

MultiSync® LT140 Installation Data

Desktop and Ceiling Mount

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Notes

- For Screen Sizes of 25 to 300 inches not indicated on the projection tables, use the formulas below.
- Set the projection distance based on the width of the screen.
- If the figures on the tables do not match the figures in the formulas, use the figures in the table.
- All dimensions are in inches. Multiply by 25.4 for millimeters.
- Distances may vary +/- 5%.

Formulas

Units: Inches

$$A = C / \cos \alpha$$

$$B = 3.7H / 25.4$$

$$C \text{ (WIDE)} = (2.0099 \times H) - 1.9927$$

$$C \text{ (TELE)} = (2.4119 \times H) - 2.0365$$

$$D = E/2$$

$$E = H / 4 \times 3$$

$$\alpha = \tan^{-1} ((H \times 0.375) + B) / C$$

$$H = \text{Screen Diagonal (4:3)} \times 4 / 5$$

$$H = \text{Screen Width}$$

A = Distance between lens center and screen center

B = Vertical distance between lens center and screen bottom (screen top for ceiling mount)

C = Horizontal throw distance between screen surface and projector lens

D = Vertical distance between screen center and screen bottom (screen top for ceiling mount)

E = Screen Height

α = Offset Angle of image path center line with reference to desktop or ceiling

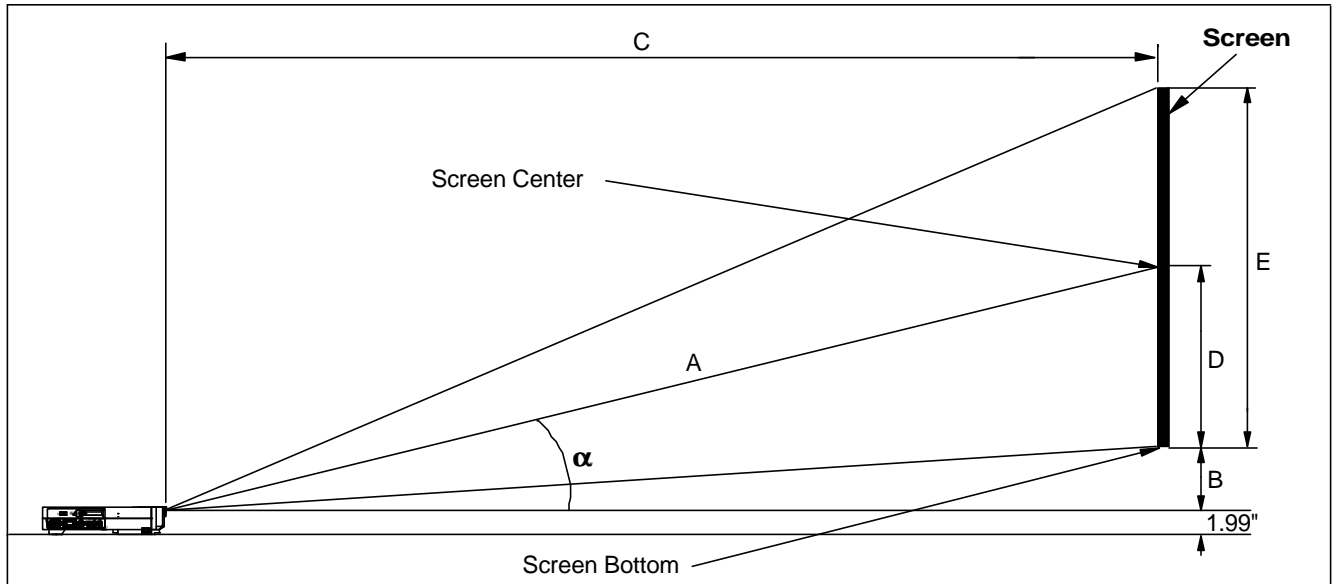
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Projection Distance and Screen Size for Desktop

The following diagram shows the relationship between projector position and the screen.

Desktop



Distance Chart

Screen Size			A	B	C	α
Diagonal	Width (H)	Height (E)	wide - tele		wide - tele	wide - tele
40"	32"	24"	64.4" - 77.0"	4.7"	62.2" - 75.2"	15.0° - 12.5°
60"	48"	36"	97.7" - 116.5"	7.0"	94.5" - 113.8"	14.8° - 12.4°
67"	53.6"	40.2"	109.3" - 130.2"	7.8"	105.7" - 127.2"	14.8° - 12.4°
72"	57.6"	43.2"	117.7" - 140.2"	8.4"	113.8" - 136.9"	14.8° - 12.4°
84"	67.2"	50.4"	137.6" - 163.7"	9.8"	133.1" - 160.0"	14.7° - 12.3°
90"	72"	54"	147.5" - 175.6"	10.5"	142.7" - 171.6"	14.7° - 12.3°
100"	80"	60"	164.1" - 195.4"	11.7"	158.7" - 190.9"	14.7° - 12.3°
120"	96"	72"	197.3" - 234.9"	14.0"	190.9" - 229.5"	14.7° - 12.3°
150"	120"	90"	247.4" - 294.1"	17.5"	239.4" - 287.4"	14.6° - 12.3°
180"	144"	108"	297.0" - 353.3"	21.0"	287.4" - 345.3"	14.6° - 12.2°
210"	168"	126"	346.9" - 412.5"	24.5"	335.7" - 403.2"	14.6° - 12.2°
240"	192"	144"	396.7" - 471.6"	28.0"	383.9" - 461.0"	14.6° - 12.2°
270"	216"	162"	446.5" - 530.9"	31.5"	432.1" - 518.9"	14.6° - 12.2°
300"	240"	180"	496.3" - No Tele	35.0"	480.3" - No Tele	14.6° - No Tele

Note:

For screen sizes of 25 to 300 inches not indicated on the projection tables, use the formulas on page 1.

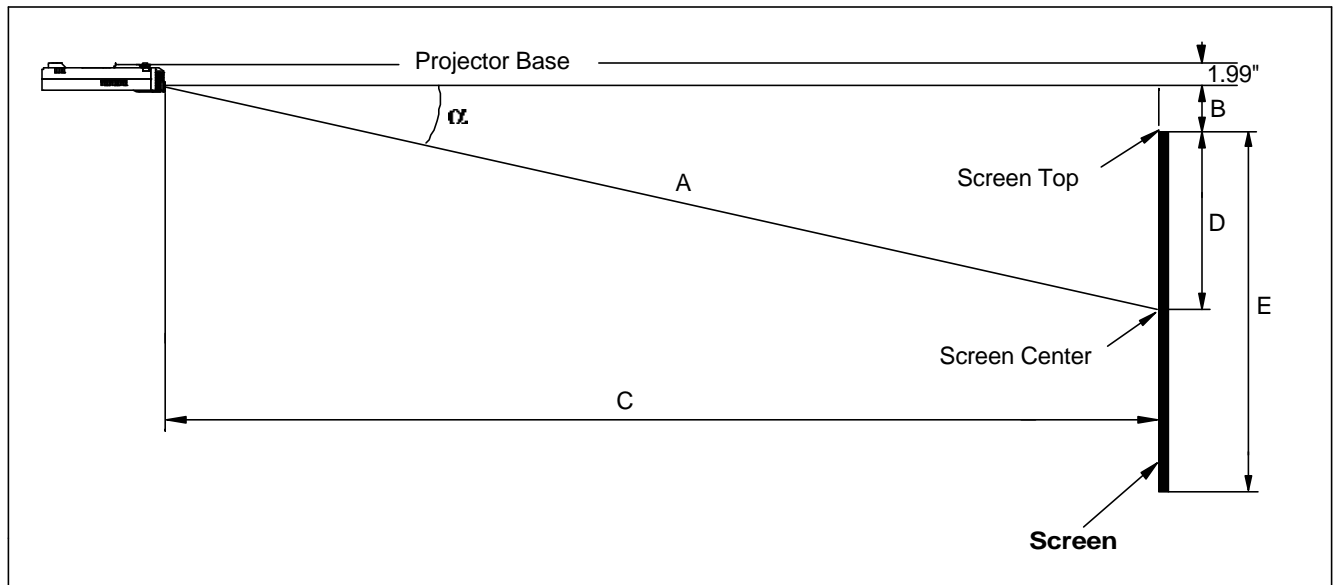
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Desktop and Ceiling Mount

Projection Distance and Screen Size for Ceiling Mount

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

Ceiling Mount



Distance Chart

Screen Size			A	B	C	α
Diagonal	Width (H)	Height (E)	wide - tele		wide - tele	wide - tele
40"	32"	24"	64.4" - 77.0"	4.7"	62.2" - 75.2"	15.0° - 12.5°
60"	48"	36"	97.7" - 116.5"	7.0"	94.5" - 113.8"	14.8° - 12.4°
67"	53.6"	40.2"	109.3" - 130.2"	7.8"	105.7" - 127.2"	14.8° - 12.4°
72"	57.6"	43.2"	117.7" - 140.2"	8.4"	113.8" - 136.9"	14.8° - 12.4°
84"	67.2"	50.4"	137.6" - 163.7"	9.8"	133.1" - 160.0"	14.7° - 12.3°
90"	72"	54"	147.5" - 175.6"	10.5"	142.7" - 171.6"	14.7° - 12.3°
100"	80"	60"	164.1" - 195.4"	11.7"	158.7" - 190.9"	14.7° - 12.3°
120"	96"	72"	197.3" - 234.9"	14.0"	190.9" - 229.5"	14.7° - 12.3°
150"	120"	90"	247.4" - 294.1"	17.5"	239.4" - 287.4"	14.6° - 12.3°
180"	144"	108"	297.0" - 353.3"	21.0"	287.4" - 345.3"	14.6° - 12.2°
210"	168"	126"	346.9" - 412.5"	24.5"	335.7" - 403.2"	14.6° - 12.2°
240"	192"	144"	396.7" - 471.6"	28.0"	383.9" - 461.0"	14.6° - 12.2°
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Note:

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Cabinet Dimensions

The following drawings show the cabinet dimensions for the MultiSync LT140. Dimensions are in inches. For millimeters multiply by 25.4.

