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DSMC2 GEMINI TECHNICAL SPECIFICATIONS

DSMC2 GEMINI

SPECIFICATION	DESCRIPTION
Sensor Type	GEMINI® 15.4 Megapixel Dual Sensitivity CMOS
Effective Pixels	5120 x 3000
Sensor Size	30.72 mm x 18.00 mm (Diagonal: 35.61 mm)
Dynamic Range	16.5+ stops (Both Sensitivities)
Max Data Rates	Up to 300 MB/s using RED MINI-MAG® (480GB, 512GB, 960GB & 1TB) Up to 225 MB/s using RED MINI-MAG (120GB & 240GB)
REDCODE® RAW Max Frame Rates ¹	75 fps at 5K Full Height 1.7:1 (5120 x 3000) 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)
Playback Frame Rates (Project Time Base)	23.98, 24, 25, 29.97, 47.95, 48, 50, 59.94, 60 fps, all resolutions
Best Available REDCODE Settings ¹	3:1 REDCODE at 5K Full Height (5120 x 3000) and 24 fps 6:1 REDCODE at 5K Full Height (5120 x 3000) and 60 fps 2:1 REDCODE at 5K Full Format (5120 x 2700) and 24 fps 8:1 REDCODE at 5K Full Format (5120 x 2700) and 96 fps 2:1 REDCODE at 4K Full Format (4096 x 2160) and 24 fps 6:1 REDCODE at 4K Full Format (4096 x 2160) and 120 fps
REDCODE RAW Acquisition Formats ²	5K Full Height 1.7:1 (5120 x 3000), 6:5 and Ana 2x, 1.3x 5K Full Format (5120 x 2700), 2:1, 2.4:1, 16:9, 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, 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

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Apple® ProRes	ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 4K (4096 × 2160) up to 29.97 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® Codecs	DNxHR HQX at 4K (4096 × 2160) 12-bit up to 29.97 fps DNxHR HQ, SQ and LB at 4K (4096 × 2160) 8-bit up to 29.97 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
Construction	Aluminum Alloy
Weight	3.35 lbs (BRAIN® with Integrated Media Bay)
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	Improved in-camera color science Supports 33×33×33, 32×32×32, 26×26×26, and 17×17×17 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.

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	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 REncode plugin) 2K: DPX, TIFF, OpenEXR (.RED via REncode 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 ³	Adobe [®] Premiere [®] Pro, Avid Media Composer [®] , DaVinci Resolve [®] , Edius Pro [®] , Final Cut Pro [®] , Vegas Pro [®]

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, see the [DSMC Media Operation Guide](#).

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