EIKI

## Lens Specifications: BRILLIANT Series 4x3 Projectors

April 10, 2008.

LC-XB42 and LC-X													
	(B42N					Screen	n Dime	nsions					
Resolution: XGA (1024x768)				H'	2.0	3.0	5	6	7.5	9	12	15	
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)				W'	2.67	4	6.67	8	10	12	16	20	
Nominal Panel Size 0.8" Diagonal				D"	40	60	100	120	150	180	240	300	
Aperture:	0.64	in. wide											
Standard Lens		T/W	Shift/Limits	Lens Description	EFL	Throw	(Dista	nce to	Scree	n) in fe	et.		
LC-XB42, LC-XB42N		1.18	9:1	0.756 ~ 1.189" Manual, Zoom	0.756	3.2	4.7	7.9	9.5	11.8	14.2	18.9	23.6
		1.86	(fixed)	(19.2~30.2 mm) f:1.7~2.5	1.189	5.0	7.4	12.4	14.9	18.6	22.3	29.7	37.2
LC-XB41, LC-XB41N and LC-XB40, LC-XB40N					Screen Dimensions.								
Resolution: XGA (1024				H'	2.0	3.0	5	6	7.5	9	12	15	
Aspect Ratio: (3 High by 4 Wide by 5 Diagonal)				W'	2.67	4	6.67	8	10	12	16	20	
Nominal Panel Size	0.8" Diag	onal			D"	40	60	100	120	150	180	240	300
Aperture:	0.64	in. wide											
Standard Lens		T/W	Shift/Limits	Lens Description		Throw	<u>`</u>	-	Scree	n) in fe			
LC-XB41, LC-XB41N		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
LC-XB40, LC-XB40N		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-XB33N						Screen	n Dime	nsions					
Resolution: XGA (1024	4x768)				Η'	2.0	3.0	5	6	7.5	9	12	15
Aspect Ratio: (3 High	•		jonal)		W'	2.67	4	6.67	8	10	12	16	20
Nominal Panel Size	0.63" Dia	gonal			D"	40	60	100	120	150	180	240	300
Aperture:	0.504	in. wide											
				Long Departmention			Throw (Distance to Screen) in feet.						
Standard Lens		T/W	Shift/Limits	Lens Description			<u>`</u>	-		<u> </u>			
LC-XB33N		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
							<u>`</u>	-		<u> </u>		22.1 34.4	27.6 43.0
LC-XB33N		1.38	10:1	0.697"~1.114" Manual, Zoom	0.696	3.7	5.5	9.2	11.0	, 13.8	16.6		
LC-XB33N LC-XB29N <b>LC-XB33, LC-XB3</b> 1	-	1.38	10:1	0.697"~1.114" Manual, Zoom	0.696 1.083	3.7 5.7 Screen	5.5 8.6 Dime	9.2 14.3	11.0 17.2	13.8 21.5	16.6 25.8	34.4	43.0
LC-XB33N LC-XB29N <b>LC-XB33, LC-XB3</b> 1 Resolution: XGA (1024	4x768)	1.38 2.15	10:1 (fixed)	0.697"~1.114" Manual, Zoom	0.696 1.083 <b>H'</b>	3.7 5.7 <b>Scree</b> r 2.0	5.5 8.6	9.2 14.3 nsions 5	11.0 17.2	13.8 21.5 7.5	16.6 25.8 9	34.4 12	43.0
LC-XB33N LC-XB29N <b>LC-XB33, LC-XB3</b> 1 Resolution: XGA (1024 Aspect Ratio: (3 High	4x768) by 4 Wide	1.38 2.15 by 5 Diag	10:1 (fixed)	0.697"~1.114" Manual, Zoom	0.696 1.083 <b>H'</b> <b>W'</b>	3.7 5.7 <b>Screen</b> 2.0 2.67	5.5 8.6 <b>Dime</b> 3.0 4	9.2 14.3 nsions 5 6.67	11.0 17.2 6 8	13.8 21.5 7.5 10	16.6 25.8 9 12	34.4 12 16	43.0 15 20
LC-XB33N LC-XB29N <b>LC-XB33, LC-XB3</b> 1 Resolution: XGA (1024	4x768) by 4 Wide 0.63" Dia	1.38 2.15 by 5 Diag	10:1 (fixed)	0.697"~1.114" Manual, Zoom	0.696 1.083 <b>H'</b>	3.7 5.7 <b>Scree</b> r 2.0	5.5 8.6 Dime 3.0	9.2 14.3 nsions 5	11.0 17.2	13.8 21.5 7.5	16.6 25.8 9	34.4 12	43.0
LC-XB33N LC-XB29N <b>LC-XB33, LC-XB3</b> 1 Resolution: XGA (1024 Aspect Ratio: (3 High	4x768) by 4 Wide	1.38 2.15 by 5 Diag gonal in. wide	10:1 (fixed) gonal)	0.697"~1.114" Manual, Zoom (17.7~28.3 mm) f:1.6~2.5	0.696 1.083 H' W' D"	3.7 5.7 <b>Screen</b> 2.0 2.67 40	5.5 8.6 <b>Dime</b> 3.0 4 60	9.2 14.3 nsions 5 6.67 100	11.0 17.2 6 8 120	13.8 21.5 7.5 10 150	16.6 25.8 9 12 180	34.4 12 16	43.0 15 20
LC-XB33N LC-XB29N LC-XB33, LC-XB31 Resolution: XGA (1024 Aspect Ratio: (3 High Nominal Panel Size Aperture: Standard Lens	4x768) by 4 Wide 0.63" Dia	1.38 2.15 by 5 Diag gonal in. wide <b>T/W</b>	10:1 (fixed)	0.697"~1.114" Manual, Zoom (17.7~28.3 mm) f:1.6~2.5 Lens Description	0.696 1.083 H' W' D" EFL	3.7 5.7 2.0 2.67 40	5.5 8.6 3.0 4 60 (Dista	9.2 14.3 nsions 5 6.67 100 nce to	11.0 17.2 6 8 120 Scree	13.8 21.5 7.5 10 150 <b>n) in fe</b>	16.6 25.8 9 12 180	34.4 12 16 240	43.0 15 20 300
LC-XB33N LC-XB29N LC-XB29N LC-XB33, LC-XB31 Resolution: XGA (102- Aspect Ratio: (3 High Nominal Panel Size Aperture: Standard Lens LC-XB33, LC-XB31	4x768) by 4 Wide 0.63" Dia	1.38 2.15 by 5 Diag gonal in. wide <b>T/W</b> 1.72	10:1 (fixed) gonal) Shift/Limits 10:1	0.697"~1.114" Manual, Zoom (17.7~28.3 mm) f:1.6~2.5 Lens Description 0.886"~1.063" Manual, Zoom	0.696 1.083 H' W' D" EFL 0.868	3.7 5.7 2.0 2.67 40 Throw 4.6	5.5 8.6 <b>Dime</b> 3.0 4 60 <b>(Dista</b> 6.9	9.2 14.3 <b>nsions</b> 5 6.67 100 <b>nce to</b> 11.5	11.0 17.2 6 8 120 <b>Scree</b> 13.8	13.8 21.5 7.5 10 150 <b>n) in fe</b> 17.2	16.6 25.8 9 12 180 eet. 20.7	34.4 12 16 240 27.5	43.0 15 20 300 34.4
LC-XB33N LC-XB29N LC-XB33, LC-XB31 Resolution: XGA (1024 Aspect Ratio: (3 High Nominal Panel Size Aperture: Standard Lens	4x768) by 4 Wide 0.63" Dia	1.38 2.15 by 5 Diag gonal in. wide <b>T/W</b>	10:1 (fixed) gonal) Shift/Limits	0.697"~1.114" Manual, Zoom (17.7~28.3 mm) f:1.6~2.5 Lens Description	0.696 1.083 H' W' D" EFL	3.7 5.7 2.0 2.67 40	5.5 8.6 3.0 4 60 (Dista	9.2 14.3 nsions 5 6.67 100 nce to	11.0 17.2 6 8 120 Scree	13.8 21.5 7.5 10 150 <b>n) in fe</b>	16.6 25.8 9 12 180	34.4 12 16 240	43.0 15 20 300

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 Throw 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.

Eiki International, Inc. Tel: 800-322-3454, Fax: 800-457-3454, E-mail: usa@eiki.com In Canada: Tel: 800-563-3454, Fax: 800-567-4069, E-mail: canada@eiki.com Website: http://www.eiki.com