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| SENSOR TYPE | RED DRAGON-X 13.8 Megapixel Super 35mm CMOS |
| EFFECTIVE PIXELS | 5120 x 2700 |
| SENSOR SIZE | 25.6 mm x 13.5 mm (Diagonal: 28.9 mm) |
| DYNAMIC RANGE | 16.5+ stops |
| 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) |
| MAX FRAME RATES | 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 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 | 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 | 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 HQ, ProRes 422 and ProRes 422 LT at 4K (4096 x 2160) up to 30 fps ProRes 4444 XQ and ProRes 4444 at 2K (2048 x 1080) up to 120 fps ProRes 422 HQ, ProRes 422 and ProRes 422 LT at 2K (2048 x 1080) up to 120 fps |
| AVID CODECS | DNxHR HQX at 4K (4096 x 2160) 12-bit up to 30 fps DNxHR HQ, SQ and LB at 4K (4096 x 2160) 8-bit up to 30 fps DNxHR 444 at 2K (2048 x 1080) 12-bit up to 120 fps DNxHD 444 and HQX (1920 x 1080) 10-bit up to 120 fps DNxHD HQ, SQ and LB (1920 x 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 | Supports 33x33x33, 32x32x32, 26x26x26, and 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® Touch 7.0" Ultra-Brite LCD (Direct Mount), 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, DSMC2 Touch 7.0" Ultra-Brite LCD, BOMB EVF (OLED) and BOMB EVF (LCOS) compatible with DSMC2 LCD/EVF Adaptor A or DSMC2 LCD/EVF Adaptor D, 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 |