

L102W Installation Guide Ceiling and Desktop Mounted

Rev 1.0

Contents

Product Description, Lens Specs, Notes	Pg 1
Formulas	Pg 2
Diagrams & Distance Charts	Pg 3
Cabinet Dimensions	Pg 4
Cabinet Dimensions and Input Panel	Pg 5



Product Description

Type:	1-chip DLP projector	0.45" DLP		
Brightness:	1000 lumens			
Resolution:	1280 x 800			
Dimensions:	9.38" (W) x 2.05" (H) x 6.98" (D)	Weight:	3.1 lbs	
Power Consumption:	110W (max)	BTU's:	469 BTU/hour	

Lens Specifications

Throw Ratio:	1.4 (for 100" diagonal)	Focal Length:	13.92mm
Offset Angle:	13.8° (for 100" diagonal)	F/#:	1.5
Screen Sizes:	17" - 100" diagonal (16:10)	Manual Focus	

Notes

- For screen sizes not indicated on the projection tables, use the formulas on the following page. If the figures on the tables do not match the results of formulas, use the figures in the table.
- All calculations are based on a 16:10 aspect ratio.
- Distances are in inches, for millimeters multiply by 25.4.
- Distances may vary $\pm 5\%$.

L102W Installation Guide

Ceiling and Desktop Mounted

Rev 1.0

Formulas

The Projection Formulas use the image width for calculation. For proper projection placement, determine the image width for the desired screen size. Use the Screen Formulas below to calculate all screen dimensions. Plug in the width for “W” in the Projection Formulas.

Refer to the diagrams and charts below for popular screen sizes:

Definitions:

- W = Image Width
- H = Image Height (size)
- B = Vertical distance between lens center and screen center
- C = Throw distance
- D = Vertical distance between lens center and screen top
(screen bottom for desktop application)

16:10 Screen Formulas:

- $W = H \times 16/10$
- $H = W \times 10/16$
- Screen Diagonal = $W \times 18.868/16$

Projection Formulas:

- $B = 0.34W$
- $C = 1.432W - 1.966$
- $D = 0.033W$
- $\alpha = \tan^{-1} (B/C)$

Distance Chart for popular 16:10 screens

Screen Size (16:10)			B	C	D	α
Diagonal	Width(W)	Height (H)				
inches	inches	inches	inches	inches	inches	degree
18	15	9	5	20	0.5	13.8
31	26	16	9	35	0.9	13.8
40	34	21	12	47	1.1	13.8
60	51	32	17	71	1.7	13.8
80	68	43	23	95	2.2	13.8
99	84	53	29	118	2.8	13.8

Note: For screen sizes not indicated on the projection tables, use the formulas on above

L102W Installation Guide

Ceiling and Desktop Mounted

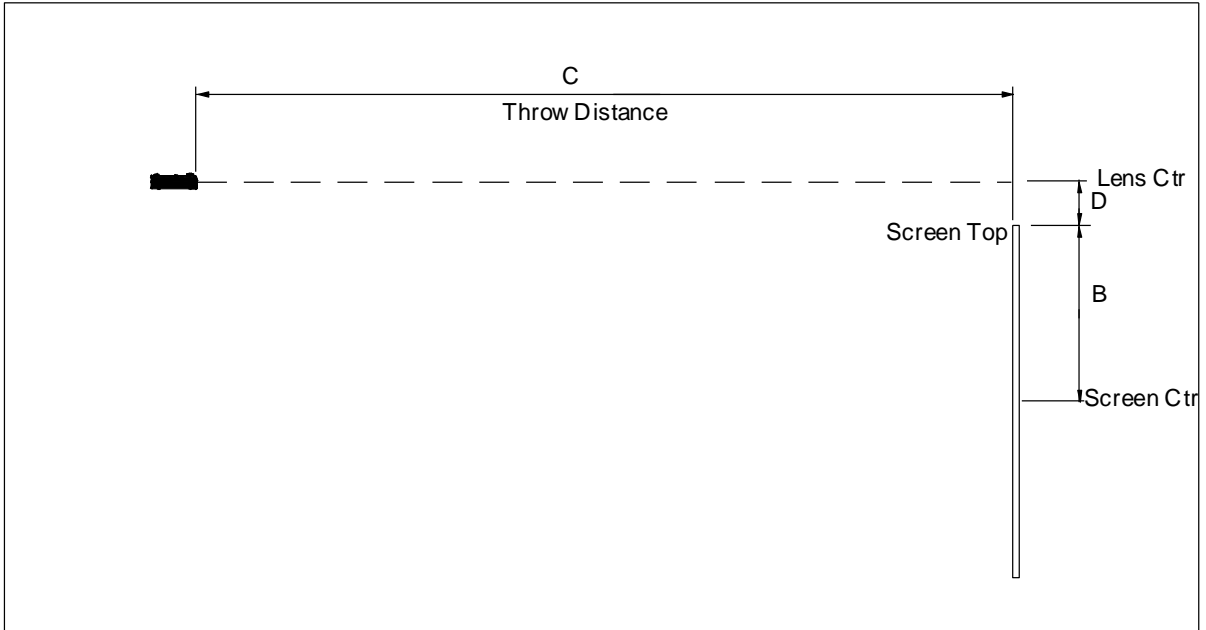
Rev 1.0

Diagrams and Distance Charts

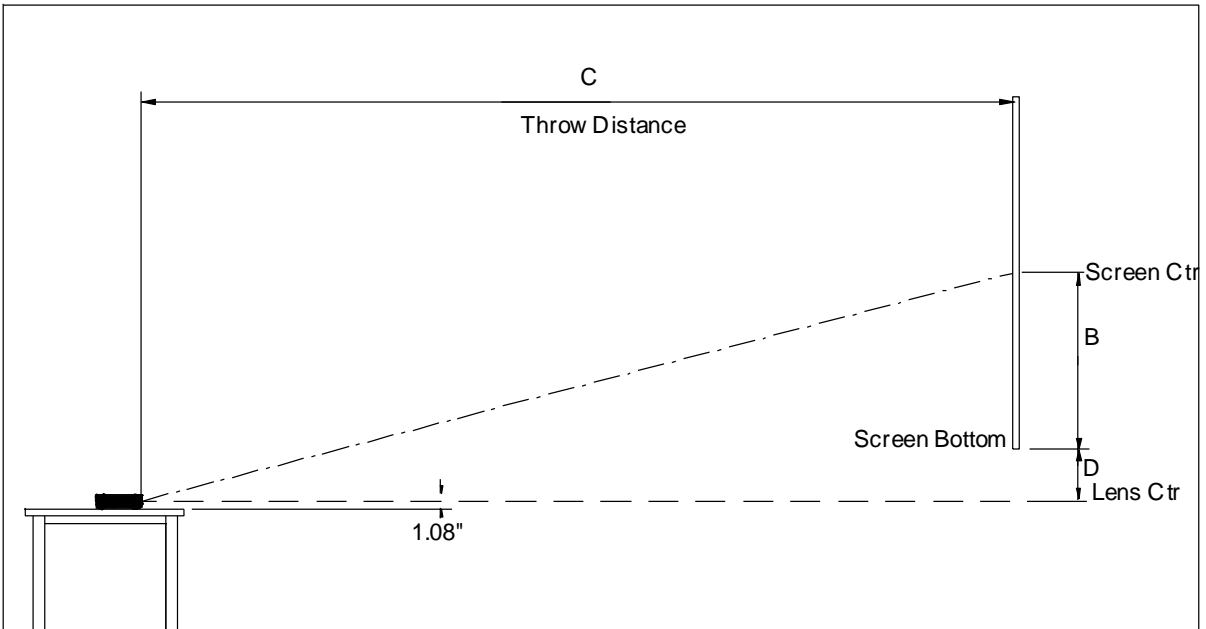
The following shows the proper relative positions of the projector and screen. Refer to the table to determine the position of installation.

Distances are in inches. For millimeters multiply by 25.4.

Ceiling Mounted



Desktop

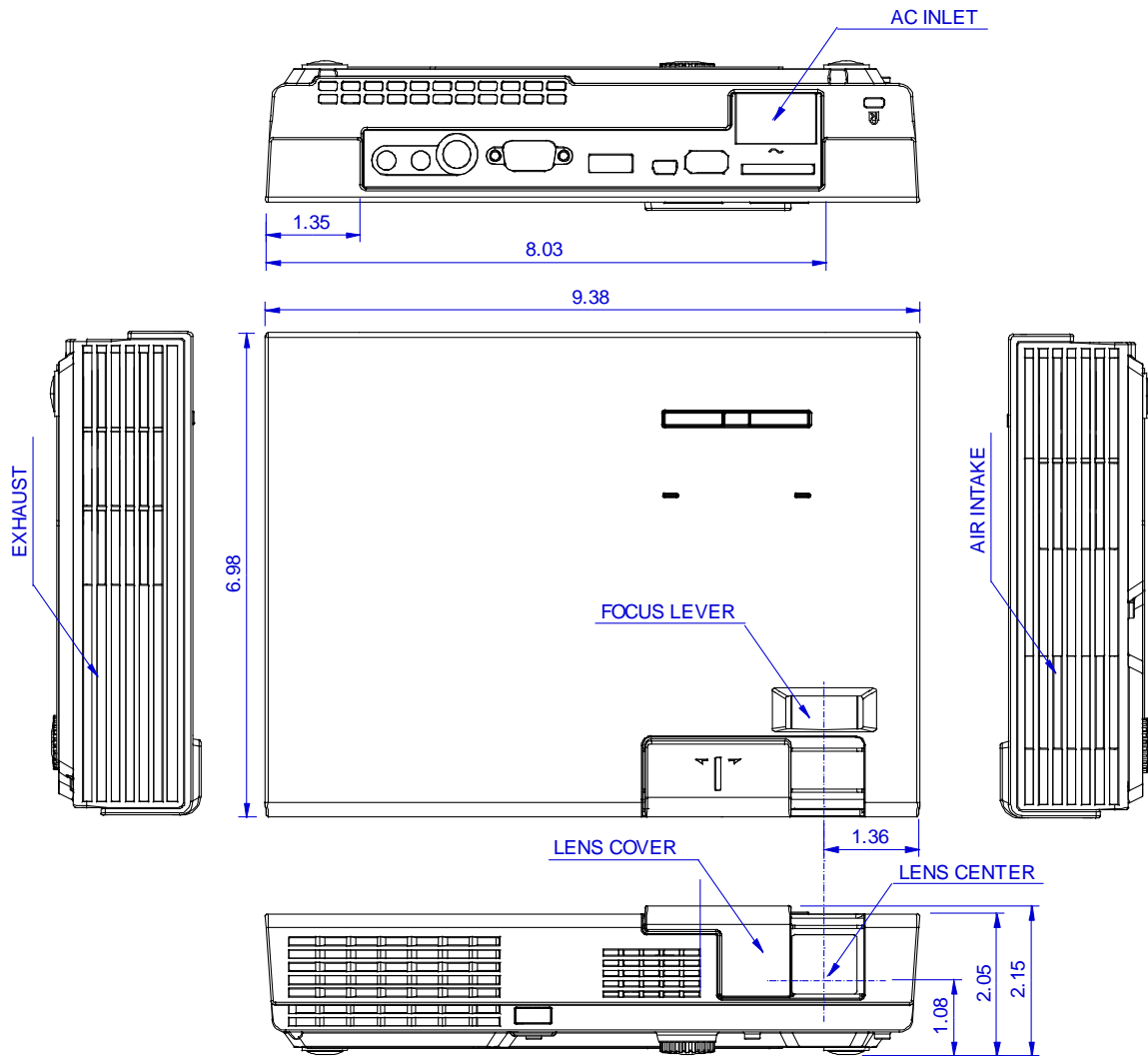


L102W Installation Guide

Ceiling and Desktop Mounted

Cabinet Dimensions

The following drawings show the cabinet dimensions.
Dimensions are in inches. For millimeters multiply by 25.4.

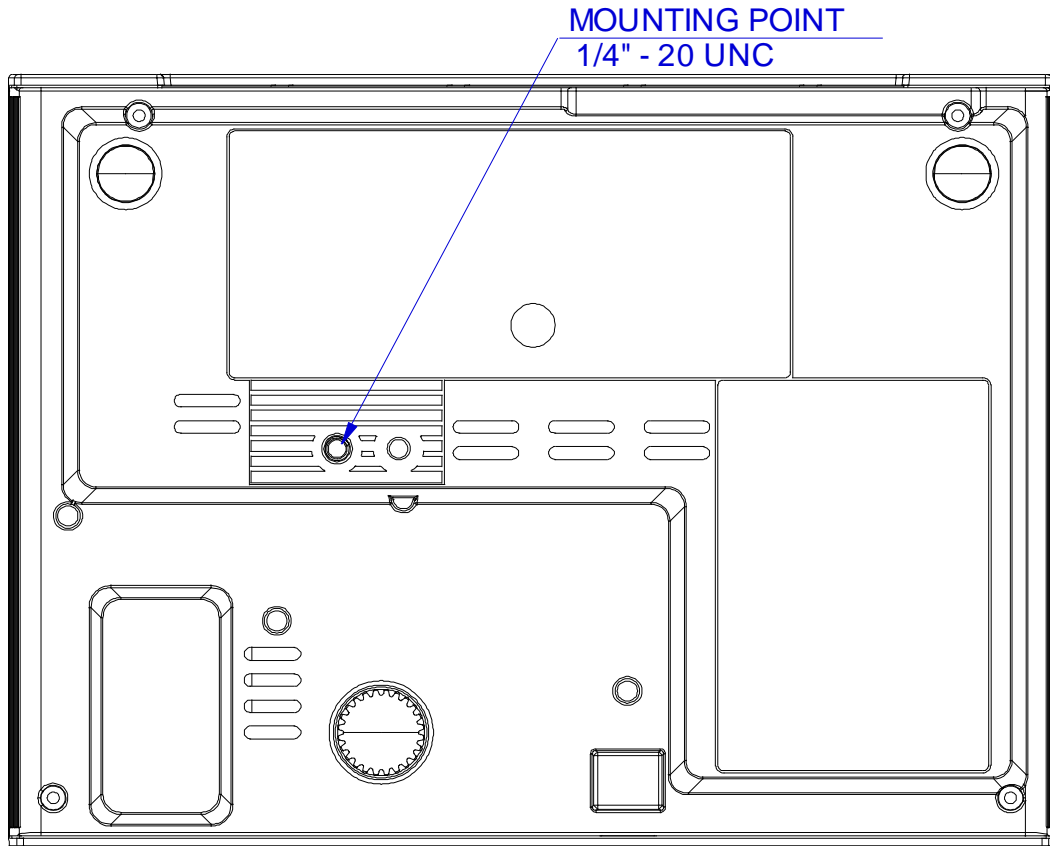


L102W Installation Guide

Ceiling and Desktop Mounted

Cabinet Dimensions cont.

The following drawings show the ceiling mount dimensions.
Dimensions are in inches. For millimeters multiply by 25.4.



Input Panel

