

HS Series 2K lens throw ratios

The following table details the information required to calculate the lens throw ratios for the Christie HS Series 2K (DWU23-HS, DWU23A-HS, DWU19-HS, DWU19-HS, DWU15-HS, and DWU15A-HS) projectors.

| Lens | Throw distance formula | | Vertical and | Diagonal screen sizes | |
|-------------------------------------|--------------------------------|-----------------------------|--|-----------------------|--------------|
| | Imperial (in) | Metric (cm) | horizontal offset (%) | Imperial (in) | Metric (cm) |
| 0.38:1 fixed (140-142108-XX) | TDmin =0.38 x W+0.65 | TDmin =0.38 x W+1.65 | Table mount: + 100%/- 50% V + 25%/- 4% H | 200 to 600 | 508 to 1,524 |
| | | | Ceiling mount: + 100%/- 50% V + 4%/- 25% H | | |
| 0.65-0.75:1 zoom (140-144100-XX) | TDmin =0.66 x W+3.39 | TDmin =0.66 x W + 9 | + 65%/- 65% V | 50 to 500 | 127 to 1,270 |
| | TDmax =0.77 x W+3.39 | TDmax =0.77 x W + 9 | + 30%/- 30% H | | |
| 0.84-1.02:1 zoom (140-114107-XX) | TDmin = $0.87 \times W + 0.19$ | TDmin = 0.87 x W + 1 | + 27%/- 27% V | 50 to 500 | 127 to 1,270 |
| | $TDmax = 1.05 \times W + 0.27$ | $TDmax = 1.05 \times W + 1$ | + 11%/- 11% H | | |
| 1.02-1.36:1 zoom (140-115108-XX) | TDmin = 1.03 x W - 0.36 | TDmin = 1.03 x W - 1 | + 27%/- 27% V | 50 to 500 | 127 to 1,270 |
| | TDmax = 1.37 x W - 0.24 | $TDmax = 1.37 \times W - 1$ | + 11%/- 11% H | | |
| 1.2-1.50:1 zoom (140-109101-XX) | TDmin = 1.24 x W -0.68 | TDmin = 1.24 x W - 2 | + 120%/- 120% V | 50 to 500 | 127 to 1,270 |
| | $TDmax = 1.55 \times W - 0.21$ | Tdmax = 1.55 x W - 1 | + 50%/- 50% H | | |
| 1.5-2.0:1 zoom | TDmin = 1.52 x W + 1.35 | TDmin = 1.52 x W + 3 | + 120%/- 120% V | 50 to 500 | 127 to 1,270 |



| Lens | Throw distance formula | | Vertical and | Diagonal screen sizes | |
|------------------------------------|--------------------------------|-----------------------------|-----------------------|-----------------------|--------------|
| | Imperial (in) | Metric (cm) | horizontal offset (%) | Imperial (in) | Metric (cm) |
| (140-110103-XX) | $TDmax = 2.02 \times W + 1.37$ | $TDmax = 2.02 \times W + 3$ | + 50%/- 50% H | | |
| 2.0-4.0:1 zoom (140-111104-XX) | TDmin = 1.95 x W + 12.19 | TDmin = 1.95 x W + 31 | + 120%/- 120% V | 50 to 500 | 127 to 1,270 |
| | TDmax =3.94 x W + 9.07 | TDmax =3.94 x W + 23 | + 50%/- 50% H | | |
| 4.0-7.2:1 zoom (140-116109-XX) | TDmin = 3.95 x W + 12.45 | TDmin = 3.95 x W + 32 | + 120%/- 120% V | 50 to 500 | 127 to 1,270 |
| | TDmax =7.14 x W + 10.51 | TDmax =7.14 x W + 27 | + 50%/- 50% H | | |
| 7.2-10.8:1 zoom (140-115101-XX) | TDmin =7.18 x W+10.12 | TDmin =7.18 x W + 26 | + 120%/- 120% V | 80 to 500 | 203 to 1,270 |
| | TDmax =10.80 x W+10.15 | TDmax =10.80 x W + 26 | + 50%/- 50% H | | |

- The 0.38:1 lens throw distance measured from the center of the side feet of the projector closest to the screen.
- For all other lenses, 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.