

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 = $0.339 \times W + 9.53$	TDmin = $0.339 \times W + 24.2$	+ 102%/- 102% V	80 to 500	203 to 1270
	TDmax = $0.371 \times W + 9.68$	TDmax = $0.371 \times W + 24.6$	+ 48%/- 48% H		
0.5 - 0.65:1 zoom (140-166104-XX)	TDmin = $0.501 \times W + 5.3$	TDmin = $0.501 \times W + 14.3$	+ 102%/- 102% V	50 to 500	127 to 1270
	TDmax = $0.651 \times W + 5.39$	TDmax = $0.651 \times W + 13.7$	+ 48% /- 48% H		
0.78 - 0.90:1 zoom (140-144100-XX)	TDmin = $0.78 \times W + 5.91$	TDmin = $0.78 \times W + 15$	+ 102%/- 102% V	50 to 500	127 to 1270
	TDmax = $0.899 \times W + 6.1$	TDmax = $0.899 \times W + 15.5$	+ 48% /- 48% H		
0.90 - 1.30:1 zoom (140-159106-XX)	TDmin = $0.897 \times W + 6.46$	TDmin = $0.897 \times W + 16.4$	+ 102%/- 102% V	50 to 500	127 to 1270
	TDmax = $1.286 \times W + 6.34$	TDmax = $1.286 \times W + 16.1$	+ 48%/- 48% H		
1.25 - 2.0:1 zoom (140-165103-XX)	TDmin = $1.24 \times W + 5.24$	TDmin = $1.24 \times W + 13.3$	+ 102%/- 102% V	50 to 500	127 to 1270
	TDmax = $1.98 \times W + 5.2$	TDmax = $1.98 \times W + 13.2$	+ 48%/- 48% H		
1.8 - 2.4:1 zoom (140-110103-XX)	TDmin = $1.799 \times W + 4.92$	TDmin = $1.799 \times W + 12.5$	+ 120%/- 120% V	50 to 500	127 to 1270
	TDmax = $2.382 \times W + 4.65$	TDmax = $2.382 \times W + 11.8$	+ 50%/- 50% H		
2.4 - 4.8:1 zoom (140-111104-XX)	TDmin = $2.395 \times W + 6.69$	TDmin = $2.395 \times W + 17$	+ 120%/- 120% V	50 to 500	127 to 1270
	TDmax = $4.75 \times W + 6.3$	TDmax = $4.75 \times W + 16$	+ 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 = $4.848 \times W + 8.66$	TDmin = $4.848 \times W + 22$	+ 120%/- 120% V	50 to 500	127 to 1270
	TDmax = $8.682 \times W + 8.27$	TDmax = $8.682 \times W + 21$	+ 50%/- 50% H		

- 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.