

**EIKI**

**Lenses for LC-XGC500, LC-XG400, & LC-XG250 Projectors**

**January 9, 2009.**

**Lenses for LC-XGC500, LC-XG400 and LC-XG250 Projectors**

Resolution: XGA (1024x768)

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

True Aperture: 0.79 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).										
Standard Lens		1.64	10:0~1:1	1.30"~1.69" Power, Zoom	0.0"	1.30	-	6.6	10.9	13.1	16.4	19.7	26.2	32.8			
For P/Ns, see below)		2.14		(33~43 mm) f:1.7~2.1	0.0 mm	1.69	4.3	8.6	14.3	17.1	21.4	25.7	-	-			

P/Ns. For LC-XG400, P/N is 645 093 9068 (aka AH-23421, Ref S11). For LC-XG300/250, P/N is 645 090 0617 (aka AH-23401, Ref S10)

Auxiliary Lenses		T/W		Auxiliary Lenses	Xtend	EFL	Distance (expressed in feet).										
0001-4298	1625	0.79	1:1 (On Axis)	0.629" Manual, Fixed (16 mm) f:2.5	3.5" 89 mm	0.629	1.6	3.2	5.3	6.4	7.9	9.5	12.7	15.9			
AH-23631	W11	0.82	1:1 (On Axis)	0.065" Manual, Fixed (16.51 mm) f:2.3	0.0" 0.0 mm	0.650	1.6	3.3	5.5	6.6	8.2	9.8	13.1	16.4			
0001-4300	2125	1.04	1:1 (On Axis)	0.826" Manual, Fixed (21 mm) f:2.5	4" 102mm	0.826	2.1	4.2	7	8.3	10.4	12.5	16.7	20.9			
0001-4264	1028	1.26	8:1~1:1	1.0" Manual, Fixed (25.4 mm) f:2.8	2.5" 64 mm	1.00	2.5	5.1	8.4	10.1	12.6	15.2	20.2	25.3			
AH-23511	W10	1.26 1.64	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	2.5 3.3	5.1 6.6	8.4 10.9	10.1 13.1	12.6 16.4	15.2 19.7	20.2 -	25.3 -			
AH-23541	T10	2.16 3.46	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	4.3 6.9	8.6 13.8	14.4 23.1	17.3 27.7	21.6 34.6	25.9 -	34.5 -	43.2 -			
0001-4269*	275	2.49 3.48	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	5.0 7.0	9.9 13.9	16.6 23.2	19.9 27.9	24.9 34.8	29.8 41.8	39.8 55.8	49.7 69.7			
AH-23661	T11	3.43 5.43	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	6.9 10.9	13.7 21.7	22.9 36.2	27.5 43.4	34.3 54.3	41.2 65.2	55 86.9	68.7 109			
0001-4266*	500	3.47 6.31	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	6.9 12.6	13.9 25.3	23.2 42.1	27.8 50.5	34.7 63.1	41.7 75.8	55.6 101	69.4 126			
0001-4267*	087	6.57 10.98	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	13.1 22.0	26.3 43.9	43.8 73.3	52.5 87.9	65.7 110	78.8 132	105 176	131.3 219.7			
0001-4268*	900	7.58 11.36	10:0~1.1 telephoto stripe	6.00"~9.00" Manual, Zoom ( 152~229 mm) f:3.5	7" 178 mm	6.00 9.00	15.2 22.7	30.3 45.5	50.5 75.8	60.6 90.9	75.8 114	90.9 136	121 182	151.5 227.3			

<b>Image Height for 16:9: width stays the same as 4:3 (ignore Diagonal).</b>		<b>H'</b>	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.