

# EIKI

## Lenses for the LC-X85 (and LC-X80)

Oct. 9, 2013.

### Projector Specifications

Resolution: XGA (1024x768)

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

Maximum Image Size: 26.7"W x 20"H (400"D)

### Screen Dimensions.

H'	6	7.5	9	10.5	12	15
W'	8	10	12	14	16	20
D"	120	150	180	210	240	300

Factory Specifications				Description	Measurements and Calculations									
EIKI Part No.	Ref.	Diagonal	Shift/Limits	Auxiliary Lenses	Xtend	Wt	T/W	Throw (Distance to Screen) in ft.						
0001-4316	2125	infinity	V: 1:1 on axis H: 1:1 on axis	0.826" Manual, Fixed (21 mm) f:2.5	3.5" 89 mm	4.0 lb 1.81 kg	0.79	6.3	7.9	9.5	11.0	12.6	15.8	
AH-32012*	W32E	80~120"	V: 1:1 on axis H: 1:1 on axis	0.88" Manual, Fixed (22.3mm) f:2.5	2.66" 67.5 mm	3.53 1.6 kg	0.84	6.7	8.4	10.1	11.8	13.4	16.8	
0001-4317**	1028	infinity	V: 1:1 on axis H: 1:1 on axis	1.0" Manual, Fixed (25.4 mm) f:2.8	3.0" 76 mm	4.0 lb 1.81 kg	0.95	7.6	9.5	11.5	13.4	15.3	19.1	
AH-23122*	W31A	40~400" 40~400"	V: 10:0~1:1 H: TBA	1.35"~1.90" Power, Zoom (34.3~48.2 mm) f:2.5~3.0	3.76" 95.5 mm	3.75 1.7 kg	1.29 1.81	10.3 14.5	12.9 18.1	15.5 21.8	18 25.4	20.6 29	25.8 36.3	
945 047 2771 (AH-23081)***	S31	40~400" 40~300"	V: 10:0~1:1 H: 3:2~2:3	1.90"~2.47" Power, Zoom (48.2~62.6 mm) f:1.7~2.0	3.45" 87.5 mm	2.87 1.3 kg	1.81 2.35	14.5 18.8	18.1 23.5	21.7 28.2	25.3 32.9	29 37.6	36.2 -	
AH-23132*	T31A	40~400" 40~200"	V: 10:0~1:1 H: TBA	2.50"~4.39" Power, Zoom (63.5~111.5 mm) f:2.0~2.9	1.89" 48 mm	4.19 1.9 kg	2.39 4.19	19.1 33.5	23.9 41.9	28.6 50.3	33.4 -	38.2 -	47.7 -	
0001-4320	500	infinity infinity	V: 10:0~1:1 H: TBA	2.75"~5.0" Manual, Zoom (70~125 mm) f:2.8	5.0" 127 mm	4.0 lb 1.81 kg	2.62 4.77	21 38.2	26.2 47.7	31.5 57.3	36.7 66.8	42 76.3	52.5 95	
AH-24241*	T32	40~400" 40~250"	V: 10:0~1:1 H: TBA	4.41"~6.10" Power, Zoom (112~155 mm) f:2.1~2.7	3.37" 85.5 mm	3.75 1.7 kg	4.21 5.82	33.7 46.6	42.1 58.2	50.5 69.9	58.9 81.5	67.3 -	84 -	
0001-4321	087	infinity infinity	V: 10:0~1:1 H: TBA	5.2"~8.7" Manual, Zoom (132~220 mm) f:3.0	8.0" 203.00	8.0 lb 3.63 kg	4.96 8.30	39.7 66.4	49.6 83	59.5 99.6	69.5 116	79.4 133	99 166	
0001-4322	900	infinity infinity	V: 10:0~1:1 H: TBA	6.0"~9.0" Manual, Zoom (150~230 mm) f:3.5	5.0" 127 mm	6.0 lb 2.72	5.73 8.59	45.8 68.7	57.3 85.9	68.7 103	80.2 120	92 137	115 172	
<b>Image Height for 16:9:</b> width stays the same as 4:3 (ignore Diagonal								H'	4.5	5.6	6.8	7.9	9.0	11.3

### Notes:

\* "AH" lenses require lens adapter 610 331 7601 and one is included with the projector.

("0001" lenses have an integrated adapter.)

\*\* 0001-4317 and 0001-4318 lenses are not backward compatible ... cannot be used with the LC-X71/70/60.

\*\*\* A standard lens is not included. The 645 047 2770 (AH-23081) is the standard lens (same as used on the LC-X1000/1100/50M/70).

(The 645 043 7144 (AH-23061) lens used on the LC-X985/986/50/60/71 & LC-W3 can be used , but is not as bright.)

**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.** The T/W (Throw/Width) column most accurately represents lens behavior, and reflects the calculations. Calculations are from the front glass of the lens and accurate to approximately +/- 3%. Specifications are subject to change without notice.

**Legend.** Ref = abbreviated factory part numbers. Xtend = distance lens protrudes from cabinet

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