

EIKI

LENSES FOR LC-X800 (and LC-X8 and LC-X7) POWERHOUSE PROJECTORS

Sept. 27, 2011

Resolution: XGA (1024x768)

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

Aperture: 1.451 in. wide

Screen Dimensions.

H'	4.5	6	7.5	9	10.5	12	15	25	30
W'	6	8	10	12	14	16	20	33.33	40
D"	90	120	150	180	210	240	300	500	600

EIKI Part No.	Ref.	T/W	Diagonal	Shift/Limits	Auxiliary Lenses	Xtend#	EFL	Throw (Distance to Screen) in feet.											
*AH-32022	(W03)	0.81	Min: 40 Max: 600	V: 1:1 (on axis) H: 1:1 (on axis)	1.18" Manual, Fixed (30.0mm) f:2.5	TBA	1.18	4.9	6.5	8.1	9.8	11.4	13.0	16.3	27.1	32.5			
*AH-21012 (*AH-21011)	(W01Z) (W01)	1.21	Min: 40 Max: 600	V: 8:1 ~ 1:8 H: 3:2 ~ 2:3	1.76" Manual, Fixed (44.7mm) f:2.5	TBA	1.76	7.3	9.7	12.1	14.6	17.0	19.4	24.3	40.4	48.5			
*AH-32601***	W06	1.22	Min: 40	V: 8:1 ~ 1:8	1.77~2.25" Power, Zoom (45~57 mm) f:2.3~2.8	TBA	1.77	7.3	9.8	12.2	14.6	17.1	19.5	24.4	40.7	-			
		1.55	Max: 600	H: 1:1 (on axis)			2.25	9.3	12.4	15.5	18.6	21.7	24.8	31.0	51.7	-			
*AH-21202 (*AH-21201)	(W02Z) (W02)	1.42	Min: 40	V: 8:1 ~ 1:8	2.06~2.67" Power, Zoom (52.2~67.9 mm) f:2.53~2.95	TBA	2.06	8.5	11.3	14.2	17.0	19.8	22.7	28.3	47.2	56.7			
		1.84	Max: 600	H: 3:2 ~ 2:3			2.67	11.1	14.7	18.4	22.1	25.8	29.5	36.8	61.4	73.7			
AH-32401***	W04	1.55	Min: 30	V: 8:1 ~ 1:8	2.28"~2.99" Power, Zoom (58~76 mm) f:1.7~2.3	TBA	2.25	9.3	12.4	15.5	18.6	21.7	24.8	31.0	51.7	62.0			
		2.03	Max: 500	H: 1:1 (on axis)			2.95	12.2	16.3	20.3	24.4	28.5	32.5	40.7	67.8	-			
***0001-4297	(125)	1.90	Min: ∞	V: 8:1 ~ 1:8	2.75"~5.0" Manual, Zoom (70.7~125 mm) f:2.0	TBA	2.75	11.4	15.2	19.0	22.7	26.5	30.3	37.9	63.2	75.8			
		3.45	Max: ∞	TBA			5.00	20.7	27.6	34.5	41.4	48.2	55.1	68.9	114.9	138			
*945 044 0978 aka *AH-21102	(S02Z)	2.05	Min: 40	V: 10:0 ~ 0:10	2.98"~3.84" Power, Zoom (75.7~97.5 mm) f:2.0~2.3	TBA	2.98	12.3	16.4	20.5	24.6	28.8	32.9	41.1	68.5	82.2			
		2.65	Max: 600	H: 3:2 ~ 2:3			3.84	15.9	21.2	26.5	31.8	37.1	42.3	52.9	88.2	106			
*AH-22051	(S03)	2.63	Min: 100	V: 8:1 ~ 1:8	3.82~5.16" Power, Zoom (97~131mm) f:1.7~2.7	TBA	3.82	-	21.1	26.3	31.6	36.9	42.1	52.7	87.7	105			
		3.56	Max: 600	H: 3:2 ~ 2:3			5.16	-	28.4	35.6	42.7	49.8	56.9	71.1	119	142			
*AH-21023 (*AH-21021/2)	(M01E) (M01/Z)	3.38	Min: 40	V: 8:1 ~ 1:8	4.9~6.37" Power, Zoom (124.5~161.8 mm) f:2.0~2.6	TBA	4.9	20.3	27.0	33.8	40.5	47.3	54.0	67.5	113	135			
		4.39	Max: 600	H: 3:2 ~ 2:3			6.37	26.3	35.1	43.9	52.7	61.5	70.2	87.8	146	176			
*AH-21092	(T02)	4.29	Min: 40	V: 8:1 ~ 1:8	6.22~8.7" Power, Zoom (158~221mm) f:2.0~2.8	TBA	6.22	25.7	34.3	42.9	51.4	60.0	68.6	85.7	143	172			
		6.00	Max: 600	H: 3:2 ~ 2:3			8.7	36.0	48.0	60.0	72.0	83.9	95.9	120	200	240			
***0001-4261	(151)	5.00	Min: ∞	V: 8:1 ~ 1:8	7.25~12.38" Manual, Zoom (184~314mm) f:2.8	TBA	7.25	30.0	40.0	50.0	60.0	70.0	79.9	100	167	200			
		8.53	Max: ∞	TBA			12.38	51.2	68.3	85.3	102	119	137	171	284	341			
*AH-32581	(T03)	6.08	Min: 40	V: 8:1 ~ 1:8	8.82"~12.8" Manual, Zoom (224mm~325mm) f:2.2~2.5	TBA	8.82	36.5	48.6	60.8	72.9	85.1	97	122	203	243			
		8.82	Max: 600	H: 3:2 ~ 2:3			12.8	52.9	70.6	88.2	106	124	141	176	294	353			

In Widescreen Video Mode, 16:9 Source, Normal (default) Setting

Signal is scaled proportionally to fit: maintains aspect ratio.

Projected Image: 1024x576 - full width, 96 black pixels top & bottom

* These lenses require adapter 610 303 8742 (AH-25841) (LNA-01): one included with projector.

** These lenses require adapter 610 304 6228 (AH-25871) (LNA-02): one included with projector.

*** These lenses are supplied complete with adapter.

Xtend is calculated relative to cabinet: that is, excluding 3.031 in (77 mm) lens hood

H'	3.375	4.5	5.6	6.8	7.9	9.0	11.3	18.7	22.5
W'	6.0	8.0	10.0	12.0	14.0	16.0	20.0	33.3	40.0
D"	82.6	110	138	165	193	220	275	459	551

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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