## HS Series 4K7-HS/4K10-HS lens throw ratios

The following table details the information required to calculate the lens throw ratios for the HS Series $4 \mathrm{~K} 7-\mathrm{HS} / 4 \mathrm{~K} 10-\mathrm{HS}$ projectors.

| Lens | Throw distance formula Imperial (in) | Metric (cm) | Vertical and horizontal offset (\%) | Diagonal scre Imperial (in) | n sizes <br> Metric (cm) |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1.20-1.73:1 zoom <br> (140-136101-XX) | TDmin $=1.221 \times \mathrm{W}+2.29$ | TDmin $=1.221 \times \mathrm{W}+5.84$ | +/-140\% V | 50 to 500 | 127 to 1270 |
|  | TDmax $=1.774 \times \mathrm{W}+2.32$ | TDmax $=1.774 \times \mathrm{W}+5.90$ | $+/-60 \% \mathrm{H}$ |  |  |
| 1.7-2.12:1 zoom <br> (140-109101-XX) | TDmin $=1.753 \times \mathrm{W}+1.70$ | TDmin $=1.753 \times \mathrm{W}+4.32$ | +/-140\% V | 50 to 500 | 127 to 1270 |
|  | TDmax $=2.186 \times \mathrm{W}+2.16$ | TDmax $=2.186 \mathrm{x}$ W + 5.49 | $+/-60 \% \mathrm{H}$ |  |  |
| 2.12-2.83:1 zoom (140-110103-01) | TDmin $=2.153 \times \mathrm{W}+3.74$ | TDmin $=2.153 \times \mathrm{W}+9.49$ | +/-140\% V | 50 to 500 | 127 to 1270 |
|  | TDmax $=2.862 \times \mathrm{W}+3.76$ | TDmax $=2.862 \times \mathrm{W}+9.55$ | $+/-60 \% \mathrm{H}$ |  |  |
| 2.83-5.66:1 zoom (140-111104-XX) | TDmin $=2.750 \times \mathrm{W}+14.59$ | TDmin $=2.750 \times \mathrm{W}+37.06$ | +/-140\% V | 50 to 500 | 127 to 1270 |
|  | TDmax $=5.566 \times \mathrm{W}+11.48$ | TDmax $=5.566 \times \mathrm{W}+29.16$ | $+/-60 \% \mathrm{H}$ |  |  |
| $\begin{aligned} & 5.66-10.18: 1 \text { zoom } \\ & (140-116109-\mathrm{XX}) \end{aligned}$ | TDmin $=5.586 \times \mathrm{W}+14.74$ | TDmin $=5.586 \times \mathrm{W}+37.45$ | +/-140\% V | 50 to 500 | 127 to 1270 |
|  | TDmax $=10.095 \times \mathrm{W}+12.80$ | TDmax $=10.095 \times \mathrm{W}+32.50$ | $+/-60 \% \mathrm{H}$ |  |  |

- 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.

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[^0]:    HS Series $4 \mathrm{~K} 7-\mathrm{HS} / 4 \mathrm{~K} 10-\mathrm{HS}$ Lens Throw Ratio
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