

RED Scarlet W Camera

Rental and Application Notes

- 5K Full Format recording
- Simultaneous REDCODE RAW and Apple ProRes or Avid DNxHR/HD recording
- RED DRAGON sensor
- Interchangeable lens mounts



	Specifications
Sensor Type	RED Dragon 13.8 MP Super 35mm CMOS
Unit Weight	3.5 lbs (BRAIN with Integrated Media Bay) 9 lbs (Camera kit without lens) 13 lbs (Camera kit with lens)
Sensor Size	25.6 mm x 13.5 mm (Diagonal: 28.9 mm)
Effective Pixels	5120 x 2700
Dynamic Range	16.5+ stops
Max Data Rates	Up to 170 MB/s using RED Mini-Mag
Max Frame Rate	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)
Playback Frame Rate (Project Timebase)	23.98, 24, 25, 29.97, 47.95, 48, 50, 59.94, 60 fps, all resolutions
REDCODE settings Range From 2:1 up to 22:1	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
REDCODE Raw Acquisition Formats	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
Apple Prores	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
AVID Codecs	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
Typical Max Recording Time Using Red Mini-Mag 120GB	5K Full Format (5120 x 2700) at 24 fps and 11:1 REDCODE: 41 minutes 5K Full Format (5120 x 2700) at 48 fps and 14:1 REDCODE: 26 minutes 4.5K 2.4:1 (4608 x 1944) at 120 fps and 15:1 REDCODE 17 minutes

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	Specifications
Construction	Aluminum Alloy
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	Supports 17x17x17 3D LUTs Variable number of 3D LUT outputs with DSMC2 expander module User programmable shaper 1D LUTs Tetrahedral interpolation, 16-bit processing
Audio	Integrated dual channel digital stereo microphones, uncompressed, 24-bit 48 kHz Optional 2 additional channels with DSMC2 expander module, uncompressed, 24-bit 48 kHz
Remote Control	Integrated R.C.P. WiFi antenna Ethernet, RS232, and GPI Trigger with DSMC2 expander module
Monitor Outputs	3G-SDI (HD-SDI) and HDMI with DSMC2 expander module 1080p RGB or 4:2:2, 720p RGB or 4:2:2 480p RGB or 4:2:2 (HDMI Only) SMPTE Timecode, HANC Metadata, 24-bit 48 kHz Audio
Monitor Options	DSMC2 RED Touch 4.7" LCD, DSMC2 RED Touch 7.0" LCD and DSMC2 RED EVF (OLED) with cable-free connection. RED Touch 9.0" LCD, RED Touch 7.0" LCD, RED Touch 5.0" LCD, RED PRO 7" LCD, BOMB EVF (OLED) and BOMB EVF (LCOS) compatible with DSMC2 LEMO Adaptor A and LCD/EVF cable.
REDCINE-X PRO Delivery Formats	4K: DPX, TIFF, OpenEXR (.RED via RREncode plugin) 2K: DPX, TIFF, OpenEXR (.RED via RREncode plugin) 1080p RGB 4:2:2, 720p 4:2:2 : QuickTime, JPEG, AVID AAF, MXF 1080p 4:2:0, 720p 4:2:0 : H.264, .MP4
Video Editing Software Compatibility	Adobe Premiere Pro, Avid Media Composer, DaVinci Resolve, Edius Pro, Final Cut Pro, Vegas Pro