EIKI Lens Specs for Widescreen BRILLIANT LC-WB40N January 22, 2008.

Full Screen - 16:10

Resolution: WXGA (1280x800)
Aspect Ratio: (10 High by 16 Wide by 18.868 Diagonal)
Aperture: 0.6275 in. wide

	Screen Dimensions.					
H'	1.8	3.5	4.4	6.6	8.8	13.2
W'	2.8	5.7	7.1	10.6	14.15	21.2
D"	40	80	100	150	200	300

EIKI Part No.	Ref.	T/W	Shift/Limits	Standard Lens	EFL	Throw (Distance to Screen) in feet.					
LC-WB40N											
Standard Lens		1.18		0.756" ~ 1.189" Power, Zoom	0.74	3.3	6.7	8.3	12.5	16.7	25.0
		1.86		(19.2 ~ 30.2 mm) f:1.7 ~ 2.5	1.17	5.3	10.5	13.2	19.8	26.4	39.5

Example 1: Video Mode, 16:9 Source, Normal (default setting)	H'	1.6	3.2	4.0	6.0	8.0	11.9
No scaling.	W'	2.8	5.7	7.1	10.6	14.2	21.2
Projected Image: 1280x720 - full width - 40 black pixels top and bottom	D"	38.8	77.8	97.2	146.2	194.8	291.9
Example 2: Video Input, 4:3 Source, Normal (default) Setting	H'	1.8	3.5	4.4	6.6	8.8	13.2
Signal is scaled proportionatly to fit: maintains aspect ratio.	W'	2.4	4.7	5.9	8.8	11.7	17.6
Projected Image: 1067x800 - full height, 107 black pixels left & right	D"	36.0	70.0	88	132	176	264
Example 3: Computer Mode, XGA (4:3) Source, True (optional) Setting	H'	1.7	3.4	4.2	6.3	8.4	12.7
No scaling. (For Computer Input, XGA Source, Normal (default) Setting: see Example 2 (4:3).)	W'	2.3	4.5	5.6	8.4	11.3	16.9
Projected Image: 1024x768 - 128 black pixels left & right, 16 black pixels top & bottom	D"	34.6	67.2	84	127	169	253

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. The two sides of a ratio are cumulative, so the expression 7:-1 means that the bottom of the image starts 1/6'th of the image height above the imaginary line.

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 +/- 3.5%. Specifications are subject to change without notice.

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