

Christie DWX951-Q and DWX851-Q lens throw ratios

The following table details the information required to calculate the lens throw ratios for the Christie DWX951-Q and DWX851-Q projectors.

Lens	Throw distance formula		Vertical and horizontal offset	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
0.8-1.0:1 zoom (121-118101-XX)	TDmin = 0.82 x W + 2.70	TDmin = 0.82 x W + 6.87	+105% -50% V	50 to 600	127 to 1524
	TDmax = 1.02 x W + 2.83	TDmax = 1.02 x W + 7.18	±22% H		
1.2-1.8:1 zoom (121-119102-XX)	TDmin = 1.24 x W + 1.46	TDmin = 1.24 x W + 3.71	+135% -50% V	50 to 600	127 to 1524
	TDmax = 1.84 x W + 1.79	TDmax = 1.84 x W + 4.55	±22% H		
1.7-2.6:1 zoom—standard lens (121-120104-XX/121-134109-XX)	TDmin = 1.74 x W + 0.96	TDmin = 1.74 x W + 2.44	+135% -50% V	50 to 600	127 to 1524
	TDmax = 2.60 x W + 1.22	TDmax = 2.60 x W + 3.11	±22% H		
2.5-3.8:1 zoom (121-122106-XX)	TDmin = 2.55 x W + 1.15	TDmin = 2.55 x W + 2.91	+135% -50% V	50 to 600	127 to 1524
	TDmax = 3.88 x W + 1.28	TDmax = 3.88 x W + 3.26	±22% H		
3.7-5.9:1 zoom (121-123107-XX)	TDmin = 3.74 x W - 1.87	TDmin = 3.74 x W - 4.74	+135% -50% V	50 to 600	127 to 1524
	TDmax = 6.01 x W - 1.80	TDmax = 6.01 x W - 4.58	±22% H		
5.8-9.2:1 zoom (121-124108-XX)	TDmin = 5.73 x W + 11.39	TDmin = 5.73 x W + 28.92	+135% -50% V	50 to 600	127 to 1524
	TDmax = 9.14 x W + 12.48	TDmax = 9.14 x W + 31.69	±22% 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.