Christie M 4K25 RGB lens throw ratios

The following table details the information required to calculate the lens throw ratios for the Christie M 4K25 RGB projectors.

Lens	Throw Distance Formula		Vertical and Horizontal Offset (%)	Optimal Screen Widths	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
Fixed—High brightness					
0.37:1 HD UST ILS1 (0.4:1 SXGA+) P/N: 118-131106-XX	TD = 0.3808 x W - 3.23	TD = 0.3808 x W - 8.2	+ 128%/- 0% V + 0%/- 73% H	186.7 to 587	474.2 to 1484
0.67:1 HD ILS1 (0.73:1 SXGA+) P/N: 118-100110-XX	TD = 0.7012 x W + 6.73	TD = 0.7012 x W + 17.1	+ 48%/- 32% V + 19%/- 8% H	54 to 577	137.2 to 1405.6
1.1:1 HD ILS1 (1.25:1 SXGA+) P/N: 118-100117-XX	TD = 1.1407 x W+ 7.79	TD = 1.1407 x W + 19.78	+ 134%/- 127% V + 71%/- 66% H	100 to 530	254 to 1346.2
Zoom—High brightness					
0.8-1.16:1 HD ILS1 (0.87-1.26:1 SXGA+) P/N: 118-130105-XX	TD = 0.8626 x W + 8.8	TD = 0.8626 x W + 22.35	+ 74%/- 73% H	85 to 522	215.9 to 1325.9
	TD = 1.2438 x W + 8.78	TD = 1.2438 x W + 22.31	+ 129%/- 128% V	59 to 362	149.9 to 919.5
1.16-1.49:1 HD ILS1 (1.25-1.6:1 SXGA+)	TD = 1.1584 x W + 7.83	TD = 1.1584 x W + 19.89	+ 73%/- 73% H	95 to 502	241.3 to 1275.1
	TD = 1.4948 x W + 7.87	TD = 1.4948 x W + 20	+ 133%/- 128% V	74 to 391	187.9 to 993.1

Lens	Throw Distance Formula		Vertical and Horizontal Offset (%)	Optimal Screen Widths	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
P/N: 118-100111-XX					
1.4-1.8:1 HD ILS1 (1.5-2.0:1 SXGA+) P/N: 118-100112-XX	TD = 1.3893 x W + 13.42	TD = 1.3893 x W + 34.08	+ 72%/- 72% H	109 to 672	276.9 to 1706.9
	TD = 1.8833 x W + 5.95	TD = 1.8833 x W + 15.12	+ 134%/- 127% V	85 to 522	215.9 to 1325.9
1.8-2.6:1 HD ILS1 (2.0-2.8:1 SXGA+) P/N: 118-100113-XX	TD = 1.8745 x W + 4.81	TD = 1.8745 x W + 12.21	+ 73%/- 73% H	85 to 522	215.9 to 1325.9
	TD = 2.5694 x W + 4.81	TD = 2.5694 x W + 12.22	+ 128%/- 127% V	59 to 362	149.9 to 919.5
2.6-4.1:1 HD ILS1 (2.8-4.5:1 SXGA+) P/N: 118-100114-XX	TD = 2.5048 x W + 16	TD = 2.5048 x W + 40.63	+ 73%/- 73% H	132 to 675	335.2 to 1714.5
	TD = 4.1140 x W + 15.54	TD = 4.1140 x W + 39.47	+ 133%/- 128% V	84 to 428	213.4 to 1087.1
4.1-6.9:1 HD ILS1 (4.5-7.5:1 SXGA+)* P/N: 118-100115-XX	TD = 4.0805 x W + 17.18	TD = 4.0805 x W + 43.64	+ 74%/- 74% H	111 to 764	281.9 to 1940.6
	TD = 6.8660 x W + 16.95	TD = 6.8660 x W + 43.05	+ 131%/- 128% V	66 to 454	167.6 to 1153.2
6.9-10.4:1 HD ILS1 (7.5-11.2:1 SXGA+)* P/N: 118-100116-XX	TD = 6.7375 x W + 23.63	TD = 6.7375 x W + 60.02	+ 74%/- 74% H	65 to 453	165.1 to 1150.6
	TD = 10.108 x W + 23.44	TD = 10.108 x W + 59.53	+ 130%/- 128% V	43 to 301	109.2 to 764.5
Zoom—Ultra high contrast					
1.28-1.87:1 HD ILS1 (1.2-1.75:1 2K) P/N: 163-165103-XX	TD = 1.2793 x W + 6.88	TD = 4.0805 x W + 17.48	TBD	236 to 984	600.0 to 2500.0
	TD = 1.8796 x W + 6.92	TD = 6.8660 x W + 17.57	TBD	197 to 981	500.0 to 2491.7
1.48-2.03:1 HD ILS1 (1.39-1.9:1 2K) P/N: 163-152109-XX	TD = 1.4906 x W + 8.11	TD = 1.4906 x W + 20.6	TBD	170 to 1345	431.7 to 3416.3
	TD = 2.0492 x W + 8.13	TD = 2.0492 x W + 20.65	TBD	124 to 984	315.8 to 2500.0
1.6-2.35:1 HD ILS1 (1.5-2.2:1 2K) P/N: 163-166104-XX	TD = 1.6082 x W + 7.62	TD = 6.7375 x W + 19.36	TBD	197 to 1444	500.0 to 3667.8
	TD = 2.3703 x W + 7.65	TD = 10.108 x W + 19.43	TBD	134 to 984	340.9 to 2500.0

Lens	Throw Distance Formula		Vertical and Horizontal Offset (%)	Optimal Screen Widths	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
1.87-2.56:1 HD ILS1 (1.75-2.4:1 2K) P/N: 163-153100-XX	TD = 1.8745 x W + 4.81	TD = 1.8745 x W + 12.21	+ 73%/- 69% H	85 to 522	215.9 to 1325.9
	TD = 2.5694 x W + 4.81	TD = 2.5694 x W + 12.22	+ 135%/- 128% V	59 to 362	149.9 to 919.5

* Requires a lens hood extension to use with this product. The 4.1-6.9:1 zoom lens requires a 100 mm lens hood extension (P/N: 163-168106-XX) and the 6.9-10.4:1 zoom lens requires a 360 mm lens hood extension (P/N: 163-167105-XX).

- Throw distances measured from the center of the front feet of the projector.
- The 0.37:1 lens throw distance measured from the center of the side feet 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.