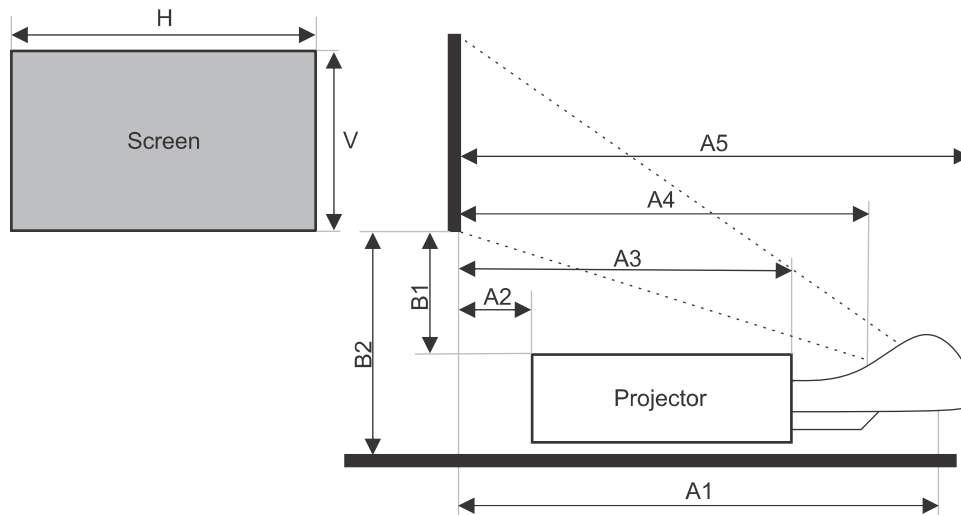


# Christie DHD1052-Q lens throw ratios

The following table details the information required to calculate the lens throw ratios for the Christie DHD1052-Q projectors.

Zoom lenses	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 = 0.78 x W + 2.69	TDmin = 0.78 x W + 6.84	+119.0 +/- 53.6 V	50 to 600	127 to 1524
	TDmax = 0.97 x W + 2.82	TDmax = 0.97 x W + 7.16	+23.3 +/- 22.0 H		
1.1-1.7:1 zoom (121-119102-XX)	TDmin = 1.18 x W + 1.46	TDmin = 1.18 x W + 3.71	+138.2 +/- 54.3 V	50 to 600	127 to 1524
	TDmax = 1.75 x W + 1.82	TDmax = 1.75 x W + 4.62	+23.2 +/- 22.2 H		
1.6-2.4:1 zoom—standard lens (121-121105-XX/121-134109-XX)	TDmin = 1.65 x W + 0.96	TDmin = 1.65 x W + 2.43	+138.2 +/- 54.6 V	50 to 600	127 to 1524
	TDmax = 2.47 x W + 1.22	TDmax = 2.47 x W + 3.11	+23.0 +/- 22.2 H		
2.4-3.6:1 zoom (121-122106-XX)	TDmin = 2.43 x W + 1.13	TDmin = 2.43 x W + 2.88	+138.2 +/- 55.2 V	50 to 600	127 to 1524
	TDmax = 3.69 x W + 1.19	TDmax = 3.69 x W + 3.02	+22.8 +/- 22.6 H		
3.5-5.6:1 zoom (121-123107-XX)	TDmin = 3.56 x W - 1.87	TDmin = 3.56 x W - 4.75	+136.7 +/- 53.8 V	50 to 600	127 to 1524
	TDmax = 5.72 x W - 1.81	TDmax = 5.72 x W - 4.59	+23.2 +/- 22.1 H		
5.5-8.8:1 zoom (121-124108-XX)	TDmin = 5.46 x W + 11.39	TDmin = 5.46 x W + 28.94	+136.3 +/- 56.3 V	50 to 600	127 to 1524
	TDmax = 8.70 x W + 12.48	TDmax = 8.70 x W + 31.70	+22.8 +/- 22.5 H		

Ultra short throw lens	Throw distance formula		Vertical and horizontal offset	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
0.38:1 fixed (121-127101-XX)	$A2 = 0.3062 \times \text{Diagonal} - 25.5855$	$A2 = 0.78 \times \text{Diagonal} - 64.99$	+12.4.0 +/- 14.3 V	100 to 350	254 to 889
	$B2 = 0.2081 \times \text{Diagonal} + 4.9764$	$B2 = 0.53 \times \text{Diagonal} + 12.64$	+12.4 +/- 11.4 H		



- H Horizontal width of the screen
- V Vertical width of the screen
- A1 Reflecting mirror surface to screen
- A2 Projector front end to screen
- A3 Projection window center to screen
- A5 Lens front end to screen
- B1 Projector top to bottom edge of screen
- B2 Projector bottom to bottom edge of screen

- 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.