

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 (DWU880-GS, DWU880A-GS, DWU1100-GS, DWU1100A-GS, DWU1400-GS, and DWU1400A-GS) 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)	$TD = 0.340 \times W + 3.30$	$TD = 0.340 \times W + 8.38$	Fixed	120 to 350	304.8 to 889
0.37-0.4:1 (900-300383-XX)	$TD_{min} = 0.382 \times W - 2.04$	$TD_{min} = 0.382 \times W - 5.19$	Table: + 100% /- 100% V + 20% /- 20% H	200 to 600	508 to 1524
	$TD_{max} = 0.413 \times W - 2.05$	$TD_{max} = 0.413 \times W - 5.22$	Ceiling: + 100% /- 100% V + 20% /- 20% H		
0.65-0.75:1 zoom (140-143109-XX)	$TD_{min} = 0.669 \times W + 4.65$	$TD_{min} = 0.669 \times W + 11.82$	+100% /- 100% V	50 to 500	127 to 1270
	$TD_{max} = 0.773 \times W + 4.64$	$TD_{max} = 0.773 \times W + 11.79$	+30% /- 30% H		
0.75-0.95:1 zoom (140-119102-XX)	$TD_{min} = 0.761 \times W + 3.56$	$TD_{min} = 0.761 \times W + 9.05$	+100% /- 100% V	50 to 500	127 to 1270
	$TD_{max} = 0.966 \times W + 3.54$	$TD_{max} = 0.966 \times W + 9$	+30% /- 30% H		
0.95-1.22:1 zoom (140-101103-XX)	$TD_{min} = 0.966 \times W + 3.13$	$TD_{min} = 0.966 \times W + 7.94$	+100% /- 100% V	50 to 500	127 to 1270
	$TD_{max} = 1.240 \times W + 3.19$	$TD_{max} = 1.240 \times W + 8.1$	+30% /- 30% H		
1.22-1.52:1 zoom	$TD_{min} = 1.236 \times W + 3.44$	$TD_{min} = 1.236 \times W + 8.73$	+100% /- 100% V	50 to 500	127 to 1270

Lens	Throw Distance Formula		Vertical/ horizontal offset (%)	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
(140-131106-XX)	$TD_{max} = 1.543 \times W + 3.49$	$TD_{max} = 1.543 \times W + 8.86$	+30% /- 30% H		
1.52-2.89:1 zoom (140-102104-XX)	$TD_{min} = 1.546 \times W + 2.75$	$TD_{min} = 1.546 \times W + 6.98$	+100% /- 100% V	50 to 500	127 to 1270
	$TD_{max} = 2.948 \times W + 3.05$	$TD_{max} = 2.948 \times W + 7.74$	+30% /- 30% H		
2.90-5.50:1 zoom (140-107109-XX)	$TD_{min} = 2.822 \times W + 11.54$	$TD_{min} = 2.822 \times W + 29.32$	+100% /- 100% V	50 to 500	127 to 1270
	$TD_{max} = 5.362 \times W + 10.8$	$TD_{max} = 5.362 \times W + 27.43$	+30% /- 30% H		

- Throw distance is measured from the center of the front foot of the projector except for the following lenses:
 - The 0.37-0.4:1 lens throw distance is measured from the vertex of the lens.
 - The 0.36:1 lens throw distance is measured from the shell of the lens.
- 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.