DSMC2 MONSTRO

RED's premier sensor provides cinematic Full Frame lens coverage and delivers 17+ stops of dynamic range

- 35.4 Megapixel 8K VV CMOS sensor (40.96 mm x 21.60 mm)
- REDCODE RAW at 8K Full Format (8192 x 4320) up to 60 fps
- Data rates up to 300 MB/s
- Apple ProRes recording at up to 4K
- Avid DNx recording at up to 4K
- Includes DSMC VV AL PL MOUNT 2.0

DSMC2 HELIUM

8K resolution in a Super 35 format and recipient of the highest DxO score ever

- 35.4 Megapixel 8K S35 CMOS sensor (29.90 mm x 15.77 mm)
- REDCODE RAW at 8K Full Format (8192 x 4320) up to 60 fps
- Data rates up to 300 MB/s
- Apple ProRes recording at up to 4K
- Avid DNx recording at up to 4K

DSMC2 GEMINI

Flexibility of Standard Mode for well-lit conditions and Low Light Mode for darker environments

- 15.4 Megapixel Dual Sensitivity 5K S35 CMOS sensor (30.72 mm x 18.00 mm)
- REDCODE RAW at 5K Full Height 1.7:1 (5120 × 3000) up to 75 fps
- REDCODE RAW at 5K Full Format (5120 x 2700) up to 96 fps
- Data rates up to 300 MB/s
- Apple ProRes recording at up to 4K
- Avid DNx recording at up to 4K

DSMC2 DRAGON-X

The industry workhorse and award-winning sensor, now with RED's enhanced Image Processing Pipeline (IPP2), delivers 5K cinematic imagery in a Super 35 format

- 13.8 Megapixel 5K S35 CMOS sensor (25.6 mm x 13.5 mm)
- REDCODE RAW at 5K Full Format (5120 x 2700) up to 96 fps
- Data rates up to 300 MB/s
- Apple ProRes recording at up to 4K
- Avid DNx recording at up to 4K