EIKI

Lens Specifications: BRILLIANT Series Projectors

September 10, 2007.

LC-XB41, and LC-XB40, I	C-XB4	0N			Scree	n Dime	ensions	-				
Resolution: XGA (1024x768)		<u></u>		H'	2.0	3.0	5	. 6	7.5	9	12	15
Aspect Ratio: (3 High by 4 Wide	e by 5 Dia	agonal)		 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				10	00	100	120	100	100	210	000
Standard Lens	T/W	Shift/Limits	Lens Description	EFL	Throw	(Dista	ince to	Scree	n) in fe	et.		
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	-
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LC-XB33, LC-XB24					Scree	n Dime	ensions					
Resolution: XGA (1024x768)				H'	2.0	3.0	5	6	7.5	9	12	15
Aspect Ratio: (3 High by 4 Wide	e by 5 Dia	agonal)		W'	2.67	4	6.67	8	10	12	16	20
Nominal Panel Size 0.63" Dia	agonal			D"	40	60	100	120	150	180	240	300
Aperture: 0.504	in. wide											
Standard Lens	T/W	Shift/Limits	Lens Description	EFL	Throw	/ (Dista	ince to	Scree	n) in fe	et.		
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					Scree	n Dime	ensions	-				
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
rispositivatio. (o ringh by 4 Wild						60	400	400				300
Nominal Panel Size 0.63" Dia	agonal			D"	40	60	100	120	150	180	240	000
	agonal in. wide			D"	40	60	100	120	150	180	240	
Nominal Panel Size 0.63" Dia	0	Shift/Limits	Lens Description				nce to	-			240	
Nominal Panel Size 0.63" Dia Aperture: 0.504	in. wide	Shift/Limits 10:1	Lens Description 0.697"~1.114" Manual, Zoom					-			240 22.1	27.6
Nominal Panel Size 0.63" Dia Aperture: 0.504 Standard Lens	in. wide T/W			EFL	Throw	(Dista	ince to	Scree	n) in fe	et.		
Nominal Panel Size 0.63" Dia Aperture: 0.504 Standard Lens LC-XB29N	in. wide T/W 1.38	10:1	0.697"~1.114" Manual, Zoom	EFL 0.696	Throw 3.7	(Dista 5.5	n ce to 9.2	Scree 11.0	n) in fe 13.8	et. 16.6	22.1	27.6
Nominal Panel Size 0.63" Dia Aperture: 0.504 Standard Lens	in. wide T/W 1.38	10:1	0.697"~1.114" Manual, Zoom	EFL 0.696	Throw 3.7 5.7	7 (Dista 5.5 8.6	n ce to 9.2	Scree 11.0 17.2	n) in fe 13.8	et. 16.6	22.1	27.6
Nominal Panel Size 0.63" Dia Aperture: 0.504 Standard Lens LC-XB29N	in. wide T/W 1.38 2.15	10:1 (fixed)	0.697"~1.114" Manual, Zoom	EFL 0.696	Throw 3.7 5.7	7 (Dista 5.5 8.6	9.2 14.3	Scree 11.0 17.2	n) in fe 13.8	et. 16.6	22.1	27.6 43.0
Nominal Panel Size 0.63" Dia Aperture: 0.504 Standard Lens LC-XB29N LC-XB28 Resolution: XGA (1024x768) or	in. wide T/W 1.38 2.15 SVGA (8	10:1 (fixed) 300x600)	0.697"~1.114" Manual, Zoom	EFL 0.696 1.083	Throw 3.7 5.7 Scree	r (Dista 5.5 8.6 n Dime	9.2 14.3	Scree 11.0 17.2	n) in fe 13.8 21.5	et. 16.6 25.8	22.1 34.4	27.6 43.0 15
Nominal Panel Size 0.63" Dia Aperture: 0.504 Standard Lens LC-XB29N	in. wide T/W 1.38 2.15 SVGA (8 e by 5 Dia	10:1 (fixed) 300x600) agonal)	0.697"~1.114" Manual, Zoom	EFL 0.696 1.083	Throw 3.7 5.7 Scree 2.0	(Dista 5.5 8.6 n Dime 3.0	9.2 9.2 14.3 ensions	Screen 11.0 17.2	n) in fe 13.8 21.5 7.5	et. 16.6 25.8 9	22.1 34.4 12	27.6 43.0 15 20
Nominal Panel Size 0.63" Dia Aperture: 0.504 Standard Lens LC-XB29N LC-XB28 Resolution: XGA (1024x768) or Aspect Ratio: (3 High by 4 Wide	in. wide T/W 1.38 2.15 SVGA (8 e by 5 Dia	10:1 (fixed) 300x600) agonal)	0.697"~1.114" Manual, Zoom	EFL 0.696 1.083 H' W'	Throw 3.7 5.7 Scree 2.0 2.67	v (Dista 5.5 8.6 n Dime 3.0 4	9.2 9.2 14.3 nsions 5 6.67	Scree 11.0 17.2	n) in fe 13.8 21.5 7.5 10	et. 16.6 25.8 9 12	22.1 34.4 12 16	27.6 43.0 15 20
Nominal Panel Size 0.63" Dia Aperture: 0.504 Standard Lens LC-XB29N LC-XB28 Resolution: XGA (1024x768) or Aspect Ratio: (3 High by 4 Widh Nominal Panel Size 0.79" Dia	in. wide T/W 1.38 2.15 SVGA (8 e by 5 Dia agonal (0.	10:1 (fixed) 300x600) agonal)	0.697"~1.114" Manual, Zoom	EFL 0.696 1.083 H' W' D"	Throw 3.7 5.7 Screee 2.0 2.67 40	(Dista 5.5 8.6 n Dime 3.0 4 60	9.2 9.2 14.3 nsions 5 6.67	Screen 11.0 17.2 6 8 120	n) in fe 13.8 21.5 7.5 10 150	et. 16.6 25.8 9 12 180	22.1 34.4 12 16	27.6 43.0 15 20
Nominal Panel Size 0.63" Dia Aperture: 0.504 Standard Lens LC-XB29N LC-XB28 Resolution: XGA (1024x768) or Aspect Ratio: (3 High by 4 Widh Nominal Panel Size 0.79" Dia Aperture: 0.632	in. wide T/W 1.38 2.15 SVGA (8 e by 5 Dia agonal (0. in. wide	10:1 (fixed) 300x600) agonal) 8")	0.697"~1.114" Manual, Zoom (17.7~28.3 mm) f:1.6~2.5	EFL 0.696 1.083 H' W' D"	Throw 3.7 5.7 Screee 2.0 2.67 40	(Dista 5.5 8.6 n Dime 3.0 4 60	nce to 9.2 14.3 snsions 5 6.67 100	Screen 11.0 17.2 6 8 120	n) in fe 13.8 21.5 7.5 10 150	et. 16.6 25.8 9 12 180	22.1 34.4 12 16	27.6
Nominal Panel Size 0.63" Dia Aperture: 0.504 Standard Lens LC-XB29N LC-XB29N LC-XB28 Resolution: XGA (1024x768) or Aspect Ratio: (3 High by 4 Wid Nominal Panel Size 0.79" Dia Aperture: 0.632 Standard Lens	in. wide T/W 1.38 2.15 SVGA (8 e by 5 Dia agonal (0. in. wide T/W	10:1 (fixed) 300x600) agonal) 8") Shift/Limits	0.697"~1.114" Manual, Zoom (17.7~28.3 mm) f:1.6~2.5 Lens Description	EFL 0.696 1.083 H' W' D" EFL	Throw 3.7 5.7 Scree 2.0 2.67 40 Throw	(Dista 5.5 8.6 3.0 4 60 (Dista	ensions 5 6.67 100	Screer 11.0 17.2	n) in fe 13.8 21.5 7.5 10 150 n) in fe	et. 16.6 25.8 9 12 180 et.	22.1 34.4 12 16 240	27.6 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 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.. 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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