

Ceiling Mounted and Desktop

1280 x 800

Rev 1.0

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Product Description

Type: 1 Chip DLP Projector Dimensions: 14.5" (W) x 5.3" (H) x 11.5" (D)

0.65" DMD Weight: 8.2 lbs

Brightness: 3500 Lumens Fan Noise: 39 dB / 33dB @ 1 meter

BTU's: 1208 BTU/hour Power Consumption: 354W (max)

Lens Specifications

Throw Ratio: 0.48:1 (for 100" diagonal) Focal Length: 17.5mm - 29.0mm

Offset Angle: 40.8° (for 100" diagonal) 1.7 - 2.1

Screen Sizes: 60" - 150" diagonal (16:10) Manual Focus

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.

- All calculations are based on a 16:10 aspect ratio.
- Distances are in inches, for millimeters multiply by 25.4.
- Distances may vary ±5%.

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.

16:10 Screen Formulas:

Refer to the diagrams and charts for popular screen sizes on page 2:

Definitions:

 $W = H \times 16/10$ W = Image Width

 $H = W \times 10/16$ H = Image Height (size) B = Vertical distance between lens center and screen center Screen Diagonal = W x 18.868/16

C = Throw distance

D = Vertical distance between lens center and screen top (screen bottom for desktop application)

Projection Formulas:

B = 0.4051W

C = 0.48W (wide)

D = 0.0926W

 $\alpha = \tan^{-1}(B/C)$

 α = Throw Angle

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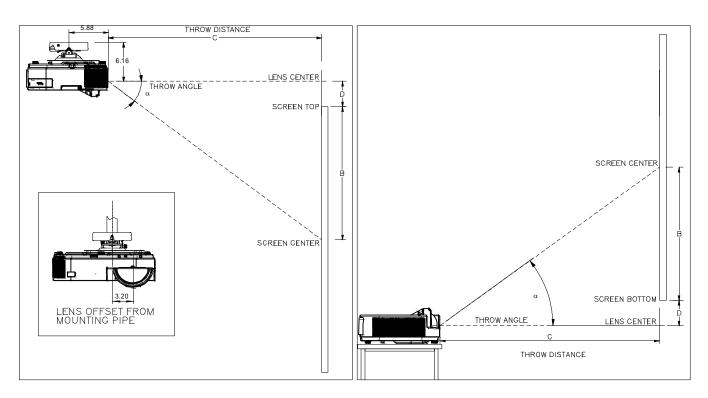
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Diagrams and Distance Charts

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.

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Distance Chart for popular 16:10 screens

Image Size (16:10))	on a					
(16:10) screen			В	С	D	α	
Diagonal	Width(W)	Height (H)					
inches	inches	inches	inches	inches	inches	degrees	
57	48	30	19	23	4	40.2	
60	51	32	21	25	5	40.2	
70	59	37	24	28	5	40.2	
79	67	42	27	32	6	40.2	
91	77	48	31	37	7	40.2	
100	85	53	34	41	8	40.2	
104	88	55	36	42	42 8		
110	93	58	38	45	9	40.2	
120	102	64	41	49	9	40.2	
130	110	69	45	53	10	40.2	
140	119	74	48	57 11		40.2	
150	127	79	52	61	12	40.2	

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

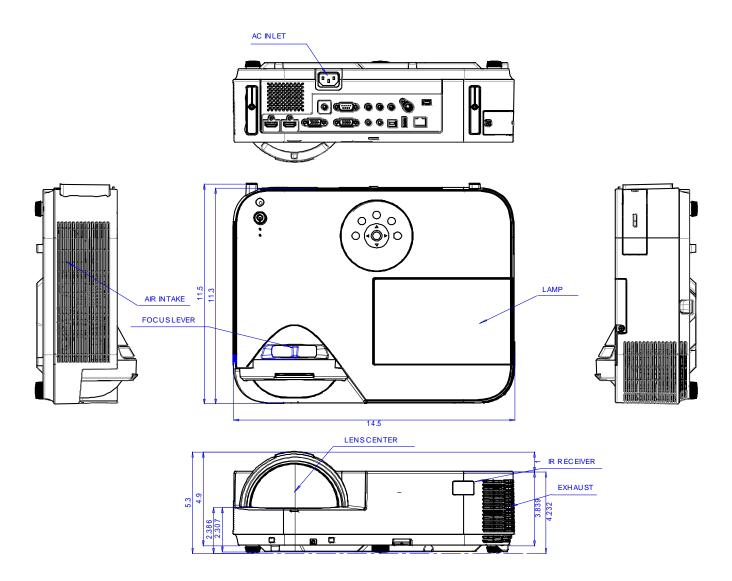
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<u>Cabinet Dimensions</u>
The following drawings show the cabinet dimensions.
Dimensions are in inches. For millimeters multiply by 25.4.



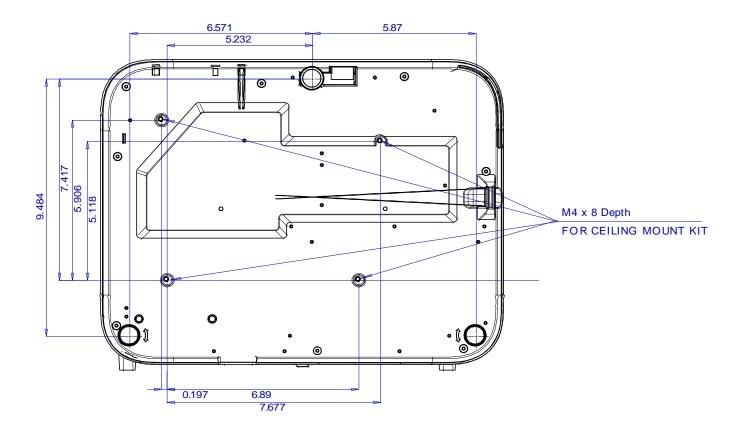
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Cabinet Dimensions (continued)
The following drawings show the cabinet dimensions.
Dimensions are in inches. For millimeters multiply by 25.4.



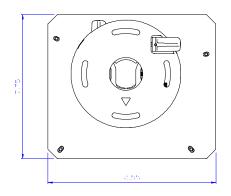
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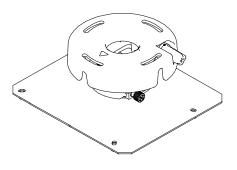


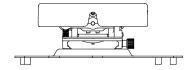
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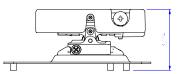
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Optional Ceiling Mount Dimensions (Model #: MP300CM)
The following drawings show the ceiling mount dimensions.
Dimensions are in inches. For millimeters multiply by 25.4.

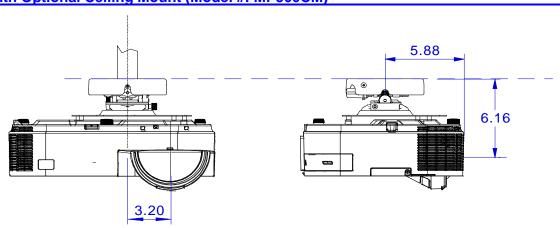








M300WS with Optional Ceiling Mount (Model #: MP300CM)



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Input / Output Panel



PC Control Codes

Function	Code Data								
POWER ON	02H	00H	00H	00H	00H	02H			
POWER OFF	02H	01H	00H	00H	00H	03H			
INPUT SELECT COMPUTER1	02H	03H	00H	00H	02H	01H	01H	09H	
INPUT SELECT COMPUTER2	02H	03H	00H	00H	02H	01H	02H	0AH	
INPUT SELECT HDMI	02H	03H	00H	00H	02H	01H	1AH	22H	
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 VIEWER	02H	03H	00H	00H	02H	01H	1FH	27H	
INPUT SELECT NETWORK	02H	03H	00H	00H	02H	01H	20H	28H	
INPUT SELECT USB DISPLAY	02H	03H	00H	00H	02H	01H	22H	2AH	
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			
PROJECTOR INFORMATION REQUEST	00H	BFH	00H	00H	01H	02H	C2H		
ERROR STATUS REQUEST	00H	88H	00H	00H	00H	88H			
INFORMATION REQUEST	03H	8AH	00H	00H	00H	8DH			

Note: Contact your NEC rep for codes not listed.

Cable Connection

Communication Protocol:

Baud Rate: 38400 bps
Data Length: 8 bits
Parity: No Parity
Stop Bit: One Bit
X on/off: None
Communications: Full duplex

To TxD of PC To RxD of PC To GND of PC To CTS of PC To CTS of PC

PC Control Connector (D-Sub 9P)

NOTE 1: Pins 1, 4, 6, and 9 are used inside the projector.

NOTE 2: For long cable runs it is recommended to set communication speed within the projector to 9600 bps.

NOTE 3: Jumper "Request to Send" and "Clear to Send" together on both ends of the cable to simplify cable connection.

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