DWU1612-HS/DWU2022-HS lens throw ratios

The following table details the information required to calculate the lens throw ratios for the Christie DWU1612-HS/DWU2022-HS 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 +4%/-28% H	200 to 600	508 to 1524
0.65-0.75:1 zoom (140-144100-XX)	TDmin = 0.66 x W + 3.39 TDmax = 0.77 x W + 3.39	TDmin = 0.66 x W + 9 TDmax = 0.77 x W + 9	+111/-104 V +48/-53 H	50 to 500	127 to 1270
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	+108.5% /- 74.5% V +29.7% /- 42.2% 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	+124.1% /- 98.5% V +39.9% /- 49.2% 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	+/- 140% 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	+/- 140% V +/- 50% H	50 to 500	127 to 1270

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	+/- 140% 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	+/- 140% V	50 to 500	127 to 1270
	TDmax = 7.14 x W + 4.41	TDmax = 7.14 x W + 11	+/- 50% H		

- 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.