

# RED RANGER®



## ALL-IN-ONE CAMERA SYSTEM

No matter which amazing sensor you choose, the RED RANGER camera system will feature the same compact, standardized camera body, weighing around 7.5 pounds (depending on whether the user chooses the V-Lock or Gold Mount variant). RANGER comes complete with a comprehensive I/O array to satisfy power-hungry studio configurations, and boasts a large fan for quiet and more efficient temperature management.



## FEATURES:

- Integrated I/O's
- Three SDI outputs (two mirrored and one independent)
- Support for wider input voltage (11.5-32V)
- 24V & 12V power outs (two of each)
- 12V P-Tap port
- Integrated 5-pin XLR stereo audio input (line/mic/+48V selectable)
- Genlock, timecode, USB, and control
- Shimmed PL mount
- Large diameter fan provides improved thermal performance
- Available in V-Lock or Gold Mount variants

RED RANGER **MONSTRO 8K VV**



RED RANGER **HELIUM 8K S35**



RED RANGER **GEMINI 5K S35**



# RED RANGER®

	MONSTRO 8K VV	HELIUM 8K S35	GEMINI 5K S35
<b>SENSOR TYPE</b>	MONSTRO 35.4 Megapixel CMOS	HELIUM 35.4 Megapixel CMOS	GEMINI 15.4 Megapixel Dual Sensitivity CMOS
<b>EFFECTIVE PIXELS</b>	8192 × 4320	8192 × 4320	5120 × 3000
<b>SENSOR SIZE</b>	40.96 mm x 21.60 mm (Diagonal: 46.31 mm)	29.90 mm x 15.77 mm (Diagonal: 33.80 mm)	30.72 mm x 18.0 mm (Diagonal: 35.61 mm)
<b>DYNAMIC RANGE</b>	17+ stops	16.5+ stops	16.5+ stops
<b>MAX FRAME RATES<sup>1</sup></b>	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)		75 fps at 5K Full Height 1.7:1 (5120 × 3000) 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)
<b>REDCODE SETTINGS RANGE FROM 2:1 UP TO 22:11</b>	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 × 2700) and 24 fps 8:1 REDCODE for 5K Full Format (5120 × 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		3:1 REDCODE at 5K Full Height (5120 × 3000) and 24 fps 6:1 REDCODE at 5K Full Height (5120 × 3000) and 60 fps 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
<b>REDCODE RAW ACQUISITION FORMATS<sup>2</sup></b>	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		5K Full Height 1.7:1 (5120 × 3000), 5K Full Height 6:5 (3600 × 3000), and Ana 2x, 1.3x 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
<b>MAX DATA RATES</b>	Up to 300 MB/s using RED MINI-MAG (480GB & 960GB) Up to 225 MB/s using RED MINI-MAG (120GB & 240GB)		
<b>APPLE PRO RES</b>	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		
<b>AVID CODECS<sup>3</sup></b>	DNxHR HQX at 4K (4096 × 2160) 12-bit up to 30 fps DNxHR HQ, SQ and LB at 4K (4096 × 2160) 8-bit up to 30 fps DNxHR 444 at 2K (2048 × 1080) 12-bit up to 120 fps DNxHD 444 and HQX (1920 × 1080) 10-bit up to 120 fps DNxHD HQ, SQ and LB (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, refer to Operation Guides on [www.red.com](http://www.red.com)

2. For more information on available acquisition formats, refer to Operation Guides on [www.red.com](http://www.red.com)

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