



ARRI Signature Prime Lenses – Technical Details

	18/T1.8	21/T1.8	25/T1.8	35/T1.8	40/T1.8
Lens Mount	LPL	LPL	LPL	LPL	LPL
MOD from sensor plane (min. marked distance)	0.35 m / 14"	0.35 m / 14"	0.35 m / 14"	0.35 m / 14"	0.35 m / 14"
MOD from lens front	0.13 m / 5.1"	0.13 m / 5.1"	0.13 m / 5.1"	0.13 m / 5.1"	0.13 m / 5.1"
Length from flange	178 mm / 7.01"	178 mm / 7.01"	178 mm / 7.01"	178 mm / 7.01"	178 mm / 7.01"
Magnification Ratio at MOD (Paraxial)	1:9.2	1:8.2	1:7.1	1:5.4	1:4.8
Entrance pupil position (related to image plane, in direction to object)	189.9 mm / 7.48"	183.4 mm / 7.22"	178.1 mm / 7.01"	162.5 mm / 6.40"	159.8 mm / 6.29"
Angle of view H - V - D for LF Open Gate	91.4° / 71.0° / 102.6°	82.8° / 63.0° / 94.0°	73.0° / 54.4° / 84.0°	55.4° / 40.2° / 65.2°	49.2° / 35.4° / 58.2°
Front diameter	114 mm / 4.49"	114 mm / 4.49"	114 mm / 4.49"	114 mm / 4.49"	114 mm / 4.49"
Max. housing diameter	115 mm / 4.53"	115 mm / 4.53"	115 mm / 4.53"	115 mm / 4.53"	115 mm / 4.53"
Weight (lens only)	2.0 kg / 4.4 lb	2.1 kg / 4.6 lb	1.9 kg / 4.2 lb	1.7 kg / 3.7 lb	1.9 kg / 4.2 lb

	47/T1.8	75/T1.8	125/T1.8	150/T2.5
Lens Mount	LPL	LPL	LPL	LPL
MOD from sensor plane (min. marked distance)	0.45 m / 18"	0.65 m / 26"	1 m / 3' 4"	1.5 m / 5'
MOD from lens front	0.23 m / 9.0"	0.43 m / 16.9"	0.78 m / 2' 7"	1.25 m / 4' 2"
Length from flange	178 mm / 7.01"	178 mm / 7.01"	178 mm / 7.01"	208 mm / 8.19"
Magnification Ratio at MOD (Paraxial)	1:6.3	1:7.2	1:7.0	1:9.0
Entrance pupil position (related to image plane, in direction to object)	156.1 mm / 6.15"	118.6 mm / 4.67"	66.3 mm / 2.61"	145.4 mm / 5.72"
Angle of view H - V - D for LF Open Gate	42.6° / 30.4° / 50.8°	27.6° / 19.4° / 33.2°	16.6° / 11.6° / 20.2°	13.8° / 9.8° / 16.8°
Front diameter	114 mm / 4.49"	114 mm / 4.49"	114 mm / 4.49"	114 mm / 4.49"
Max. housing diameter	115 mm / 4.53"	115 mm / 4.53"	115 mm / 4.53"	135 mm / 5.31"
Weight (lens only)	1.8 kg / 4.0 lb	1.9 kg / 4.2 lb	2.3 kg / 5.1 lb	3.5 kg / 7.7 lb

Technical data are subject to change without notice.

ARRI Camera - Overview

Camera model	ALEXA LF	ALEXA SXT W	ALEXA SXT Studio	ALEXA Mini	AMIRA
Sensor format	Slightly larger than Full Frame 35mm		35mm	35mm	35mm
Sensor/ recording modes	2.39:1, 16:9, Open Gate	16:9, 6:5, 4:3, Open Gate	16:9, 6:5, 4:3, Open Gate	16:9, Open Gate	16:09
Max. number of recorded sensor photo sites	4448 x 3096	3424 x 2202	3424 x 2202	3424 x 2202	3200 x 1800
Frame rate	0.75 – 150 fps	0.75 - 120 fps	0.75 - 120 fps	0.75 - 200 fps	0.75 - 200 fps
Max. frame rate ARRI RAW	150 fps	120 fps	120 fps	48 fps	48 fps
Weight (body & lens mount)	7.8 kg / 17.2 lbs	7.2 kg / 15.9 lbs	8.2 kg / 18.1 lbs	2.3 kg / 5 lbs	4.1 kg / 9.2 lbs
Viewfinder	Electronical	Electronical	Optical	Electronical	Electronical
Shutter	Electronic Shutter, 5.0° - 358°	Electronic shutter, 5.0° to 358.0°	Rotating mirror shutter: 11.2° - 180.0° or Electronic shutter, 5.0° - 358.0°	Electronic shutter, 5.0° to 356.0°	Electronic shutter, 5.0° to 356.0°
Built-in wireless video monitoring	Yes	Yes	No	No	No
Integrated radio for wireless remote control	Yes	Yes	Yes	Yes	No
Multicam interface	No	No	No	Yes	Yes
Behind the lens ND filter	Manual	Manual	Motorized	Motorized	Motorized

All information as of SUP 4.0 (ALEXA LF), SUP 2.0 (ALEXA SXT), SUP 5.4 (ALEXA Mini) and SUP 5.4 (AMIRA)

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Data Rates

For in-camera recording with ALEXA SXT cameras⁽⁵⁾

Sensor Mode	Recording File Type (1,2)	Recording Resolution	Output Resolution	Bit Depth	Target Data Rate @24fps (3)	Data Volume @24fps in GByte/h	Recording Time @24fps on					
							SXR Capture Drive @ 2TB	SXR Capture Drive 1TB	XR Capture Drive 512GB	Cfast 2.0 256 GB	SxS PRO+ 128 GB	SxS PRO+ 64 GB
16:9	ProRes 4444	HD	1920 x 1080	12	297 Mbit/s	134 GB/h	430 min	215 min	107 min	114 min	54 min	28 min
		2K	2048 x 1152	12	340 Mbit/s	153 GB/h	376 min	188 min	94 min	100 min	47 min	25 min
		3.2K	3200 x 1800	12	830 Mbit/s	374 GB/h	154 min	77 min	38 min	41 min	19 min	10 min
		4K UHD	3840 x 2160	12	1195 Mbit/s	538 GB/h	107 min	53 min	26 min	28 min	-	-
	ARRIRAW	2.8K	2880 x 1620	12	1386 Mbit/s	624 GB/h	189 min	94 min	47 min	-	-	-
		3.2K	3168 x 1782	12	1668 Mbit/s	751 GB/h	157 min	78 min	39 min	-	-	-
		2K	2048 x 858	12	253 Mbit/s	114 GB/h	505 min	252 min	126 min	134 min	64 min	33 min
6:5	ProRes 4444	Anamorphic	4096 x 1716	12	1012 Mbit/s	455 GB/h	126 min	63 min	31 min	33 min	16 min	8 min
		4K Cine	2592 x 2160 (4)	12	1655 Mbit/s	745 GB/h	158 min	79 min	39 min	-	-	-
	ARRIRAW	2.8K	2880 x 2160	12	896 Mbit/s	403 GB/h	142 min	71 min	35 min	38 min	18 min	9 min
	ARRIRAW	2.8K	2880 x 2160	12	1834 Mbit/s	825 GB/h	142 min	71 min	35 min	-	-	-
4:3	ARRIRAW	3.4K	3424 x 2202	12	1081 Mbit/s	486 GB/h	118 min	59 min	29 min	31 min	15 min	7 min
	ProRes 4444	4K Cine	4096 x 2636	12	1555 Mbit/s	700 GB/h	82 min	41 min	20 min	21 min	-	-
	ARRIRAW	3.4K	3424 x 2202	12	2214 Mbit/s	996 GB/h	117 min	58 min	29 min	-	-	-

- (1) ProRes is a variable bit rate codec. While it is usually close to the target data rate, the actual data rate can vary with image content.
- (2) The ALEXA ProRes target data rate is the Apple target data rate plus metadata and other overhead.
- (3) The remaining time indicated by the camera is always calculated based on the theoretical maximum data rate, not the target data rate, to be on the safe side.
- (4) The recording resolution is 2592 x 2160, although 2578 x 2180 pixel are used for image content. 14 pixels on the left and right of the recorded image do not belong to the image content and are stated as that in the metadata.
- (5) For the data rates in ProRes 4444 XD, 422 HQ and 422 please download from www.ari.com/cameras/alexa/downloads