

Most Models				Screen Dimensions.								
Resolution: XGA (1024x768) or SVGA (800x600)				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 0.79" Diagonal (0.8")				D"	40	60	100	120	150	180	240	300
Aperture: 0.632 in. wide												
Standard Lens	T/W	Shift/Limits	Lens Description	EFL	Throw (Distance to Screen) in feet.							
LC-XB30/28/26/22, LC-SB21	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
LC-XB25/20/15, LC-SB20	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	-

LC-XB23 & LC-SB22				Screen Dimensions.								
Resolution: XGA (1024x768) or SVGA (800x600)				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 0.6" Diagonal				D"	40	60	100	120	150	180	240	300
Aperture: 0.495 in. wide												
Standard Lens	T/W	Shift/Limits	Lens Description	EFL	Throw (Distance to Screen) in feet.							
LC-XB23, LC-SB22	1.79	10:1	0.886"~1.063" Manual, Zoom	0.886	4.8	7.2	11.9	14.3	17.9	21.5	28.6	35.8
	2.15	(fixed)	(22.5~27 mm) f:1.65~1.81	1.066	5.7	8.6	14.4	17.2	21.5	25.8	34.5	43.1

LC-XB27N				Screen Dimensions.								
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 0.7" Diagonal				D"	40	60	100	120	150	180	240	300
Aperture: 0.56 in. wide												
Standard Lens	T/W	Shift/Limits	Lens Description	EFL	Throw (Distance to Screen) in feet.							
LC-XB27N	1.24	6:1	0.697"~1.114" Manual, Zoom	0.696	3.3	5.0	8.3	9.9	12.4	14.9	19.9	24.9
	1.93	(fixed)	(17.7~28.3 mm) f:1.6~2.5	1.083	5.2	7.7	12.9	15.5	19.3	23.2	30.9	38.7

LC-XB24				Screen Dimensions.								
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 0.63" Diagonal				D"	40	60	100	120	150	180	240	300
Aperture: 0.504 in. wide												
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-XB40, LC-XB40N				Screen Dimensions.								
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 (Distance to Screen) in feet.							
LC-XB40, LC-XB40N	1.64	10:1	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-XB29N				Screen Dimensions.								
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 0.63" Diagonal				D"	40	60	100	120	150	180	240	300
Aperture: 0.504 in. wide												
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

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.



205 Westwood Ave, Long Branch, NJ 07740

Phone: 866-94 BOARDS (26273) / (732)-222-1511

Fax: (732)-222-7088 | E-mail: sales@touchboards.com