

Korus Series lens throw ratios

The following table details the information required to calculate the lens throw ratios for the Christie Korus Series projectors—4K1000(A)-KS and 4K1400(A)-KS.

Lens	Throw distance formula		Vertical and horizontal offset (%)	Diagonal screen sizes	
	Imperial (In)	Metric (cm)		Imperial (In)	Metric (cm)
0.34 - 0.37:1 UST (140-164102-XX)	TDmin = 0.339 x W + 9.53	TDmin = 0.339 x W + 24.2	+ 102%/- 102% V	80 to 500	203 to 1270
	TDmax = 0.371 x W + 9.68	TDmax = 0.371 x W + 24.6	+ 48%/- 48% H		
0.5 - 0.65:1 zoom (140-166104-XX)	TDmin = 0.501 x W + 5.3	TDmin = 0.501 x W + 14.3	+ 102%/- 102% V	50 to 500	127 to 1270
	TDmax = 0.651 x W + 5.39	TDmax = 0.651 x W + 13.7	+ 48%/- 48% H		
0.78 - 0.90:1 zoom (140-144100-XX)	TDmin = 0.78 x W + 5.91	TDmin = 0.78 x W + 15	+ 102%/- 102% V	50 to 500	127 to 1270
	TDmax = 0.899 x W + 6.1	TDmax = 0.899 x W + 15.5	+ 48%/- 48% H		
0.90 - 1.30:1 zoom (140-159106-XX)	TDmin = 0.897 x W + 6.46	TDmin = 0.897 x W + 16.4	+ 102%/- 102% V	50 to 500	127 to 1270
	TDmax = 1.286 x W + 6.34	TDmax = 1.286 x W + 16.1	+ 48%/- 48% H		
1.25 - 2.0:1 zoom (140-165103-XX)	TDmin = 1.24 x W + 5.24	TDmin = 1.24 x W + 13.3	+ 102%/- 102% V	50 to 500	127 to 1270
	TDmax = 1.98 x W + 5.2	TDmax = 1.98 x W + 13.2	+ 48%/- 48% H		
1.8 - 2.4:1 zoom (140-110103-XX)	TDmin = 1.799 x W + 4.92	TDmin = 1.799 x W + 12.5	+ 120%/- 120% V	50 to 500	127 to 1270
	TDmax = 2.382 x W + 4.65	TDmax = 2.382 x W + 11.8	+ 50%/- 50% H		
2.4 - 4.8:1 zoom (140-111104-XX)	TDmin = 2.395 x W + 6.69	TDmin = 2.395 x W + 17	+ 120%/- 120% V	50 to 500	127 to 1270
	TDmax = 4.75 x W + 6.3	TDmax = 4.75 x W + 16	+ 50%/- 50% H		

Lens	Throw distance formula		Vertical and horizontal offset (%)	Diagonal screen sizes	
	Imperial (In)	Metric (cm)		Imperial (In)	Metric (cm)
4.8 - 8.64:1 zoom (140-116109-XX)	TDmin = $4.848 \times W + 8.66$ TDmax = $8.682 \times W + 8.27$	TDmin = $4.848 \times W + 22$ TDmax = $8.682 \times W + 21$	+ 120%/- 120% V + 50%/- 50% H	50 to 500	127 to 1270

- The 0.34 - 0.37:1 ultra short throw lens has a 10% brightness loss.
- Throw distance measured from the center of the front foot of the projector.
- 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.