

Ceiling Mounted and Desktop

Rev 1.6

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Product Description

Type: 3 panel LCD projector, Dimensions: 12.1" (W) x 5.4" (H) x 11.9" (D)

0.59" p-Si TFT w/MLA Weight: 7.3 lbs

 Resolution:
 1280 x 800 (16:10) / 1066 x 800 (4:3)
 Brightness:
 2100 Lumens

 Fan Noise:
 35 dB / 29dB @ 1 meter
 BTU's:
 1009 BTU/hour

 Network Ready
 Power Consumption:
 325W (max)

Lens Specifications

Throw Ratio: 0.74:1 (for 94" diagonal) Focal Length: 9.7mm

Offset Angle: 29.1° (for 94" diagonal) F/#: 2.3

Screen Sizes: 57" - 104" diagonal (16:10) Manual Focus/Manual Zoom

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 4:3 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 = Image Width W = H x 16/10 H = Image Height (size) H = W x 10/16

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 = 0.418W

C = 0.74W

D = 0.1W

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

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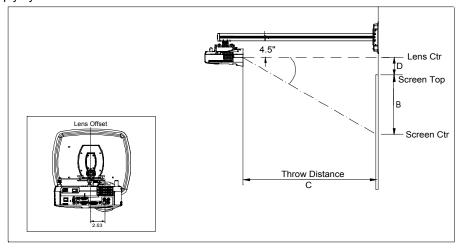
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Diagrams and Distance Charts

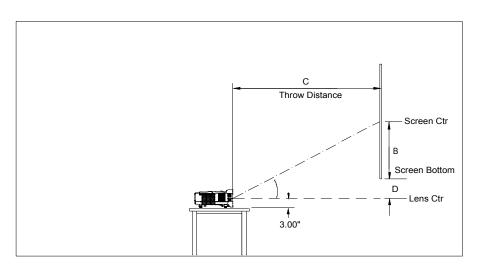
The following shows the proper relative positions of the projector and screen. Refer to the table to determine the position of installation.

Distances are in inches. For millimeters multiply by 25.4.

Wall Mounted



Desktop



Distance Chart for popular 16:10 screens

lmage 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	20	36	5	29.3
66	56	35	23	41	6	29.3
68	58	36	24	43	6	29.3
75	64	40	27	47	6	29.2
79	67	42	28	50	7	29.2
85	72	45	30	53	7	29.1
87	74	46	31	54	7	29.1
92	78	49	33	58	8	29.1
94	80	50	33	59	8	29.1
104	88	55	37	65	9	29.1

Notes:

#1 – Maximum screen size utilizing the NPSTWM (wall mount arm as shown in diagram above) is 87" diagonally.

#2 - For screen sizes not indicated on the projection tables, use the formulas on page 1.

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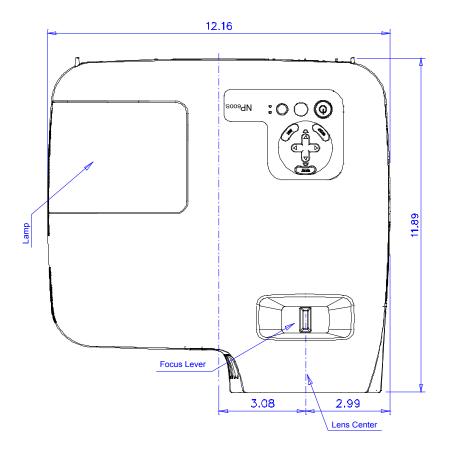


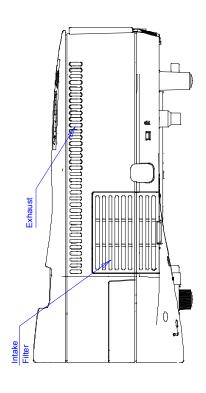
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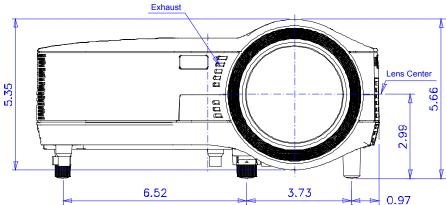
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Cabinet Dimensions

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







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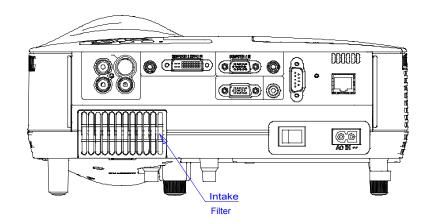


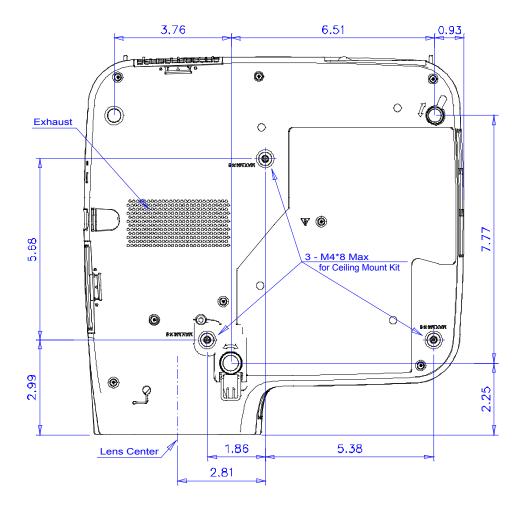
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Cabinet Dimensions (continued)

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





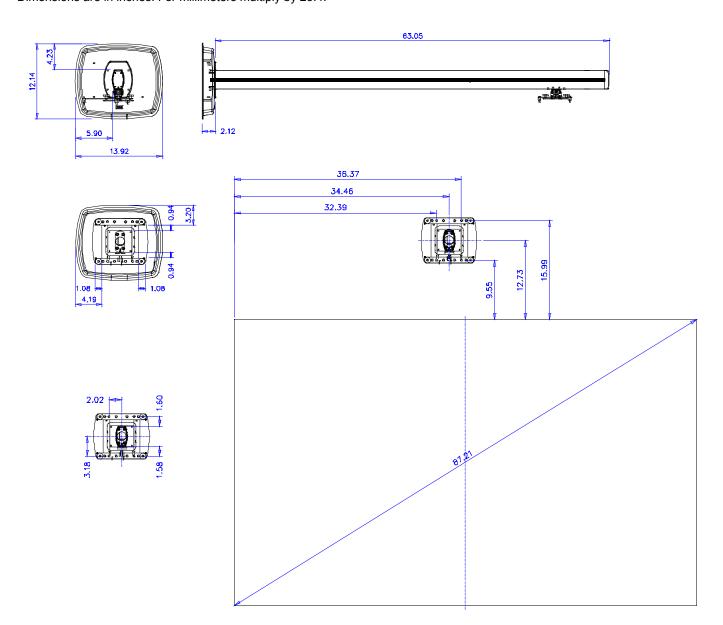
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Optional Wall Mount Dimensions (Model #: NPSTWM) The following drawings show the ceiling mount dimensions. Dimensions are in inches. For millimeters multiply by 25.4.



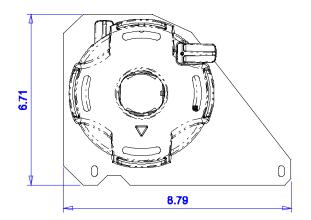
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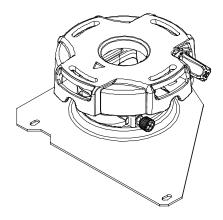


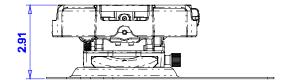
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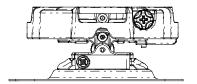
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Optional Ceiling Mount Dimensions (Model #: NP600CM)
The following drawings show the ceiling mount dimensions.
Dimensions are in inches. For millimeters multiply by 25.4.









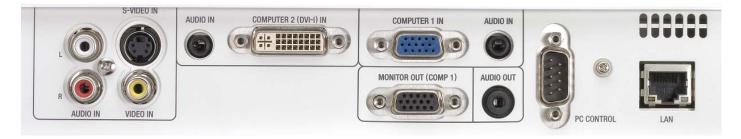
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Input /Output Panel



PC Control Codes

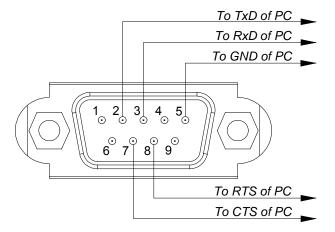
Function	Code Data							
POWER ON	02H	00H	00H	00H	00H	02H		
POWER OFF	02H	01H	00H	00H	00H	03H		
INPUT SELECT COMPUTER	02H	03H	00H	00H	02H	01H	01H	09H
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H	06H	0EH
INPUT SELECT S-VIDEO	02H	03H	00H	00H	02H	01H	0BH	13H
INPUT SELECT DVI (DIGITAL)	02H	03H	00H	00H	02H	01H	1AH	22H
INPUT SELECT DVI (ANALOG)	02H	03H	00H	00H	02H	01H	02H	0AH
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	HA8	00H	00H	00H	8DH		

Note: Contact your NEC rep for codes not listed.

Cable Connection

Communication Protocol:

Baud Rate: 19200 bps
Data Length: 8 bits
Parity: No Parity
Stop Bit: One Bit
X on/off: None
Communications: Full duplex



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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