

EIKI

Lenses for the EK-800U

Sept.16,2015

Projector Specifications

Resolution: WUXGA (1920x1200)
 Aspect Ratio: (10 High by 16 Wide by 18.86 Diagonal)
 Aperture : 0.814 in. wide

Screen Dimensions.

H'	3.8	4.5	6.3	7.5	8.8	10	11.3	12.5
W'	6	7.27	10	12	14	16	18	20.0
D''	85	103	142	170	198	226	255	283

Factory Specifications				Description	Measurements and Calculations													
EIKI Part No.	Diagonal	Shift Range	Shift Ratio	Auxiliary Lenses	Xtend	Wt	T/W	Throw (Distance to Screen) in ft.										
AH-B22010	50~500"	V: 0%	V: 1:1 (on axis)	Short Throw - Power Zoom f:2.0		9.9 lb	0.84	5.0	6.1	8.4	10.0	11.7	13.4	15.0	16.7			
		H: 0%	H: 1:1 (on axis)			4.5 kg	1.02	6.1	7.4	10.2	12.2	14.3	16.3	18.4	20.4			
AH-B22020	50~500"	V: +/-60%	V: 0.5-0.25~-0.25;0.5	Power Zoom f:2.0		12.7 lb	1.02	6.1	7.4	10.2	12.2	14.3	16.3	18.4	20.4			
	50~500"	H: +/-25%	H: 1:1 (on axis)			5.8 kg	1.36	8.2	9.9	13.6	16.4	19.1	21.8	24.5	27.3			
AH-B22030	50~500"	V: +/-60%	V: 0.5-0.25~-0.25;0.5	Power , Zoom f:2.2		13.2 lb	1.20	7.2	8.8	12.0	14.4	16.9	19.3	21.7	24.1			
	50~500"	H: +/-25%	H: 0.05:1~1:0.05			6.0 kg	1.50	9.0	10.9	15.0	18.1	21.1	24.1	27.1	30.1			
AH-B21010	50~500"	V: +/-60%	V: 0.5-0.25~-0.25;0.5	Power, Zoom f:2.0		11.2 lb	1.50	9.0	10.9	15.0	18.1	21.1	24.1	27.1	30.1			
	50~500"	H: +/-25%	H: 0.1:1~1:0.1			5.1 kg	2.00	12.0	14.5	20.0	24.0	27.9	31.9	35.9	39.9			
AH-B24010	50~500"	V: +/-60%	V: 0.5-0.25~-0.25;0.5	Power, Zoom f:2.2		11.4 lb	2.00	12	14.5	20	24	27.9	31.9	35.9	39.9			
	50~500"	H: +/-25%	H: 0.1:1~1:0.1			5.2 kg	4.00	24.0	29.1	40.0	48	56	64	72	80			
AH-B23010	50~500"	V: +/-60%	V: 0.5-0.25~-0.25;0.5	Power, Zoom f:2.2		10.1 lb	4.00	24	29.1	40	48	56	64	72	80			
	50~500"	H: +/-25%	H: 0.1:1~1:0.1			4.6 kg	7.20	43.2	52.3	72.0	86.4	100.8	115	130	144			

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..

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 +/- 5%. Specifications are subject to change without notice.