



# Recording FORMATS

## ALEXA 35 XTREME

### Motion meets emotion

ALEXA 35 Xtreme is a major revision of the industry's trusted workhorse—ALEXA 35, known for its superior dynamic range and color science, ease of use, and reliable operation. Building on its predecessor's solid foundation, ALEXA 35 Xtreme answers filmmakers' wishes with higher speeds for breathtaking slow-motion images and introduces the efficient ARRICORE codec. Delivering longer pre-recording times, lower power consumption, improved WiFi capabilities, and streamlined recording formats, ALEXA 35 Xtreme enhances workflows and reduces costs on set as well as in post.

#### 4.6K 3:2 Open Gate 4.6K (4608 x 3164)



**Photosites**  
4608 x 3164

**Dimensions**  
27.99 x 19.22 mm  
1.102 x 0.756 inch

**Image Circle**  
33.96 mm  
1.337 inch

	1 TB	2 TB
ARRIRAW	35 fps	80 fps
ARRICORE	80 fps	120 fps
ARRICORE with Sensor Overdrive <sup>1</sup>	80 fps	165 fps
Apple ProRes 4444 XQ	60 fps	120 fps
Apple ProRes 4444	90 fps	120 fps
Apple ProRes 422 HQ	120 fps	120 fps

Maximum image quality, maximum resolution and maximum flexibility in post for shooting with spherical and anamorphic lenses. The image area is larger than traditional Super 35 film, so not all Super 35 lenses cover. This is the sensor mode with the highest data rate.

#### 4.6K 16:9 4.6K (4608 x 2592)



**Photosites**  
4608 x 2592

**Dimensions**  
27.99 x 15.75 mm  
1.102 x 0.620 inch

**Image Circle**  
32.12 mm  
1.265 inch

	1 TB	2 TB
ARRIRAW	45 fps	95 fps
ARRICORE	100 fps	150 fps
ARRICORE with Sensor Overdrive <sup>1</sup>	100 fps	200 fps
Apple ProRes 4444 XQ	70 fps	150 fps
Apple ProRes 4444	110 fps	150 fps
Apple ProRes 422 HQ	150 fps	150 fps

Full sensor width in a 16:9 format that suits many spherical Super 35 and all large format lenses, with extra room for flexibility in post. Lower data rate than 4.6K 3:2 Open Gate.

#### 4K 16:9 4K (4096 x 2304) · UHD (3840 x 2160) · 2K (2048 x 1152) · HD (1920 x 1080)



**Photosites**  
4096 x 2304

**Dimensions**  
24.88 x 14.00 mm  
0.980 x 0.551 inch

**Image Circle**  
28.55 mm  
1.124 inch

	1 TB	2 TB
ARRIRAW	55 fps	125 fps
ARRICORE	125 fps	150 fps
ARRICORE with Sensor Overdrive <sup>1</sup>	125 fps	210 fps
Apple ProRes 4444 XQ	90 fps	150 fps
Apple ProRes 4444	135 fps	150 fps
Apple ProRes 422 HQ	150 fps	150 fps

For projects using spherical lenses for a 16:9 or 1.85:1 deliverable with a 4K Cine resolution (4096 horizontal pixels). Also useful for spherical 16:9 or 1.85:1 projects with a UHD deliverable that want a little extra area for resizing, repositioning, stabilizing, or tracking in post. The sensor area is close to the traditional spherical Super 35 film format for compatibility with a wide range of Super 35 lenses.

#### 3.8K 16:9 3.8K (3840 x 2160)



**Photosites**  
3840 x 2160

**Dimensions**  
23.33 x 13.12 mm  
0.796 x 0.517 inch

**Image Circle**  
26.77 mm  
1.054 inch

	1 TB	2 TB
ARRIRAW	65 fps	140 fps
ARRICORE	145 fps	150 fps
ARRICORE with Sensor Overdrive <sup>1</sup>	145 fps	240 fps
Apple ProRes 4444 XQ	105 fps	150 fps
Apple ProRes 4444	150 fps	150 fps
Apple ProRes 422 HQ	150 fps	150 fps

For projects using spherical lenses for a 16:9 UHD deliverable. This is the 4K recording format with the lowest data rate for lowest cost and with the smallest image circle for maximum compatibility with spherical Super 35 lenses.

#### 3.8K 2.39:1 3.8K (3840 x 1608)



**Photosites**  
3840 x 1608

**Dimensions**  
23.33 x 9.77 mm  
0.918 x 0.385 inch

**Image Circle**  
25.29 mm  
0.996 inch

	1 TB	2 TB
ARRIRAW	85 fps	190 fps
ARRICORE	195 fps	240 fps
ARRICORE with Sensor Overdrive <sup>1</sup>	195 fps	240 fps
Apple ProRes 4444 XQ	140 fps	240 fps
Apple ProRes 4444	210 fps	240 fps
Apple ProRes 422 HQ	240 fps	240 fps

For projects using spherical lenses for a 2.39:1 deliverable. Also, the highest maximum frame rate of any 3.8K sensor mode.

#### 3.3K 6:5 3.3K (3328 x 2790) · 3.8 K 2.39:1 Ana 2x (3840 x 1608)



**Photosites**  
3328 x 2790

**Dimensions**  
20.22 x 16.95 mm  
0.796 x 0.667 inch

**Image Circle**  
26.38 mm  
1.039 inch

	1 TB	2 TB
ARRIRAW	55 fps	120 fps
ARRICORE	120 fps	120 fps
ARRICORE with Sensor Overdrive <sup>1</sup>	125 fps	210 fps
Apple ProRes 4444 XQ	90 fps	120 fps
Apple ProRes 4444	120 fps	120 fps
Apple ProRes 422 HQ	120 fps	120 fps

For projects using 2x anamorphic Super 35 lenses for a 2.39:1 deliverable. Negates the necessity of cropping Open Gate footage and fulfills 4K mandates.

#### 2K 16:9 S16 2K (2048 x 1152)



**Photosites**  
2048 x 1152

**Dimensions**  
12.44 x 7.00 mm  
0.490 x 0.275 inch

**Image Circle**  
14.27 mm  
0.562 inch

	1 TB	2 TB
ARRIRAW	230 fps	330 fps
ARRICORE	330 fps	330 fps
ARRICORE with Sensor Overdrive <sup>1</sup>	505 fps	660 fps
Apple ProRes 4444 XQ	330 fps	330 fps
Apple ProRes 4444	330 fps	330 fps
Apple ProRes 422 HQ	330 fps	330 fps

For maximum frame rates with Sensor Overdrive on and off. This is sometimes used to have extra padding around an HD deliverable. Close to the traditional Super 16 film format and therefore most Super 16 lenses cover.

#### HD 16:9 S16 HD (1920 x 1080)



**Photosites**  
1920 x 1080

**Dimensions**  
11.66 x 6.56 mm  
0.459 x 0.258 inch

**Image Circle**  
13.38 mm  
0.527 inch

	1 TB	2 TB
ARRIRAW	260 fps	330 fps
ARRICORE	330 fps	330 fps
ARRICORE with Sensor Overdrive <sup>1</sup>	590 fps	660 fps
Apple ProRes 4444 XQ	330 fps	330 fps
Apple ProRes 4444	330 fps	330 fps
Apple ProRes 422 HQ	330 fps	330 fps

Same maximum frame rate as 2K 16:9 but native HD. For shooting HD without any cropping/resizing in post. Close to the traditional Super 16 film format and therefore most Super 16 lenses cover.

<sup>1</sup> Please note that in Sensor Overdrive mode, Exposure Index = 800 to 6400, maximum shutter = 340°, Enhanced Sensitivity is disabled and the camera has a dynamic range of 11 stops.



More about ALEXA 35 Xtreme



Frame Line & Lens Illumination Tool



Data Rate Calculator

