EIKI **Lenses for LC-XG300 and LC-XG250 Projectors** **April 24, 2007.**

Lenses for LC-XG300 and LC-XG250 Projectors

Resolution: XGA (1024x768)
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)
True Aperture: 0.792 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

EIKI Part No.	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
		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	-	-

EIKI P/N		T/W		Auxiliary Lenses		EFL	Distance (expressed in feet).							
0001-4298	1625	0.79	1:1	0.629" Manual, Fixed	3.5"	0.629	1.6	3.2	5.3	6.4	7.9	9.5	12.7	15.9
			(On Axis)	(16 mm) f:2.5	89 mm									
AH-23631	W11	0.82	1:1	0.0.65" Manual, Fixed	0.0"	0.650	1.6	3.3	5.5	6.6	8.2	9.8	13.1	16.4
			(On Axis)	(16.51 mm) f:2.3	0.0 mm									
0001-4300	2125	1.04	1:1	0.826" Manual, Fixed	4"	0.826	2.1	4.2	7	8.3	10.4	12.5	16.7	20.9
			(On Axis)	(21 mm) f:2.5	102mm									
0001-4264	1028	1.26	8:1~1:1	1.0" Manual, Fixed	2.5"	1.00	2.5	5.1	8.4	10.1	12.6	15.2	20.2	25.3
				(25.4 mm) f:2.8	64 mm									
AH-23511	W10	1.26	10:0~1:1	1.0"~1.3" Power, Zoom	0.0"	1.00	2.5	5.1	8.4	10.1	12.6	15.2	20.2	25.3
		1.64		(25.4~33.0 mm) f:2.3~2.6	0.0 mm	1.30	3.3	6.6	10.9	13.1	16.4	19.7	-	-
AH-23541	T10	2.16	10:0~1:1	1.71"~2.74" Power, Zoom	1.0"	1.71	4.3	8.6	14.4	17.3	21.6	25.9	34.5	43.2
		3.46		(43.43~69.49 mm) f:2.0~2.6	25 mm	2.74	6.9	13.8	23.1	27.7	34.6	-	-	-
0001-4269*	275	2.49	10:0~1.1	1.97~2.76" Manual, Zoom	1.5"	1.97	5.0	9.9	16.6	19.9	24.9	29.8	39.8	49.7
		3.48	max w/a stripe	(50~70 mm) f:2.5	38 mm	2.76	7.0	13.9	23.2	27.9	34.8	41.8	55.8	69.7
AH-23661	T11	3.43	10:0~1.1	2.72"~4.30" Power, Zoom	1.14"	2.72	6.9	13.7	22.9	27.5	34.3	41.2	55	68.7
		5.43		(69.1~109.3 mm) f:2.1~2.5	29 mm	4.30	10.9	21.7	36.2	43.4	54.3	65.2	86.9	109
0001-4266**	500	3.47	10:0~1.1	2.75"~5.00" Manual, Zoom	4"	2.75	6.9	13.9	23.2	27.8	34.7	41.7	55.6	69.4
		6.31	midrange stripe	(70~120 mm) f:2.8	102 mm	5.00	12.6	25.3	42.1	50.5	63.1	75.8	101	126
0001-4267***	087	6.57	10:0~1.1	5.2"~8.7" Manual, Zoom	8"	5.20	13.1	26.3	43.8	52.5	65.7	78.8	105	131.3
		10.98	max tele stripe	(132~220 mm) f:3.0	203 mm	8.70	22.0	43.9	73.3	87.9	110	132	176	219.7
0001-4268	900	7.58	10:0~1.1	6.00"~9.00" Manual, Zoom	7"	**TEMPORARILY OUT-OF PRODUCTION**								
OUT-OF-PRODUCTION		11.36		(152~229 mm) f:3.5	178 mm									
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

*** 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 **T**hrow distance by the screen **W**idth 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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