with Standard Zoom Lens

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NEC

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Product Description

Туре:	3 panel, 1.3" p-Si TFT w/MLA LCD projector	Dimensions:	11.1"(W) x 4.8"(H) x 14.9"(D)
Native Resolution:	1024 x 768	Weight:	13.3 lbs
Brightness:	3000 ANSI Lumens (2600 for MT1055)	Manual Focu	s/Manual Zoom

F/#:

Focal Length: 49.3 - 59.3mm

1.8 – 2.2

Std Lens Specifications

Throw Ratio:	1.8 – 2.2 : 1 (approx)
Offset Angle:	9.8 - 10.5(Wide)/8.2 - 8.6(Tele)
Screen Sizes:	30" – 300" Diagonal

Notes

- For screen sizes not indicated on the projection tables, use the formulas below.
- If the figures on the tables do not match the results of formulas, use the figures in the table.
- The ceiling must be strong enough to support the LCD projector and the installation must be in accordance with any local building codes.
- All calculations are based on 4:3 aspect ratio.
- Distances are in inches, for millimeters multiply by 25.4.
- Distances may vary ±5%.

Formulas

Units: Inches (for millimeters multiply final number by 25.4)

Definitions:

- H = Horizontal Screen Width (4:3)
- **V** = Vertical Screen Height (4:3)
- 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)
- α = Throw Angle

Projection Formulas:

B = 0.3193H **C** (wide) = 1.8588H - 3.171 **C** (tele) = 2.2299H - 2.710 **D** = 0.0557H α (wide) = tan⁻¹ (B/C(wide)) α (tele) = tan⁻¹ (B/C(tele))

Screen Formulas (4:3):

H = Screen Diagonal x 4/5
V = Screen Diagonal x 3/5
Screen Diagonal = H x 5/4

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Page 1

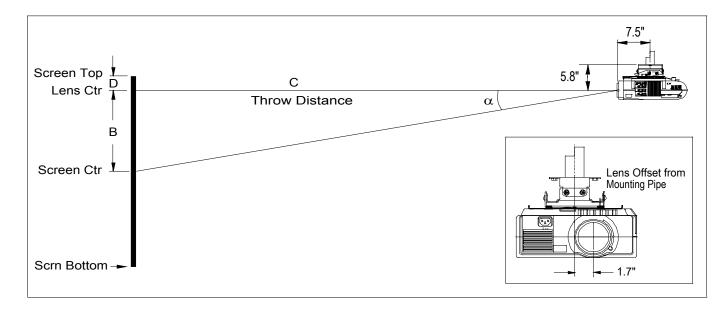
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EC MT1055/1056 Installation Data

with Standard Zoom Lens

Projection Distance and Screen Size for Ceiling Mount The following shows the proper relative position of the projector and screen. Refer to the table for installation data. Distances are in inches. For millimeters multiply by 25.4.

Ceiling Mount Installation



Distance Chart

	Screen Size		B C		D	α	
Diagonal	Width	Height		wide - tele		wide - tele	
40"	32"	24"	10.2"	56.3" - 68.6"	1.8"	10.3° - 8.5°	
60"	48"	36"	15.3"	86.1" - 104.3"	2.7"	10.1° - 8.4°	
67"	53.6"	40.2"	17.1"	96.5" - 116.8" 3.0"		10.1° - 8.3°	
72"	57.6"	43.2"	18.4"	103.9" - 125.7" 3.2"		10.0° - 8.3°	
84"	67.2"	50.4"	21.5"	121.7" - 147.1"	3.7"	10.0° - 8.3°	
90"	72"	54"	23.0"	130.7" - 157.8" 4.0"		10.0° - 8.3°	
100"	80"	60"	25.5"	145.5" - 175.7" 4.5"		10.0° - 8.3°	
120"	96"	72"	30.6"	175.3" - 211.4" 5.4"		9.9° - 8.3°	
150"	120"	90"	38.3"	219.9" - 264.9" 6.7"		9.9° - 8.2°	
180"	144"	108"	46.0"	264.5" - 318.4"	8.0"	9.9° - 8.2°	
210"	168"	126"	53.6"	309.1" - 371.9" 9.4"		9.9° - 8.2°	
240"	192"	144"	61.3"	353.7" - 425.4"	10.7"	9.8° - 8.2°	
270"	216"	162"	69.0"	398.3" - 479.0"	12.0"	9.8° - 8.2°	
300"	240"	180"	76.6"	443.0" - 532.5"	13.4"	9.8° - 8.2°	

Note: For screen sizes not indicated on the projection tables, use the formulas on page 1.

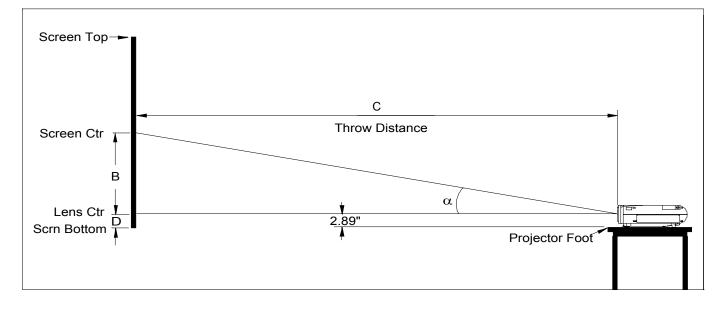
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E(MT1055/1056 Installation Data

with Standard Zoom Lens

Projection Distance and Screen Size for Desktop The following diagram shows the relationship between projector position and the screen. Distances are in inches. For millimeters multiply by 25.4.

Desktop Setup



Distance Chart

Screen Size		В	С	D	α		
Diagonal	Width	Height		wide - tele		wide - tele	
40"	32"	24"	10.2"	56.3" - 68.6" 1.8"		10.3° - 8.5°	
60"	48"	36"	15.3"	86.1" - 104.3" 2.7" 1		10.1° - 8.4°	
67"	53.6"	40.2"	17.1"	96.5" - 116.8"	3.0"	10.1° - 8.3°	
72"	57.6"	43.2"	18.4"	103.9" - 125.7"	103.9" - 125.7" 3.2"		
84"	67.2"	50.4"	21.5"	121.7" - 147.1" 3.7"		10.0° - 8.3°	
90"	72"	54"	23.0"	130.7" - 157.8" 4.0"		10.0° - 8.3°	
100"	80"	60"	25.5"	145.5" - 175.7" 4.5"		10.0° - 8.3°	
120"	96"	72"	30.6"	175.3" - 211.4" 5.4"		9.9° - 8.3°	
150"	120"	90"	38.3"	219.9" - 264.9" 6.7"		9.9° - 8.2°	
180"	144"	108"	46.0"	264.5" - 318.4" 8.0"		9.9° - 8.2°	
210"	168"	126"	53.6"	309.1" - 371.9" 9.4"		9.9° - 8.2°	
240"	192"	144"	61.3"	353.7" - 425.4"	10.7"	9.8° - 8.2°	
270"	216"	162"	69.0"	398.3" - 479.0"	12.0"	9.8° - 8.2°	
300"	240"	180"	76.6"	443.0" - 532.5"	13.4"	9.8° - 8.2°	

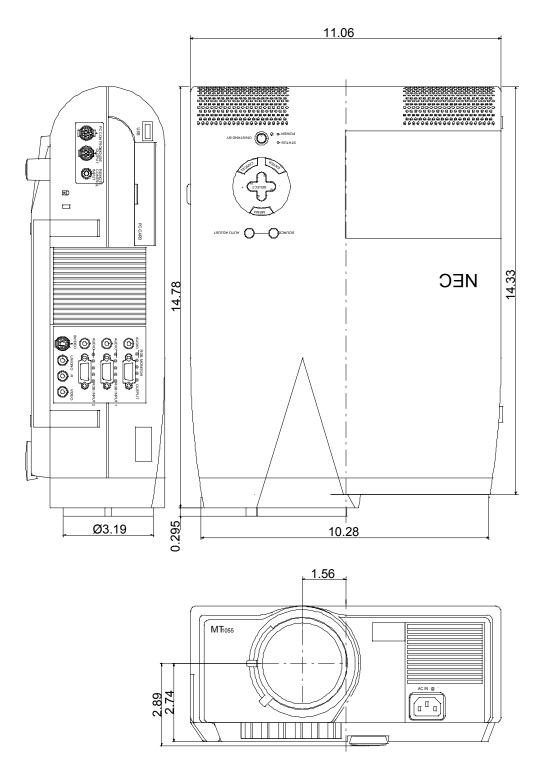
Note: For screen sizes not indicated on the projection tables, use the formulas on page 1.

with Standard Zoom Lens

Cabinet Dimensions

VEC

The following diagrams show the cabinet dimensions for the MT1055/1056. Dimensions are in inches. For millimeters multiply by 25.4.

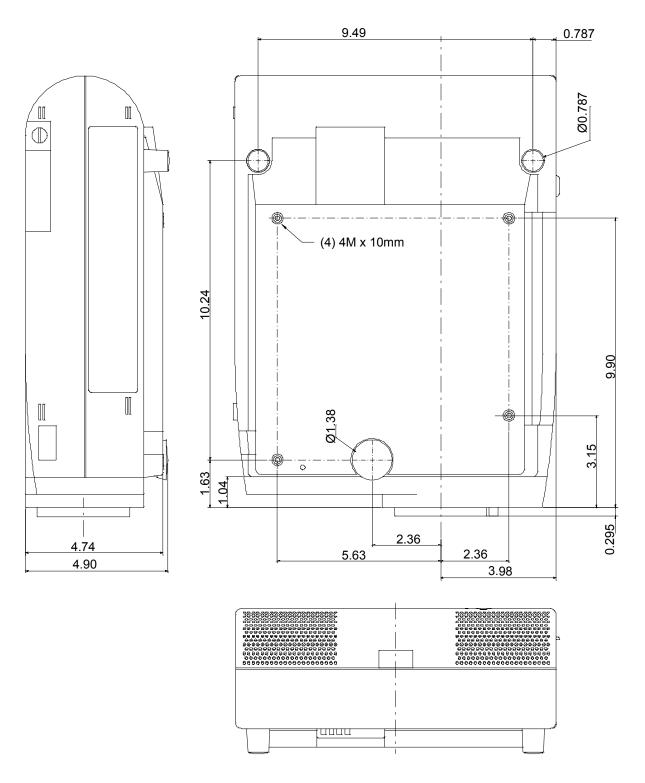


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Cabinet Dimensions (continued) The following diagrams show the cabinet dimensions for the MT1055/1056. Dimensions are in inches. For millimeters multiply by 25.4.

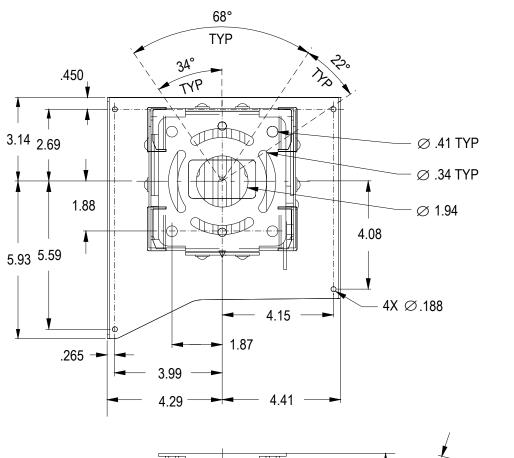


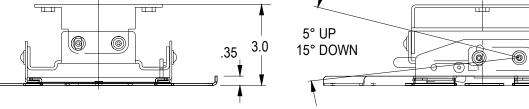
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with Standard Zoom Lens

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Ceiling Mount Dimensions (Model #: MTCM) The following diagrams show ceiling mount dimensions for the MT850/1050/1055/1056. Dimensions are in inches. For millimeters multiply by 25.4.





NEC MT1055/1056 Installation Data with Standard Zoom Lens

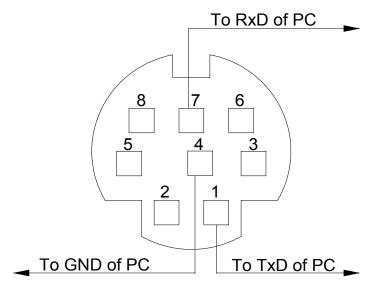
Control Codes

Function	Code Data							
POWER ON	02H	00H	00H	00H	00H	02H		
POWER OFF	02H	01H	00H	00H	00H	03H		
INPUT SELECT RGB1	02H	03H	00H	00H	02H	01H	01H	09H
INPUT SELECT RGB2	02H	03H	00H	00H	02H	01H	02H	0AH
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H	06H	0EH
INPUT SELECT S-VIDEO	02H	03H	00H	00H	02H	01H	0BH	13H
INPUT SELECT PC CARD VIEWER	02H	03H	00H	00H	02H	01H	1FH	27H
PICTURE MUTE ON	02H	10H	00H	00H	00H	12H		
PICTURE MUTE OFF	02H	11H	00H	00H	00H	13H		
SOUND MUTE ON	02H	12H	00H	00H	00H	14H		
SOUND MUTE OFF	02H	13H	00H	00H	00H	15H		
ON SCREEN MUTE ON	02H	14H	00H	00H	00H	16H		
ON SCREEN MUTE OFF	02H	15H	00H	00H	00H	17H		

Cable Connection

Protocol:Baud Rate:38400 bpsData Length:8 bitsParity:No ParityStop Bit:One bitX on/off:NoneCommunications:Full duplex

PC Control Connector (DIN-8P)



NOTE 1: Pins 2, 3, 5, 6 and 8 are used inside the projector. **NOTE 2:** For long cable runs it is recommended to set communication speed within projector menus to 9600 bps. v 3.0