

GS Series Lens Throw Ratios

The table on the following pages detail the information required to calculate the lens throw ratios for the GS Series projector.

Lens	Throw Distance Formula		Vertical/ horizontal offset (%)	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
0.36:1 fixed (140-133108-XX)	TD = 0.340 x W + 3.30	TD = 0.340 x W + 8.38	Fixed	120 to 350	304.8 to 889
0.65-0.75:1 zoom (140-143109-XX)	TDmin = 0.669 x W - 0.15	TDmin = 0.669 x W - 0.39	+100% /- 100% V	50 to 500	127 to 1270
	TDmax = 0.773 x W - 0.15	TDmax = 0.773 x W - 0.39	+30% /- 30% H		
0.75-0.95:1 zoom (140-119102-XX)	TDmin = 0.761 x W - 1.05	TDmin = 0.761 x W - 2.66	+100% /- 100% V	50 to 500	127 to 1270
	TDmax = 0.966 x W - 1.07	TDmax = 0.966 x W - 2.71	+30% /- 30% H		
0.95-1.22:1 zoom (140-101103-XX)	TDmin = 0.966 x W - 1.18	TDmin = 0.966 x W - 3.00	+100% /- 100% V	50 to 500	127 to 1270
	TDmax = 1.240 x W - 1.12	TDmax = 1.240 x W - 2.84	+30% /- 30% H		
1.22-1.53:1 zoom (140-131106-XX)	TDmin = 1.236 x W - 1.63	TDmin = 1.236 x W - 4.14	+100% /- 100% V	50 to 500	127 to 1270
	TDmax = 1.543 x W - 1.58	TDmax = 1.543 x W - 4.01	+30% /- 30% H		
1.52-2.89:1 zoom (140-102104-XX)	TDmin = 1.546 x W - 2.34	TDmin = 1.546 x W - 5.94	+100% /- 100% V	50 to 500	127 to 1270
	TDmax = 2.948 x W - 2.04	TDmax = 2.948 x W - 5.18	+30% /- 30% H		
2.90-5.50:1 zoom (140-107109-XX)	TDmin = 2.822 x W + 5.37	TDmin = 2.822 x W + 13.63	+100% /- 100% V	50 to 500	127 to 1270
	TDmax = 5.362 x W + 4.62	TDmax = 5.362 x W + 11.74	+30% /- 30% 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.