

LX1750 Lens Throw Ratios Technical Reference Information

INTRODUCTION

The tables on the following pages detail the information required to calculate the Lens Throw Ratios for the LX1750 projectors.

LENS	THROW DISTANCE FORMULA		VERTICAL/HORIZONTAL	MAX/MIN SCREEN WIDTH SIZES	
	STANDARD (INCHES)	METRIC (CM)	OFFSET	STANDARD (INCHES)	METRIC (CM)
0.8:1	TD = 0.82 x W + 4.02"	TD = 0.82 x W + 10.20cm	On Axis V	40" to 600"	100 to 1524 cm
(103-135100-01)	>>Manual Focus		On Axis H		
1.1-1.5:1 Zoom	TDmin = 1.20 x W + 4.41"	TDmin = 1.20 x W + 11.20cm	±100% V	40" to 600"	100 to 1524 cm
(103-103101-01)	TDmax = 1.56 x W + 3.23"	TDmax = 1.56 x W + 8.20cm	±18% H		
1.5-2.0:1 Zoom	TDmin = 1.58 x W + 0.71"	TDmin = 1.58 x W + 1.80cm	±100% V	40" to 600"	100 to 1524 cm
(38-809094-xx)	TDmax = 2.07 x W + 1.34"	TDmax = 2.07 x W + 3.40cm	±18% H		
2.0-2.6:1 Zoom	TDmin = 2.07 x W - 2.56"	TDmin = 2.07 x W - 6.50cm	±100% V	40" to 600"	100 to 1524 cm
(38-809039-xx)	TDmax = 2.69 x W - 2.36"	TDmax = 2.69 x W - 6.00cm	±18% H		
2.6-3.5:1 Zoom	TDmin = 2.65 x W + 0.60"	TDmin = 2.65 x W + 1.50cm	±100% V	40" to 600"	100 to 1524 cm
(38-809044-xx)	TDmax = 3.57 x W + 1.10"	TDmax = 3.57 x W + 2.80cm	±18% H		
3.4-4.5:1 Zoom	TDmin = 3.42 x W + 7.87"	TDmin = 3.42 x W + 20.00cm	±100% V	40" to 600"	100 to 1524 cm
(103-129103-01)	TDmax = 4.42 x W + 7.87"	TDmax = 4.42 x W + 20.00cm	±18% H		
4.6-6.0:1 Zoom	TDmin = 4.33 x W + 15.67"	TDmin = 4.33 x W + 39.80cm	±100% V	40" to 600"	100 to 1524 cm
(103-130105-01)	TDmax = 6.73 x W + 13.74"	TDmax = 6.73 x W + 34.90cm	±18% H		
6.3-9.0:1 Zoom	TDmin = 6.05 x W + 28.78"	TDmin = 6.05 x W + 73.10cm	±100% V	40" to 600"	100 to 1524 cm
(38-809070-xx)	TDmax = 8.89 x W + 28.50"	TDmax = 8.89 x W + 72.40cm	±18% H		

Note: The 6.3 - 9.0:1 zoom and focus can only be adjusted manually.

Throw distance measured from the front bezel 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.