

Christie DWU700-GS and 850-GS Lens Throw Ratios

The table on the following pages detail the information required to calculate the lens throw ratios for the Christie DWU700-GS and 850-GS projectors.

Lens	Throw distance formula		Vertical/ horizontal offset (%)	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
0.36 (120in) ultra short throw (140-133108-XX)	$TD_{min} = 0.340 \times W + 3.297$	$TD_{min} = 0.340 \times W + 8.375$	Fixed	120 to 350	305 to 889
0.65-0.75:1 zoom (140-143109-XX)	$TD_{min} = 0.669 \times W + 4.17$	$TD_{min} = 0.669 \times W + 10.58$	+/- 100% V	50 to 300	127 to 762
	$TD_{max} = 0.773 \times W + 3.94$	$TD_{max} = 0.773 \times W + 10$	+/- 30% H		
0.75-0.95:1 zoom (140-119102-XX)	$TD_{min} = 0.761 \times W + 3.52$	$TD_{min} = 0.761 \times W + 8.93$	+/- 100% V	50 to 300	127 to 762
	$TD_{max} = 0.966 \times W + 3.50$	$TD_{max} = 0.966 \times W + 8.88$	+/- 30% H		
0.95-1.22:1 zoom (140-101103-XX)	$TD_{min} = 0.966 \times W + 3.14$	$TD_{min} = 0.966 \times W + 7.97$	+/- 100% V	50 to 300	127 to 762
	$TD_{max} = 1.240 \times W + 3.20$	$TD_{max} = 1.240 \times W + 8.13$	+/- 30% H		
1.22-1.52:1 zoom (140-131106-XX)	$TD_{min} = 1.236 \times W + 3.45$	$TD_{min} = 1.236 \times W + 8.76$	+/- 100% V	50 to 300	127 to 762
	$TD_{max} = 1.543 \times W + 3.50$	$TD_{max} = 1.543 \times W + 8.89$	+/- 30% H		
1.52-2.92:1 zoom (140-102104-XX)	$TD_{min} = 1.546 \times W + 2.75$	$TD_{min} = 1.546 \times W + 6.99$	+/- 100% V	50 to 300	127 to 762
	$TD_{max} = 2.948 \times W + 3.05$	$TD_{max} = 2.948 \times W + 7.75$	+/- 30% H		

Lens	Throw distance formula		Vertical/ horizontal offset (%)	Diagonal screen sizes	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
2.90-5.50:1 zoom (140-107109-XX)	TDmin = 2.822 x W + 11.44	TDmin = 2.822 x W + 29.07	+/- 100% V	50 to 300	127 to 762
	TDmax = 5.362 x W + 10.70	TDmax = 5.362 x W + 27.18	+/- 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.