

J Series 2.0, 2.4, and 3.0 kW lens throw ratios

The following tables detail the information required to calculate the lens throw ratios for the J Series 2.0, 2.4, and 3.0 kW projectors.

HD lens information	Throw distance formula		Vertical and horizontal offset (%)	Min/max screen widths	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
0.40:1 SX+/0.37:1 HD (118-131106-XX)	$T D = 0.3808 \times W + 1.529$	$T D = 0.3808 \times W + 0.039$	+/- 30% +/-5%	185.2	470.4
0.73:1 SX+/0.67:1 HD fixed (118-100110-XX)	$T D = 0.703 \times W + 4.566$	$T D = 0.703 \times W + 11.60$	+/- 35% V +/- 12% H	55.1 to 553.7	140 to 1406.4
0.8-1.16:1 HD (118-130105-XX)	$T D = 0.863 \times W + 8.07$	$0.863 \times W + 0.20$	+165% / -110% V +72% / -72% H	39.2 to 222.1	99.5 to 564
	$T D = 1.244 \times W + 8.10$	$1.244 \times W + 0.21$	+163% / -154% V +76% / -72% H	27.6 to 155.1	70 to 394
1.2:1 SX+/1.1:1 HD fixed (118-100117-XX)	$T D = 1.138 \times W + 5.551$	$T D = 1.137 \times W + 14.10$	+/- 120% V +/- 42% H	98.9 to 513.8	251.1 to 1305.1
1.25-1.6:1 SX+/1.16-1.49:1 HD zoom (118-100111-XX)	$T D = 1.159 \times W + 5.512$	$T D = 1.159 \times W + 14.00$	+/- 102% V	97.2 to 504.9	246.8 to 1282.5
	$T D = 1.495 \times W + 5.629$	$T D = 1.495 \times W + 14.30$	+/- 40% H	75.3 to 391.4	191.2 to 994.1
1.5-2.0:1 SX+/1.4-1.8:1 HD zoom	$T D = 1.392 \times W + 1.917$	$T D = 1.392 \times W + 4.870$	+/- 120% V	111.7 to 677.6	283.9 to 1721

HD lens information	Throw distance formula		Vertical and horizontal offset (%)	Min/max screen widths	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
(118-100112-XX)	TD = 1.884 x W + 2.071	TD = 1.884 x W + 5.260	+/- 42% H	82.5 to 500	209.5 to 1270.9
2.0-2.8:1 SX+/1.8-2.6:1 HD zoom (118-100113-XX)	TD = 1.876 x W + 2.145	TD = 1.876 x W + 5.450	+/- 120% V	82.8 to 502.4	210.3 to 1276.2
	TD = 2.579 x W + 0.956	TD = 2.579 x W + 2.430	+/- 42% H	60.7 to 366.1	154.2 to 929.8
2.8-4.5:1 SX+/2.6-4.1:1 HD zoom (118-100114-XX)	TD = 2.517 x W + 13.74	TD = 2.517 x W + 34.90	+/- 120% V	136.9 to 698.5	347.7 to 1774.2
	TD = 4.119 x W + 13.23	TD = 4.119 x W + 33.60	+/- 42% H	83.8 to 426.9	212.8 to 1084.4
4.5-7.1:1 SX+/4.1-6.9:1 HD zoom (118-100115-XX)	TD = 4.083 x W + 14.84	TD = 4.083 x W + 37.70	+/- 120% V	112.1 to 767.7	284.7 to 1950
	TD = 6.867 x W + 14.64	TD = 6.867 x W + 37.20	+/- 42% H	66.7 to 456.5	169.3 to 1159.6
7.5-11.2:1 SX+/6.9-10.4:1 HD zoom (118-100116-XX)	TD = 6.739 x W + 21.49	TD = 6.739 x W + 54.60	+/- 120% V	66.9 to 464.2	170 to 1179
	TD = 10.111 x W + 21.06	TD = 10.111 x W + 53.50	+/- 42% H	44.6 to 309.4	113.4 to 785.9

SX+ lens information	Throw distance formula		Vertical and horizontal offset (%)	Min/max screen widths	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
0.40:1 SX+/0.37:1 HD (118-131106-XX)	TD = 0.4125 x W + 1.529	TD = 0.4125 x W + 0.039	+/- 18% +/-5%	170.9	434.2
0.73:1 SX+/0.67:1 HD fixed (118-100110-XX)	TD = 0.760 x W + 4.614	TD = 0.760 x W 11.72	+/- 23% V +/- 13% H	50.9 to 511.9	129.3 to 1300.3
0.8-1.16:1 HD (118-130105-XX)	TD = 0.9342 x W + 4.99	TD = 0.9342 x W + 0.13	(+)129% / -92% V +99% / -64% H	36.6 to 208.3	93 to 529
	TD = 1.3473 x W + 4.99	TD = 1.3473 x W + 0.13	+128% / -92% V +99% / -64% H	25.6 to 144.1	65 to 366

SX+ lens information	Throw distance formula		Vertical and horizontal offset (%)	Min/max screen widths	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
1.2:1 SX+/1.1:1 HD fixed (118-100117-XX)	TD = 1.233 x W + 5.590	TD = 1.233 x W + 14.20	+/- 100% V +/- 50% H	91.3 to 474.5	231.9 to 1205.3
1.25-1.6:1 SX+/1.16-1.49:1 HD zoom (118-100111-XX)	TD = 1.255 x W + 5.551	TD = 1.255 x W + 14.10	+/- 73% V	89.7 to 446.1	227.8 to 1184
	TD = 1.618 x W + 5.629	TD = 1.618 x W + 14.30	+/- 45% H	69.5 to 361.4	176.5 to 918.0
1.5-2.0:1 SX+/1.4-1.8:1 HD zoom (118-100112-XX)	TD = 1.508 x W + 1.905	TD = 1.508 x W + 4.840	+/- 100% V	103.2 to 625.4	262.1 to 1588.5
	TD = 2.040 x W + 2.043	TD = 2.040 x W + 5.190	+/- 50% H	76.2 to 462.2	193.6 to 1174.0
2.0-2.8:1 SX+/1.8-2.6:1 HD zoom (118-100113-XX)	TD = 2.033 x W + 2.129	TD = 2.033 x W + 5.410	+/- 100% V	76.4 to 463.8	194.1 to 1178.1
	TD = 2.793 x W + 0.929	TD = 2.793 x W + 2.360	+/- 50% H	56.1 to 337.9	142.4 to 858.4
2.8-4.5:1 SX+/2.6-4.1:1 HD zoom (118-100114-XX)	TD = 2.727 x W + 13.66	TD = 2.727 x W + 34.70	+/- 100% V	126.4 to 644.8	321.0 to 1637.7
	TD = 4.458 x W + 13.18	TD = 4.458 x W + 33.50	+/- 50% H	77.4 to 394.4	196.6 to 1001.9
4.5-7.1:1 SX+/4.1-6.9:1 HD zoom (118-100115-XX)	TD = 4.422 x W + 14.84	TD = 4.422 x W + 37.70	+/- 100% V	103.5 to 708.9	262.8 to 1800.5
	TD = 7.432 x W + 14.64	TD = 7.432 x W + 37.20	+/- 50% H	61.6 to 421.8	156.5 to 1071.4
7.5-11.2:1 SX+/6.9-10.4:1 HD zoom (118-100116-XX)	TD = 7.300 x W + 21.45	TD = 7.300 x W + 54.50	+/- 100% V	61.8 to 428.5	156.9 to 1088.5
	TD = 10.947 x W + 21.1	TD = 10.947 x W + 53.60	+/- 50% H	41.2 to 285.8	104.7 to 725.9

WUXGA lens information	Throw distance formula		Vertical and horizontal offset (%)	Min/max screen widths	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
0.40:1 SX+/0.37:1 HD (118-131106-XX)	TD = 0.3808 x W + 1.529	TD = 0.3808 x W + 0.039	+/- 30% +/-5%	190.3	483.4
0.73:1 SX+/0.67:1 HD fixed	TD = 0.703 x W + 4.566	TD = 0.703 x W + 11.60	+/- 22% V	55.1 to 553.7	140 to 1406.4

WUXGA lens information	Throw distance formula		Vertical and horizontal offset (%)	Min/max screen widths	
	Imperial (in)	Metric (cm)		Imperial (in)	Metric (cm)
(118-100110-XX)			+/- 6% H		
0.8-1.16:1 HD (118-130105-XX)	TD = 0.863 x W + 8.07	0.863 x W + 0.20	+165% / -110% V +72% / -72% H	39.2 to 222.1	99.5 to 564
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1.25-1.6:1 SX+/1.16-1.49:1 HD zoom (118-100111-XX)	TD = 1.159 x W + 5.512	TD = 1.159 x W + 14.00	+/- 82% V	97.2 to 504.9	246.8 to 1282.5
	TD = 1.495 x W + 5.629	TD = 1.495 x W + 14.30	+/- 38% H	75.3 to 391.4	191.2 to 994.1
1.5-2.0:1 SX+/1.4-1.8:1 HD zoom (118-100112-XX)	TD = 1.392 x W + 1.917	TD = 1.392 x W + 4.870	+/- 112% V	111.7 to 677.6	283.9 to 1721
	TD = 1.884 x W + 2.071	TD = 1.884 x W + 5.260	+/- 54% H	82.5 to 500	209.5 to 1270.9
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	TD = 2.579 x W + 0.956	TD = 2.579 x W + 2.430	+/- 54% H	60.7 to 366.1	154.2 to 929.8
2.8-4.5:1 SX+/2.6-4.1:1 HD zoom (118-100114-XX)	TD = 2.517 x W + 13.74	TD = 2.517 x W + 34.90	+/- 112% V	136.9 to 698.5	347.7 to 1774.2
	TD = 4.119 x W + 13.23	TD = 4.119 x W + 33.60	+/- 54% H	83.8 to 426.9	212.8 to 1084.4
4.5-7.1:1 SX+/4.1-6.9:1 HD zoom (118-100115-XX)	TD = 4.083 x W + 14.84	TD = 4.083 x W + 37.70	+/- 112% V	112.1 to 767.7	284.7 to 1950
	TD = 6.867 x W + 14.64	TD = 6.867 x W + 37.20	+/- 54% H	66.7 to 456.5	169.3 to 1159.6
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	TD = 10.111 x W + 21.06	TD = 10.111 x W + 53.50	+/- 54% H	44.6 to 309.4	113.4 to 785.9

- 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.