

EIKI

Lenses for LC-XG300 and LC-XG250 Projectors

November 10, 2006.

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	EFL	Distance (expressed in feet).							
Standard Lens		1.64	10:0~1:1	1.30"~1.69" Power, Zoom	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	1.69	4.3	8.6	14.3	17.1	21.4	25.7	-	-

EIKI P/N	Ref.	T/W	Shift/Limits	Auxiliary Lenses	EFL	Distance (expressed in feet).							
0001-4298	1625	0.79	1:1 (On Axis)	0.629" Manual, Fixed	0.629	1.6	3.2	5.3	6.4	7.9	9.5	12.7	15.9
				(16 mm) f:2.5									

0001-4300	2125	1.04	1:1 (On Axis)	0.826" Manual, Fixed	0.826	2.1	4.2	7	8.3	10.4	12.5	16.7	20.9
				(21 mm) f:2.5									

0001-4264	1028	1.26	8:1~1:1	1.0" Manual, Fixed	1.00	2.5	5.1	8.4	10.1	12.6	15.2	20.2	25.3
				(25.4 mm) f:2.8									

AH-23511	W10	1.26	10:0~1:1	1.0"~1.3" Power, Zoom	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	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	1.71	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	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	1.97	5.0	9.9	16.6	19.9	24.9	29.8	39.8	49.7
		3.48		(50~70 mm) f:2.5	2.76	7.0	13.9	23.2	27.9	34.8	41.8	55.8	69.7

0001-4266	500	3.47	10:0~1:1	2.75"~5.00" Manual, Zoom	2.75	6.9	13.9	23.2	27.8	34.7	41.7	55.6	69.4
		6.31		(70~120 mm) f:2.8	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	5.20	13.1	26.3	43.8	52.5	65.7	78.8	105	131.3
		10.98		(132~220 mm) f:3.0	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	6.00	15.2	30.3	50.5	60.6	75.8	90.9	121	151.5
		11.36		(152~229 mm) f:3.5	9.00	22.7	45.5	75.8	90.9	114	136	182	227

Notes:

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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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.

Touchboards

205 Westwood Ave, Long Branch, NJ 07740

Phone: 866-94 BOARDS (26273) / (732)-222-1511

Fax: (732)-222-7088 | E-mail: sales@touchboards.com