

**EIKI** **LENSES FOR LC-X8 and LC-X7 POWERHOUSE PROJECTORS** **January 12, 2009.**

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-32021                      | (W03)           | 0.81  | Min: 40<br>Max: 600 | V: 1:1 (on axis)<br>H: 1:1 (on axis) | 1.18" Manual, Fixed<br>(30.0mm) f:2.5                | 2.17 in<br>55 mm    | 1.18  | 4.9                                 | 6.5   | 8.1   | 9.8  | 11.4  | 13.0  | 16.3 | 27.1  | 32.5 |  |  |  |
| *AH-21012<br>(**AH-21011)      | (W01Z)<br>(W01) | 1.21  | Min: 40<br>Max: 600 | V: 8:1 ~ 1:8<br>H: 3:2 ~ 2:3         | 1.76" Manual, Fixed<br>(44.7mm) f:2.5                | 1.89 in<br>48 mm    | 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<br>(45~57 mm) f:2.3~2.8       | 2.54 in<br>64.5 mm  | 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<br>(**AH-21201)      | (W02Z)<br>(W02) | 1.42  | Min: 40             | V: 8:1 ~ 1:8                         | 2.06~2.67" Power, Zoom<br>(52.2~67.9 mm) f:2.53~2.95 | 0.58 in<br>14.5 mm  | 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<br>(58~76 mm) f:1.7~2.3       | 1.58 in<br>40 mm    | 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<br>(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<br>aka *AH-21102 | (S02Z)          | 2.05  | Min: 40             | V: 10:0 ~ 0:10                       | 2.98~3.84" Power, Zoom<br>(75.7~97.5 mm) f:2.0~2.3   | 0.24 in<br>6 mm     | 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<br>(97~131mm) f:1.7~2.7       | 2.92 in<br>74 mm    | 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  |  |  |  |
| ***0001-4260                   | (537)           | 3.09  | Min: ∞              | V: 8:1 ~ 1:8                         | 4.49~7.72" Manual, Zoom<br>(114~196mm) f:2.0         | TBA                 | 4.49  | 18.6                                | 24.8  | 30.9  | 37.1 | 43.3  | 49.5  | 61.9 | 103.1 | 124  |  |  |  |
|                                |                 | 5.32  | Max: ∞              | TBA                                  |                                                      |                     | 7.72  | 31.9                                | 42.6  | 53.2  | 63.8 | 74.5  | 85.1  | 106  | 177   | 213  |  |  |  |
| *AH-21022<br>(**AH-21021)      | (M01Z)<br>(M01) | 3.38  | Min: 40             | V: 8:1 ~ 1:8                         | 4.9~6.37" Power, Zoom<br>(124.5~161.8 mm) f:2.0~2.6  | -0.34 in<br>-8.5 mm | 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-21091                      | (T02)           | 4.29  | Min: 40             | V: 8:1 ~ 1:8                         | 6.22~8.7" Power, Zoom<br>(158~221mm) f:2.0~2.8       | 2.8 in<br>71 mm     | 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<br>(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<br>(224mm~325mm) f:2.2~2.5   | 11.42 in<br>290 mm  | 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  |  |  |  |
| ***0001-4299                   | (183)           | 7.37  | Min: ∞              | V: 8:1 ~ 1:8                         | 10.7~18.3" Manual, Zoom<br>(2.72~4.64mm) f:2.8       | TBA                 | 10.7  | 44.2                                | 59.0  | 73.7  | 88.5 | 103.2 | 118.0 | 148  | 246   | 295  |  |  |  |
|                                |                 | 12.61 | Max: ∞              | TBA                                  |                                                      |                     | 18.3  | 75.7                                | 100.9 | 126.1 | 151  | 177   | 202   | 252  | 420   | 505  |  |  |  |

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

Signal is scaled proportionatly 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

**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.

| 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  |