



TECH SPECS	RED RAVEN™
SENSOR	8.8 Megapixel RED DRAGON®
PIXEL ARRAY	4096 (h) x 2160 (v)
MAX IMAGE AREA	4096 (h) x 2160 (v)
SENSOR SIZE	20.48 mm (h) x 10.8 mm (v) x 23.2 mm (d)
	(Approximately equivalent to APS-C and Academy 35mm formats)
DYNAMIC RANGE	16.5+ stops
S/N RATIO	80 dB
RECORDING FRAME RATES ¹	4K (4096 x 2160) up to 120 fps
	3K (3072 x 1620) up to 160 fps
	2K (2048 x 1080) up to 240 fps
PLAYBACK FRAME RATES (PROJECT TIMEBASE)	23.98, 24, 25, 29.97, 47.96, 48, 50, 59.94 fps, all resolutions
REDCODE® COMPRESSION ¹	3:1 maximum available REDCODE for 4K (4096 x 2160) at 24 fps
	7:1 maximum available REDCODE for 4K (4096 x 2160) at 60 fps
	13:1 maximum available REDCODE for 4K (4096 x 2160) at 120 fps
TYPICAL MAX RECORDING TIME USING RED MINI-MAG 120GB	4K (4096 x 2160) and 24 fps at 11:1 REDCODE: 64 minutes
	4K (4096 x 2160) and 60 fps at 14:1 REDCODE: 33 minutes
	4K (4096 x 2160) and 120 fps at 14:1 REDCODE: 16 minutes
REDCODE RAW ACQUISITION FORMATS ²	4K (4096 x 2160), 2:1 (4096 x 2048), 2.4:1 (4096 x 1728), UHD/16:9 (3840 x 2160)
	3K (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 (2048 x 1080), 2:1 (2048 x 1024), 2.4:1 (2048 x 864), 16:9 (1920 x 1080), 3:2 (1920 x 1280)
APPLE PRORES	Apple ProRes 422 HQ up to 2K (2048 x 1080) and up to 60 fps
	Apple ProRes 422 up to 2K (2048 x 1080) and up to 60 fps
	Apple ProRes 422 LT up to 2K (2048 x 1080) and up to 60 fps
REDCINE-X PRO DELIVERY FORMATS ³	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® Premier® Pro, Avid® Media Composer®, DaVinci Resolve®, Edius Pro®, Final Cut Pro®, Vegas Pro®
MONITOR OUTPUTS	3G-SDI (HD-SDI) and HDMI with Expander Modules
	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	DSMC ² RED Touch 4.7" LCD
	DSMC ² RED Touch 7.0" LCD
	RED Touch 7.0" LCD
	RED PRO 7" LCD
	DSMC ² RED EVF (OLED)
	RED BOMB EVF (LCOS)
DIGITAL MEDIA (SSD)	RED MINI-MAG 1TB, 140MB/s max data rate
	RED MINI-MAG 512GB, 140 MB/s max data rate
	RED MINI-MAG 240GB, 140 MB/s max data rate
	RED MINI-MAG 120GB, 140 MB/s max data rate
AUDIO	Integrated dual channel digital stereo microphones, uncompressed, 24-bit 48 kHz.
	Optional 2 additional channels with Expander Module, uncompressed, 24-bit 48 kHz.
REMOTE CONTROL	Built-in Wireless.
	Ethernet, RS232 and GPI Trigger functionality with Expander Modules.
CONSTRUCTION	Aluminum Alloy
WEIGHT	3.5 lbs (BRAIN with Media Bay and Canon Lens Mount)
OPERATING TEMPERATURE	0°C to 40°C (32°F to 104°F)
STORAGE TEMPERATURE	-20°C to 50°C (-4°F to 122°F)

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. For more information, see the DSMC Media Operation Guide.
2. For more information on available acquisition formats, see the DSMC Operation Guide.
3. Export file formats from REDCINE-X PRO®.