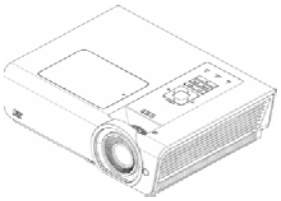
# Eiki Lens Chart  Lens Specs for Attached Lens Projectors  Dec. 6, 2016.

## EK-402U/A

Resolution: WUXGA (1920x1200)
Aspect Ratio: (10 High by 16 Wide by 18.868 Diagonal)
Aperture: 0.568 in. wide

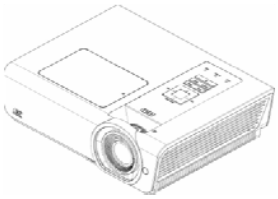


| Screen Dimensions. | | | | | |
|---|---|---|---|---|---|
| H' | 2.5 | 3.8 | 5 | 6.3 | 7.5 |
| W' | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 |
| D" | 57 | 85 | 113 | 142 | 170 |

| EK-402UA | | T/R | Shift/Limits | | EFL | Throw (Distance to Screen) in feet. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Attached Lens | | | | | | | | | | |
| | | | | | | | | | | |
| | | 1.39 | 20 : -1 | Manual, Zoom | 0.790 | 5.6 | 8.3 | 11.1 | 13.9 | 16.7 |
| | | 2.09 | (fixed) | f:2.4-2.9 | 1.185 | 8.3 | 12.5 | 16.7 | 20.9 | 25.0 |

## EK-401W/A

Resolution: WXGA (1280x800)
Aspect Ratio: (10 High by 16 Wide by 18.868 Diagonal)
Aperture: 0.568 in. wide

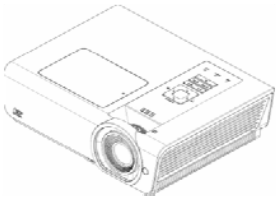


| Screen Dimensions. | | | | | |
|---|---|---|---|---|---|
| H' | 2.5 | 3.8 | 5 | 6.3 | 7.5 |
| W' | 4.0 | 6.0 | 8.0 | 10.0 | 12.0 |
| D" | 57 | 85 | 113 | 142 | 170 |

| EK-401WA | | T/R | Shift/Limits | | EFL | Throw (Distance to Screen) in feet. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Attached Lens | | | | | | | | | | |
| | | | | | | | | | | |
| | | 1.45 | 15 : -1 | Manual, Zoom | 0.822 | 5.8 | 8.7 | 11.6 | 14.5 | 17.4 |
| | | 2.17 | (fixed) | f:2.4-2.9 | 1.235 | 8.7 | 13.0 | 17.4 | 21.7 | 26.1 |

## EK-400X/A

Resolution: XGA (1024x768)
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)
Aperture: 0.56 in. wide



| Screen Dimensions. | | | | | |
|---|---|---|---|---|---|
| H' | 2 | 3 | 5 | 6 | 7.5 |
| W' | 4.0 | 6.0 | 8.00 | 10.0 | 12.0 |
| D" | 54 | 81 | 113.2 | 140 | 170 |

| EK-400XA | | T/R | Shift/Limits | | EFL | Throw (Distance to Screen) in feet. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Attached Lens | | | | | | | | | | |
| | | | | | | | | | | |
| | | 1.43 | 9 : -1 | Manual, Zoom | 0.800 | 5.7 | 8.6 | 11.4 | 14.3 | 17.1 |
| | | 2.14 | (fixed) | f:2.4~2.9 | 1.200 | 8.6 | 12.9 | 17.1 | 21.4 | 25.7 |

**How to use the T/R column.** If your screen size does not appear on this chart, use the T/R column to find the lens you need. Divide the **T**hrow distance by the screen **W**idth to get your "target T/R number". Then, look for a lens with a T/R 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. The two sides of a ratio are cumulative, so the expression 10:-1.7 means that the bottom of the image starts 1/8.3 of the image height above the imaginary lens center line.

**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 +/- 3.5%. Specifications are subject to change without notice.

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