



Digital Camera Comparison Chart

| | Model | Sensor size | Max Resolution | Native iso | Latitude | Frame Rate | Codec | Data Rate | Size / Weight |
|------|-----------------|--|------------------------------|------------|-----------|--|------------------------------------|---|---|
| ARRI | Alexa EV | 16x9 23.8 x 13.4mm 27.3mm Diag. | 2048x1152 raw:2880x1620 | 800ei | 14+ stops | 0.75 - 120fps | ProRes ArriRaw DNx HD | (ProRes444) 127 GB /h | 12.95" L x 6.02" H x 6.22" W 13.8lbs |
| | Alexa Plus | 16x9 23.8 x 13.4mm 27.3mm Diag. | 2048x1152 raw:2880x1620 | 800ei | 14+ stops | 0.75 - 120fps | ProRes ArriRaw DNx HD | (ProRes444) 127 GB /h | 12.95" L x 6.89" W x 6.22" H 15.4 lbs |
| | Alexa Plus 4:3 | 4x3 23.8 x 17.8mm 29.7mm Diag. | 2048x1536 raw:2880x2160 | 800ei | 14+ stops | 0.75 - 120fps | ProRes ArriRaw DNx HD | (ProRes444) 2k 4:3 196 GB /h | 12.95" L x 6.89" W x 6.22" H 15.4 lbs |
| | Alexa XT Plus | 4x3 23.8 x 17.8mm 29.7mm Diag. | 3164x1778 raw:3414x2196 | 800ei | 14+ stops | 0.75 - 120fps 4:3]96fps max | ProRes ArriRaw DNx HD | (ArriRaw) 2.8k 4:3 806 GB /h | 12.95" L x 7.20" W x 6.22" H 16.1 lbs |
| | Alexa Studio | 4x3 23.8 x 17.8mm 29.7mm Diag. | 2048x1536 raw:2880x2160 | 800ei | 14+ stops | 0.75 - 120fps 4:3]48fps max shutter] 60max | ProRes ArriRaw DNx HD | (ProRes444) 2k 4:3 196 GB /h | 12.95" L x 7.20" W x 6.22" H 17.3 lbs |
| | Alexa XT Studio | 4x3 23.8 x 17.8mm 29.7mm Diag. | 3164x1778 raw:3414x2196 | 800ei | 14+ stops | 0.75 - 120fps 4:3]96fps max shutter] 60max | ProRes ArriRaw DNx HD | (ArriRaw) 2.8k 4:3 806 GB /h | 12.95" L x 7.20" W x 6.22" H 18.3 lbs |
| | Alexa XT M | 4x3 23.8 x 17.8mm 29.7mm Diag. | 3164x1778 raw:3414x2196 | 800ei | 14+ stops | 0.75 - 120fps 4:3]96fps max | ProRes ArriRaw DNx HD | (ArriRaw) 2.8k 4:3 806 GB /h | 8.35" L x 5.08" W x 5.87" H 6.4 lbs |
| | Alexa Mini | 4x3 23.8 x 17.8mm 29.7mm Diag. | 3840 x 2160 raw:2880x2160 | 800ei | 14+ stops | 0.75 - 200fps | ProRes ArriRaw | (ArriRaw) 2.8k 4:3 806 GB /h | 7.30" L x 4.90" W x 5.50" H 5.0 lbs |
| | Amira Premium | 16x9 26.4 x 14.9mm 30.3mm Diag. | 3840 x 2160 (no raw) | 800ei | 14+ stops | 0.75 - 200fps | ProRes | (ProRes444) 127 GB /h uhd 536GB/h | 12.1" L x 5.4" W x 5.8" H 9.2 lbs |



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| CANON | C500PL | 17x9 26.2 x 13.8mm 29.6mm Diag. | 4096x2160 | 850ei | 12 stops | 1 - 120fps | MPEG-2.mxf Canon Raw | (MPEG-2) 22.5GB /h 4K raw(1.1TB) | 7.40" L x 7.30" W x 9.80" H 4.3 lbs |
| | C300PL | 16x9 24.6 x 13.8mm 28.2mm Diag. | 1920x1080 (no raw) | 850ei | 11+ stops | 1 - 60fps | 8-bit MPEG-2 Long GOP (.mxf) | 22.5GB /h | 7.40" L x 7.30" W x 9.80" H 3.6 lbs |
| | 7D | 16x9 22.3 x 12.5mm 25.6mm Diag. | 1920x1080 | 160ei | 10+ stops | 24, 30, 60fps | 8-bit MPEG-4 AVC/H.264 (.mov) | 20.7GB /h | 2.9" L x 5.8" W x 4.4" H 1.8 lbs |
| | 1D mk IV | 16x9 27.9 x 15.7mm 32mm Diag. | 1920x1080 | 100ei | 9+ stops | 24, 30, 60fps | 8-bit MPEG-4 AVC/H.264 (.mov) | 19.8GB /h | 3.1" L x 6.1" W x 6.2" H 2.6 lbs |
| | GoPro Hero3 Black | 17x9 6.3 x 3.3mm 7.1mm Diag. | 4096 x 2160 | 640ei | 8 stops | 12 - 240fps (240 wvga) | H.264/MP4 Protune RAW | 27GB /h | .83" L x 2.3" W x 1.6" H 2.7oz |
| | Iconix HD-RH1 | 16x9 5.2 x 2.9mm 6mm Diag. | 1920x1080 | 160ei | 8+ stops | 23.98 - 60fps | (ext. record) 422 HD 444 HD | n/a | 1.92" L x 1.32" W x 1.50" 2.3 oz. |
| | Panasonic Varicam35 | 17x9 24.6 x 13.0mm 27.8mm Diag. | 4096x2160 | 800ei & 5000ei | 14+ stops | 1 - 120fps (120 4k raw) | AVC-Intra 4K ProRes HD 4K Raw-Codex | | 13.69" L x 7.06" W x 5.66" H 18.3 lbs |
| | p+s technik Weisscam hs-2 mkii | 16x9 (HD) 22.18x22.18mm 25.44mm Diag. | 1920x1080 | 600ei | 10 stops | 1 - 2000fps (4000 720p) | (ext. record) 422 10bit HD weisscam raw | n/a | 15 lbs |



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| RED | Dragon | 30.7 x 15.8mm 34.5mm Diag. | 6144 x 3160 | 800ei | 16.5 stops | 1 - 300fps (300 2k) | Redcode Raw | (6k 8:1) 316.8GB /h | 5.83" L x 3.86" W x 5.78" H 5.0 lbs. |
| | Red One | 24.2 x 12.4mm 27.2mm Diag. | 4480 x 1920 | 800ei | 13+ stops | 1 - 120fps (120 2k) | Redcode Raw | (4K HD RC36) 79.2GB /h | 12.0" L x 5.2" W x 6.3" H 10.0 lbs |
| SONY | PMW-F55 | 17x9 24.0 x 12.7mm 27.2mm Diag. | 4096x2160 | 1250ei | 14 stops | 1 - 240fps (240 2k) | XAVC Raw | (XAVC) 108GB /h | 10.13" L x 5.00" W x 6.25" H 4.9 lbs |
| | F65 | 17x9 24.7 x 13.1mm 28mm Diag. | 4096x2160 | 800ei | 14 stops | 1 - 120fps (120 4k raw) | F65RAW HDCAM SR | (HDCAM SR) 1.4TB /h | 13.74" L x 9.13" W x 9.00" H 18.03 lbs |
| | a7s | 16X9 32.2 x 18.1mm 36.9mm Diag | 3840 x 2160 | 3200ei | 14 stops | 1-120 fps 120fps/128x720 (XAVC-S Only) | XAVC-S AVCHD | (AVCHD) 37GB /h | 1.94"L x 5."W x 3.75"H 1.13 lbs |
| | PMW-F3 | 16x9 23.6 x 13.3mm 27.1mm Diag | 1920x1080 | 800ei | 12+ stops | 1 - 60fps | XDCAM EX | 13.6GB /h | 8.38" L x 6.00" W x 7.50" H 5.3 lbs |
| | PMW-EX3 | 16x9 6.97 x 3.92mm 8mm Diag. | 1920x1080 | 320ei | 8+ stops | 1 - 60fps 60/1280x720 | XDCAM EX | 13.6GB /h | 16.75"L x 9.88 W x 8.38"H 7.9 lbs |
| | Vision Research Phantom 4K Flex | 27.7 x 15.6mm 31.8mm Diag. | 4096 x 2304 | 800ei | 12+ stops | 15 - 2949fps 1000 4k 2949 HD | Cine Raw | | 12.0" L x 6.0" W x 8.0" H 13 lbs |