

Lenses for LC-SXG400 Projector

Resolution: SXGA+ (1400x1050)

Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)

True Aperture: 0.768 in. wide

Screen Dimensions (H & W in ft., D in in.).

H'	1.5	3	5	6	7.5	9	12	15
W'	2	4	6.67	8	10	12	16	20
D"	30	60	100	120	150	180	240	300

Standard Lens	Ref.	T/W	Shift/Limits	Standard Lens	Xtend	EFL	Distance (expressed in feet).										
645 093 9068 (aka AH-23421)	S11	1.69 2.20	10:0~1:1	1.30"~1.69" Power, Zoom (33~43 mm) f:1.7~2.1	0.0" 0.0 mm	1.30 1.69	-	6.8	11.3	13.5	16.9	20.3	27.1	33.8	-	-	

Auxiliary Lenses	Ref.	T/W	Shift/Limits	Auxiliary Lenses	Xtend	EFL	Distance (expressed in feet).										
0001-4298	1625	0.82	1:1 (On Axis)	0.629" Manual, Fixed (16 mm) f:2.5	3.5" 89 mm	0.629	1.6	3.3	5.5	6.6	8.2	9.8	13.1	16.4			

AH-23631	W11	0.85	1:1 (On Axis)	0.065" Manual, Fixed (16.51 mm) f:2.3	0.0" 0.0 mm	0.650	1.7	3.4	5.6	6.8	8.5	10.2	13.5	16.9		
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0001-4300	2125	1.08	1:1 (On Axis)	0.826" Manual, Fixed (21 mm) f:2.5	4" 102mm	0.826	2.2	4.3	7.2	8.6	10.8	12.9	17.2	21.5		
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0001-4264	1028	1.30	8:1~1:1	1.0" Manual, Fixed (25.4 mm) f:2.8	2.5" 64 mm	1.00	2.6	5.2	8.7	10.4	13	15.6	20.8	26		
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AH-23511	W10	1.30 1.69	10:0~1:1	1.0"~1.3" Power, Zoom (25.4~33.0 mm) f:2.3~2.6	0.0" 0.0 mm	1.00 1.30	2.6 3.4	5.2 6.8	8.7 11.3	10.4 13.5	13 16.9	15.6 20.3	20.8 -	26 -		
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AH-23541	T10	2.23 3.57	10:0~1:1	1.71"~2.74" Power, Zoom (43.43~69.49 mm) f:2.0~2.6	1.0" 25 mm	1.71 2.74	4.5 7.1	8.9 14.3	14.9 23.8	17.8 28.5	22.3 35.7	26.7 -	35.6 -	44.5 -		
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0001-4269*	275	2.57 3.59	10:0~1.1 max w/a stripe	1.97~2.76" Manual, Zoom (50~70 mm) f:2.5	1.5" 38 mm	1.97 2.76	5.1 7.2	10.3 14.4	17.1 24.0	20.5 28.8	25.7 35.9	30.8 43.1	41 57.5	51.3 71.9		
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AH-23661	T11	3.54 5.60	10:0~1.1	2.72"~4.30" Power, Zoom (69.1~109.3 mm) f:2.1~2.5	1.14" 29 mm	2.72 4.30	7.1 11.2	14.2 22.4	23.6 37.3	28.3 44.8	35.4 56	42.5 67.2	56.7 89.6	70.8 112		
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0001-4266*	500	3.58 6.51	10:0~1.1 midrange stripe	2.75"~5.00" Manual, Zoom (70~120 mm) f:2.8	4" 102 mm	2.75 5.00	7.2 13.0	14.3 26	23.9 43.4	28.6 52.1	35.8 65.1	43 78.1	57.3 104	71.6 130		
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0001-4267*	087	6.77 11.33	10:0~1.1 max tele stripe	5.2"~8.7" Manual, Zoom (132~220 mm) f:3.0	8" 203 mm	5.20 8.70	13.5 22.7	27.1 45.3	45.2 75.6	54.2 90.6	67.7 113	81.3 136	108 181	135.4 226.6		
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0001-4268 OUT-OF-PRODUCTION	900	7.58 11.36	10:0~1.1	6.00"~9.00" Manual, Zoom (152~229 mm) f:3.5	7" 178 mm		TEMPORARILY OUT-OF PRODUCTION										
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Image Height for 16:9: width stays the same as 4:3 (ignore Diagonal).	H'	1.13	2.25	3.75	4.50	5.63	6.75	9.00	11.25
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* Limits - Lenses marked with an asterisk (*) generate a focused stripe of light outside the projected image at some point in their zoom.

Xtend - This column indicates the amount the lens protrudes from the front face of the cabinet at maximum extension.

How to use the T/W column. - If your screen size does not appear on this chart, use the T/W column to find the lens you need. Divide the Throw distance by the screen Width to get your "target T/W number". Then, look for a lens with a T/W range that covers it.

Understanding Shift/Limits. - The numbers in the Shift/Limits column express the projector positions possible as a ratio of the image heights Above:Below a line drawn perpendicular to the screen between the lens and the screen. 1:1 = center of the image. 10:0 = top of the image.

These charts are a simulation. - Effective Focal Length (EFL) most accurately represents lens behavior, and drives the calculations.. Calculations are from the front glass of the lens and accurate to approximately +/- 3.%. Specifications are subject to change without notice.

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