

# HD405 Lens Throw Ratios Technical Reference Information

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## INTRODUCTION

The table on the following page details the information required to calculate the Throw Ratios for the HD405 projector.

HD405 LENS THROW RATIOS						
Lens	Throw Distance Formula		Vertical Offset	Horizontal Offset	Diagonal Screen Size	
	Standard (Inches)	Metric (cm)			Standard (Inches)	Metric (cm)
<b>0.8:1 Fixed</b> <b>(38-809082-02)</b>	TD = 0.779 x W + 1.53	TD = 0.779 x W + 3.9	±28% V	±7% H	20-114	51-289
<b>1.2:1 Fixed</b> <b>(38-809083-02)</b>	TD = 1.08 x W + 16.67	TD = 1.08 x W + 42.3	±120% V	±78% H	31-476	79-1208
<b>1.3-1.7:1 Zoom</b> <b>(38-809084-02)</b>	TD = 1.23 x W + 1.77	TD = 1.23 x W + 4.5	±120% V	±78% H	27-439	69-1114
	TD = 1.61 x W + 1.74	TD = 1.61 x W + 4.4				
<b>1.7-2.5:1 Zoom</b> <b>(38-809085-02)</b>	TD = 1.595 x W - 3.1	TD = 1.595 x W - 7.9	±120% V	±78% H	43-339	110-862
	TD = 2.322 x W - 3.39	TD = 2.322 x W - 8.6				
<b>2.5-4.0:1 Zoom</b> <b>(38-809086-02)</b>	TD = 2.29 x W + 5.29	TD = 2.29 x W + 13.4	±120% V	±78% H	29-453	73-1150
	TD = 3.76 x W + 2.44	TD = 3.76 x W + 6.2				
<b>4.0-7.0:1 Zoom</b> <b>(38-809087-02)</b>	TD = 3.60 x W + 15.53	TD = 3.60 x W + 39.4	±120% V	±78% H	37-393	95-973
	TD = 6.26 x W + 17.33	TD = 6.26 x W + 44.0				

**NOTE: 1)** Throw distance measured from the center of the front foot of the projector. **2)** Calculated Throw Distance values are subject to a +/- 5% lens tolerance. **3)** Calculated Vertical and Horizontal Offsets are subject to a +/- 7% centering tolerance.