EIKI Lens Specifications for the EIP-3500, EIP-3000NA, EIP-3000N, EIP-2500 and EIP-200 October 2007

Native 4:3 Aspect Ratio Projectors

EIP-3500

XGA DLP PROJECTOR

Resolution: XGA (1024x768)
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)

Aperture: 0.541 in. wide

					Screen Dimensions.								
					H'	2	3	4	5	6	7.5	9	12	15
					W'	2.66	4	5.33	6.67	8	10	12	16	20
					D"	39.9	60	80	100	120	150	180	240	300
EIKI P/N:	Ref.	T/W	Shift (T:B)	Lens	EFL	Throw (Distance to Screen) in feet.								
	Standard	1.55	102.2% up	0.839"~1.244" Power, Zoom	0.84	4.1	6.2	8.3	10.3	12.4	15.5	18.6	24.8	31.00
		2.30	(fixed)	(21.3~31.6 mm) f:2.0~2.5	1.24	6.1	9.2	12.3	15.3	18.4	23.0	27.6	36.8	46.00

EIP-3000NA, EIP-3000N

XGA DLP PROJECTOR

EIP-3000NA, EIP-3000N Resolution: XGA (1024x768)
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)

Aperture: 0.439 in. wide

					Screen Dimensions.								
					H'	2	3	4	5	6	7.5	9	12	15
					W'	2.66	4	5.33	6.67	8	10	12	16	20
					D"	40	60	80	100	120	150	180	240	300
EIKI P/N:	Ref.	T/W	Shift (T:B)	Lens	EFL	Throw (Distance to Screen) in feet.								
	Standard	1.72	110.6% up	0.736"~0.847" Manual, Zoom	0.75	4.5	6.8	9.1	11.4	13.6	17.0	20.4	27.3	34.1
		1.99	(fixed)	(18.7~21.5 mm) f:2.4~2.6	0.86	5.2	7.9	10.5	13.1	15.7	19.6	23.6	31.4	39.3

EIP-2500

XGA DLP PROJECTOR

EIP-2500 Resolution: XGA (1024x768)
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)

Aperture: 0.439 in. wide

					Screen Dimensions.								
					H'	2	3	4	5	6	7.5	9	12	15
					W'	2.66	4	5.33	6.67	8	10	12	16	20
					D"	40	60	80	100	120	150	180	240	300
EIKI P/N:	Ref.	T/W	Shift (T:B)	Lens	EFL	Throw (Distance to Screen) in feet.								
	Standard	1.72	110.3% up	0.748"~0.862" Manual, Zoom	0.75	4.5	6.8	9.1	11.4	13.6	17.0	20.4	27.3	34.1
		1.99	(fixed)	(19~21.9 mm) f:2.4~2.6	0.86	5.2	7.9	10.5	13.1	15.7	19.6	23.6	31.4	39.3

EIP-200

SVGA DLP PROJECTOR

EIP-200 Resolution: SVGA (800x600)
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)

Aperture: 0.434 in. wide

					Screen Dimensions.								
					H'	2	3	4	5	6	7.5	9	12	15
					W'	2.66	4	5.33	6.67	8	10	12	16	20
					D"	40	60	80	100	120	150	180	240	300
EIKI P/N:	Ref.	T/W	Shift (T:B)	Lens	EFL	Throw (Distance to Screen) in feet.								
	Standard	1.72	110.9% up	0.748"~0.862" Manual, Zoom	0.75	4.6	6.9	9.2	11.5	13.8	17.2	20.7	27.6	34.50
		1.99	(fixed)	(19~21.9 mm) f:2.4~2.6	0.86	5.3	7.9	10.6	13.2	15.9	19.9	23.8	31.8	39.70

Notes

Image Height for 16:9: width stays the same as 4:3 (ignore Diagonal	H'	1.50	2.25	3.00	3.75	4.50	5.63	6.75	9.00	11.25

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 **T**hrow distance by the screen **W**idth to get your "target T/W number". Then, look for a lens with a T/W range that covers it.

Understanding Lens Shift The number in the Shift column expresses the projector's position relative to the image height. 50% positions the projector's lens perpendicular to the center of the image (on axis). 100% up positions the projector's lens perpendicular to the bottom edge of the image. 102.2%, 110.3% and 110.9% up positions the projector's lens perpendicular to a point 2.2%, 10.3% or 10.9% of the image height respectively, below 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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