EIKI **Lens Specifications: BRILLIANT Series Projectors** **September 10, 2007.**

LC-XB41, and LC-XB40, LC-XB40N

Resolution: XGA (1024x768)
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)
Nominal Panel Size 0.8" Diagonal
Aperture: 0.64 in. wide

Screen Dimensions.								
H'	2.0	3.0	5	6	7.5	9	12	15
W'	2.67	4	6.67	8	10	12	16	20
D"	40	60	100	120	150	180	240	300

Standard Lens	T/W	Shift/Limits	Lens Description	EFL	Throw (Distance to Screen) in feet.							
LC-XB40, LC-XB40N	1.64	9:1	1.05 ~ 1.26" Manual, Zoom	1.050	4.4	6.6	10.9	13.1	16.4	19.7	26.3	32.8
	2.00	(fixed)	(26.75~32.0 mm) f:1.7~2.1	1.280	5.3	8.0	13.3	16.0	20.0	24.0	32.0	-

LC-XB33, LC-XB24

Resolution: XGA (1024x768)
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)
Nominal Panel Size 0.63" Diagonal
Aperture: 0.504 in. wide

Screen Dimensions.								
H'	2.0	3.0	5	6	7.5	9	12	15
W'	2.67	4	6.67	8	10	12	16	20
D"	40	60	100	120	150	180	240	300

Standard Lens	T/W	Shift/Limits	Lens Description	EFL	Throw (Distance to Screen) in feet.							
LC-XB24	1.72	10:1	0.886"~1.063" Manual, Zoom	0.868	4.6	6.9	11.5	13.8	17.2	20.7	27.5	34.4
	2.06	(fixed)	(22.5~27 mm) f:1.65~1.81	1.040	5.5	8.3	13.8	16.5	20.6	24.8	33.0	41.3

LC-XB29N

Resolution: XGA (1024x768)
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)
Nominal Panel Size 0.63" Diagonal
Aperture: 0.504 in. wide

Screen Dimensions.								
H'	2.0	3.0	5	6	7.5	9	12	15
W'	2.67	4	6.67	8	10	12	16	20
D"	40	60	100	120	150	180	240	300

Standard Lens	T/W	Shift/Limits	Lens Description	EFL	Throw (Distance to Screen) in feet.							
LC-XB29N	1.38	10:1	0.697"~1.114" Manual, Zoom	0.696	3.7	5.5	9.2	11.0	13.8	16.6	22.1	27.6
	2.15	(fixed)	(17.7~28.3 mm) f:1.6~2.5	1.083	5.7	8.6	14.3	17.2	21.5	25.8	34.4	43.0

LC-XB28

Resolution: XGA (1024x768) or SVGA (800x600)
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)
Nominal Panel Size 0.79" Diagonal (0.8")
Aperture: 0.632 in. wide

Screen Dimensions.								
H'	2.0	3.0	5	6	7.5	9	12	15
W'	2.67	4	6.67	8	10	12	16	20
D"	40	60	100	120	150	180	240	300

Standard Lens	T/W	Shift/Limits	Lens Description	EFL	Throw (Distance to Screen) in feet.							
LC-XB28	1.25	9:1	0.787"~1.181" Manual, Zoom	0.787	3.3	5.0	8.3	10.0	12.5	14.9	19.9	24.9
	1.92	(fixed)	(20~30mm) f:1.7~2.5	1.215	5.1	7.7	12.8	15.4	19.2	23.1	30.8	-

Image Height for 16:9: width stays the same as 4:3 (ignore Diagonal).	H'	1.50	2.25	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 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.

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