



CINE LENSES

Relative Focal Lengths and Apertures for Thalia Lenses - ARRI Cameras

Thalia Lenses		Sensor (in mm)				Lens Angle of View (Relative Value based on Horizontal Angle)					
Focal Length	Aperture	Sensor Type	Horiz.	Vert.	Diag.	Horiz.	Vert.	Diag.	Horizontal Comparison	Relative Focal Length	Relative Aperture
24 mm	T3.6	ARRI Alexa LF	36.7	25.54	44.7	74.8°	56.°	85.9°	1.5x	16 mm	T2.4
30 mm	T2.9	4.5K Open Gate	36.7	25.54	44.7	62.9°	46.1°	73.4°	1.5x	20 mm	T1.9
35 mm	T2.6		36.7	25.54	44.7	55.3°	40.1°	65.1°	1.5x	23 mm	T1.7
45 mm	T2.9		36.7	25.54	44.7	44.4°	31.7°	52.8°	1.5x	29 mm	T1.9
55 mm	T2.8		36.7	25.54	44.7	36.9°	26.1°	44.2°	1.5x	36 mm	T1.8
70 mm	T2.6		36.7	25.54	44.7	29.4°	20.7°	35.4°	1.5x	46 mm	T1.7
100 mm	T2.2		36.7	25.54	44.7	20.8°	14.6°	25.2°	1.5x	65 mm	T1.4
120 mm	T2.6		36.7	25.54	44.7	17.4°	12.1°	21.1°	1.5x	78 mm	T1.7
180 mm	T3.6		36.7	25.54	44.7	11.6°	8.1°	14.2°	1.5x	118 mm	T2.4
24 mm	T3.6	ARRI Alexa LF	36.7	15.31	39.8	74.8°	35.4°	79.3°	1.5x	16 mm	T2.4
30 mm	T2.9	4.5K 2.39:1	36.7	15.31	39.8	62.9°	28.6°	67.1°	1.5x	20 mm	T1.9
35 mm	T2.6		36.7	15.31	39.8	55.3°	24.7°	59.2°	1.5x	23 mm	T1.7
45 mm	T2.9		36.7	15.31	39.8	44.4°	19.3°	47.7°	1.5x	29 mm	T1.9
55 mm	T2.8		36.7	15.31	39.8	36.9°	15.8°	39.8°	1.5x	36 mm	T1.8
70 mm	T2.6		36.7	15.31	39.8	29.4°	12.5°	31.7°	1.5x	46 mm	T1.7
100 mm	T2.2		36.7	15.31	39.8	20.8°	8.8°	22.5°	1.5x	65 mm	T1.4
120 mm	T2.6		36.7	15.31	39.8	17.4°	7.3°	18.8°	1.5x	78 mm	T1.7
180 mm	T3.6		36.7	15.31	39.8	11.6°	4.9°	12.6°	1.5x	118 mm	T2.4
24 mm	T3.6	ARRI Alexa LF	31.68	17.82	36.3	66.8°	40.7°	74.3°	1.3x	18 mm	T2.7
30 mm	T2.9	4K 16:9	31.68	17.82	36.3	55.7°	33.1°	62.4°	1.3x	23 mm	T2.2
35 mm	T2.6		31.68	17.82	36.3	48.7°	28.6°	54.9°	1.3x	27 mm	T2.0
45 mm	T2.9		31.68	17.82	36.3	38.8°	22.4°	44.°	1.3x	34 mm	T2.2
55 mm	T2.8		31.68	17.82	36.3	32.1°	18.4°	36.6°	1.3x	42 mm	T2.1
70 mm	T2.6		31.68	17.82	36.3	25.5°	14.5°	29.1°	1.3x	53 mm	T2.0
100 mm	T2.2		31.68	17.82	36.3	18.°	10.2°	20.6°	1.3x	76 mm	T1.7
120 mm	T2.6		31.68	17.82	36.3	15.°	8.5°	17.2°	1.3x	91 mm	T2.0
180 mm	T3.6		31.68	17.82	36.3	10.1°	5.7°	11.5°	1.3x	136 mm	T2.7



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Focal Length	Aperture	Sensor Type	Horiz.	Vert.	Diag.	Horiz.	Vert.	Diag.	Horizontal Comparison	Relative Focal Length	Relative Aperture
24 mm	T3.6	ARRI Alexa Mini/SXT 3.4K Open Gate	28.17	18.13	33.5	60.8°	41.4°	69.8°	1.2x	20 mm	T3.1
30 mm	T2.9		28.17	18.13	33.5	50.3°	33.6°	58.4°	1.2x	26 mm	T2.5
35 mm	T2.6		28.17	18.13	33.5	43.8°	29.°	51.1°	1.2x	30 mm	T2.2
45 mm	T2.9		28.17	18.13	33.5	34.8°	22.8°	40.8°	1.2x	38 mm	T2.5
45 mm	T2.8		28.17	18.13	33.5	34.8°	22.8°	40.8°	1.2x	38 mm	T2.4
70 mm	T2.6		28.17	18.13	33.5	22.8°	14.8°	26.9°	1.2x	60 mm	T2.2
100 mm	T2.2		28.17	18.13	33.5	16.°	10.4°	19.°	1.2x	85 mm	T1.9
120 mm	T2.6		28.17	18.13	33.5	13.4°	8.6°	15.9°	1.2x	102 mm	T2.2
180 mm	T3.6		28.17	18.13	33.5	8.9°	5.8°	10.6°	1.2x	153 mm	T3.1
24 mm	T3.6	ARRI Alexa 65 6.5K Open Gate	54.12	25.58	59.9	96.9°	56.1°	102.6°	2.3x	11 mm	T1.6
30 mm	T2.9		54.12	25.58	59.9	84.1°	46.2°	89.9°	2.3x	13 mm	T1.3
35 mm	T2.6		54.12	25.58	59.9	75.4°	40.1°	81.1°	2.3x	16 mm	T1.2
45 mm	T2.9		54.12	25.58	59.9	62.°	31.7°	67.3°	2.3x	20 mm	T1.3
55 mm	T2.8		54.12	25.58	59.9	52.4°	26.2°	57.1°	2.3x	24 mm	T1.2
70 mm	T2.6		54.12	25.58	59.9	42.3°	20.7°	46.3°	2.3x	31 mm	T1.2
100 mm	T2.2		54.12	25.58	59.9	30.3°	14.6°	33.3°	2.3x	44 mm	T1.0
120 mm	T2.6		54.12	25.58	59.9	25.4°	12.2°	28.°	2.3x	53 mm	T1.2
180 mm	T3.6		54.12	25.58	59.9	17.1°	8.1°	18.9°	2.3x	80 mm	T1.6
24 mm	T3.6	Super35 (3+4 perf) 1.78	24.003	13.487	27.5	53.1°	31.4°	59.7°	1x	24 mm	T3.6
30 mm	T2.9		24.003	13.487	27.5	43.6°	25.3°	49.3°	1x	30 mm	T2.9
35 mm	T2.6		24.003	13.487	27.5	37.9°	21.8°	42.9°	1x	35 mm	T2.6
45 mm	T2.9		24.003	13.487	27.5	29.9°	17.°	34.°	1x	45 mm	T2.9
55 mm	T2.8		24.003	13.487	27.5	24.6°	14.°	28.1°	1x	55 mm	T2.8
70 mm	T2.6		24.003	13.487	27.5	19.5°	11.°	22.3°	1x	70 mm	T2.6
100 mm	T2.2		24.003	13.487	27.5	13.7°	7.7°	15.7°	1x	100 mm	T2.2
120 mm	T2.6		24.003	13.487	27.5	11.4°	6.4°	13.1°	1x	120 mm	T2.6
180 mm	T3.6		24.003	13.487	27.5	7.6°	4.3°	8.7°	1x	180 mm	T3.6