

# D13WU-HS Lens Throw Ratios

The following table details the information required to calculate the lens throw ratios (LTR) for the D13WU-HS projectors.

Lens	Throw distance formula		Vertical/horizontal offset	Diagonal screen sizes	
	Standard (inches)	Metric (cm)		Standard (inches)	Metric (cm)
0.84-1.02:1 Zoom (140-114107-XX)	TDmin = 0.84 x W + 3.74 TDmax = 1.02 x W + 3.74	TDmin = 0.84 x W + 10 TDmax = 1.02 x W + 10	+111.6% /- 43.4% V +21.1% /- 35.3% H	50 to 500	127 to 1270
1.02-1.36:1 Zoom (140-115108-XX)	TDmin = 1.02 x W + 2.36 TDmax = 1.36 x W + 2.36	TDmin = 1.02 x W + 6 TDmax = 1.36 x W + 6	+110.4% /- 66.7% V +32.4% /- 46.4% H	50 to 500	127 to 1270
1.2-1.50:1 Zoom (140-109101-XX)	TDmin = 1.24 x W -5.08 TDmax = 1.55 x W -4.61	TDmin = 1.24 x W - 13 TDmax = 1.55 x W - 12	+120% /- 120% V +/- 50% H	50 to 500	127 to 1270
1.5-2.0:1 Zoom (140-110103-XX)	TDmin = 1.52 x W - 2.45 TDmax = 2.02 x W - 2.43	TDmin = 1.52 x W - 6 TDmax = 2.02 x W - 6	+120% /- 120% V +/- 50% H	50 to 500	127 to 1270
2.0-4.0:1 Zoom (140-111104-XX)	TDmin = 1.95 x W + 6.99 TDmax = 3.94 x W + 3.87	TDmin = 1.95 x W + 18 TDmax = 3.94 x W + 10	+120% /- 120% V +/- 50% H	50 to 500	127 to 1270
4.0-7.2:1 Zoom (140-116109-XX)	TDmin = 3.95 x W + 6.35 TDmax = 7.14 x W + 4.41	TDmin = 3.95 x W + 16 TDmax = 7.14 x W + 11	+120% /- 120% V +/- 50% H	50 to 500	127 to 1270

- Throw distance measured from the center of the front foot of the projector.
- All lenses are made of glass.
- Calculated throw distance (TD) values are subject to a +/- 5% tolerance for individual lens variation.
- Calculated vertical and horizontal offset values are subject to a +/- 7% centering tolerance.