

HS Series 2K WU lens throw ratios

The following table details the information required to calculate the lens throw ratios for the Christie HS Series 2K WU projectors.

Lens	Throw distance formula		Vertical and horizontal offset (%)	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
0.38:1 fixed (140-142108-XX)	TD = 0.38 x W - 0.65	TD = 0.38 x W - 1.65	+100%/-55% V	200 to 600	508 to 1524
			+4%/-28% H		
0.65-0.75:1 zoom (140-144100-XX)	TDmin = 0.66 x W + 3.39	TDmin = 0.66 x W + 9	+120% /- 120% V	50 to 500	127 to 1270
	TDmax = 0.77 x W + 3.39	TDmax = 0.77 x W + 9	+/- 50% H		
0.84-1.02:1 zoom (140-114107-XX)	TDmin = 0.84 x W + 3.74	TDmin = 0.84 x W + 10	+120% /- 21.9% V	50 to 500	127 to 1270
	TDmax = 1.02 x W + 3.74	TDmax = 1.02 x W + 10	+/- 50% H		
1.02-1.36:1 zoom (140-115108-XX)	TDmin = 1.02 x W + 2.36	TDmin = 1.02 x W + 6	+120% /- 21.9% V	50 to 500	127 to 1270
	TDmax = 1.36 x W + 2.36	TDmax = 1.36 x W + 6	+/- 50% H		
1.2-1.50:1 zoom (140-109101-XX)	TDmin = 1.24 x W - 5.08	TDmin = 1.24 x W - 13	+120% /- 120% V	50 to 500	127 to 1270
	TDmax = 1.55 x W - 4.61	TDmax = 1.55 x W - 12	+/- 50% H		
1.5-2.0:1 zoom (140-110103-XX)	TDmin = 1.52 x W - 2.45	TDmin = 1.52 x W - 6	+120% /- 120% V	50 to 500	127 to 1270
	TDmax = 2.02 x W - 2.43	TDmax = 2.02 x W - 6	+/- 50% H		

Lens	Throw distance formula		Vertical and horizontal offset (%)	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
2.0-4.0:1 zoom (140-111104-XX)	TDmin = 1.95 x W + 6.99	TDmin = 1.95 x W + 18	+120% /- 120% V	50 to 500	127 to 1270
	TDmax = 3.94 x W + 3.87	TDmax = 3.94 x W + 10	+/- 50% H		
4.0-7.2:1 zoom (140-116109-XX)	TDmin = 3.95 x W + 6.35	TDmin = 3.95 x W + 16	+120% /- 120% V	50 to 500	127 to 1270
	TDmax = 7.14 x W + 4.41	TDmax = 7.14 x W + 11	+/- 50% H		
7.2-10.8:1 zoom (140-145101-XX)	TDmin = 7.18 x W + 10.12	TDmin = 7.18 x W + 26	+120% /- 120% V	50 to 500	127 to 1270
	TDmax = 10.80 x W + 10.15	TDmax = 10.80 x W + 26	+/- 50% H		

- The 0.38:1 lens throw distance measured from the center of the side feet of the projector closest to the screen.
- For all other lenses, 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 offset values are subject to a +/- 7% centering tolerance.