

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)

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

 1024 x 768 (4:3) / 1024 x 576 (16:9)
 Brightness:
 2600 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 100" diagonal) Focal Length: 9.7mm

Offset Angle: 29.1° (for 100" diagonal) F/#: 2.3

Screen Sizes: 70" - 110" diagonal (4:3) 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.

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

<u>Definitions:</u> <u>4:3 Screen Formulas:</u>

W = Image Width $W = H \times 4/3$ H = Image Height (size) $H = W \times 3/4$

C = Throw distance

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

Projection Formulas:

B = 0.417W

C = 0.74W

D = 0.042W

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

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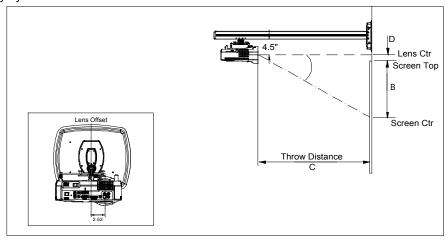
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Diagrams and Distance Charts

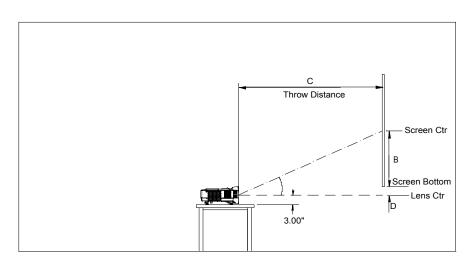
The following shows the proper relative positions of the projector and screen. Refer to the table to determine the position of installation.

Distances are in inches. For millimeters multiply by 25.4.

Wall Mounted



Desktop



Distance Chart for popular 4:3 screens

Screen Size (4:3)		В	С	D	α		
Diagonal	Width(W)	Height (H)		C		l u	
inches	inches	inches	inches	inches	inches	degrees	
60	48	36	20	36	2	29.4	
67	53.6	40.2	22	40	2	29.4	
72	57.6	43.2	24	43	2	29.3	
77	61.6	46.2	26	46	3	29.2	
84	67.2	5.4	28	50	3	29.2	
90	72	54	30	53	3	29.1	
100	80	60	33	59	3	29.1	
110	88	66	37	65	4	29.1	

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

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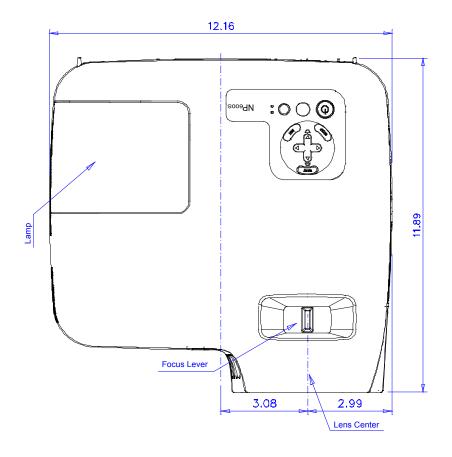


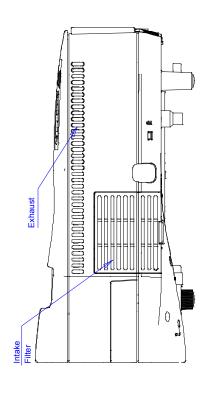
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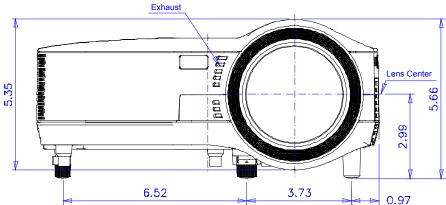
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Cabinet Dimensions

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







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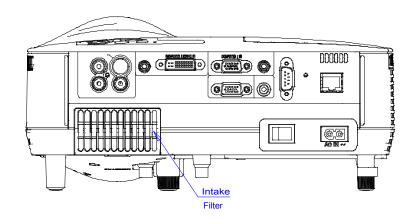


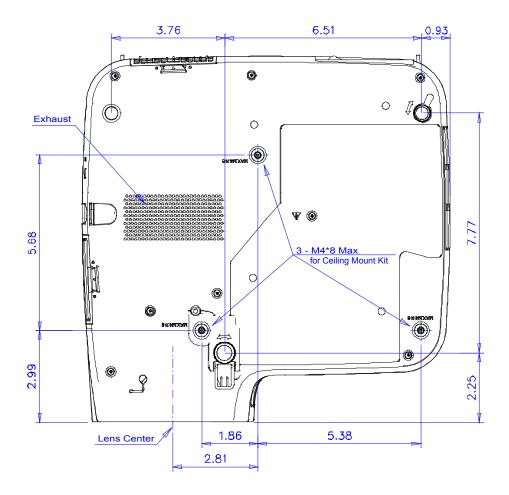
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Cabinet Dimensions (continued)

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





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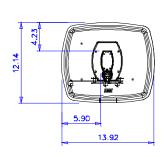


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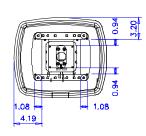
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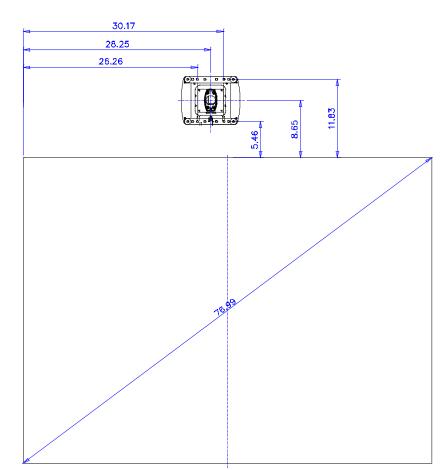
Optional Wall Mount Dimensions (Model #: NPSTWM) The following drawings show the ceiling mount dimensions.

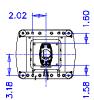
Dimensions are in inches. For millimeters multiply by 25.4.











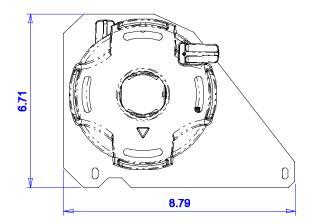
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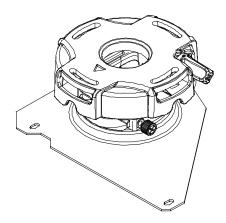


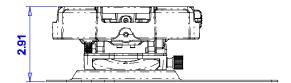
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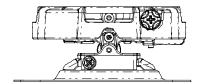
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Optional Ceiling Mount Dimensions (Model #: NP600CM)
The following drawings show the ceiling mount dimensions.
Dimensions are in inches. For millimeters multiply by 25.4.









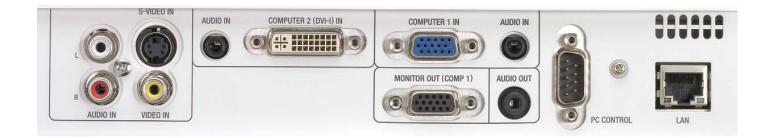
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Input / Output Panel



PC Control Codes

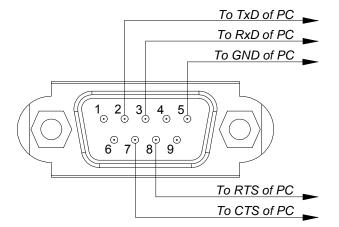
Function	Code Data								
POWER ON	02H	00H	00H	00H	00H	02H			
POWER OFF	02H	01H	00H	00H	00H	03H			
INPUT SELECT COMPUTER	02H	03H	00H	00H	02H	01H	01H	09H	
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H	06H	0EH	
INPUT SELECT S-VIDEO	02H	03H	00H	00H	02H	01H	0BH	13H	
INPUT SELECT DVI (DIGITAL)	02H	03H	00H	00H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