

6135W/6136 Installation Guide

Ceiling Mounted and Desktop

Rev 1

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Product Description

Type:	0.59 inch LCD with MLA (6135W) 0.63 inch LCD with MLA (6136)	Dimensions:	14.9”(W) x 6.5”(H) x 16.9”(D)
Native Resolution:	1280 x 800 (6135W) 1024 x 768 (6136)	Weight:	12.4 lbs
Brightness:	3500 lumens (6135W) 3600 lumens (6136)	Screen Range:	58.0” – 110.0” Diagonal (16:10) 61.5” – 116.0” Diagonal (4:3)
Power Consumption:	337W (max)	Fan Noise:	38 dB / 28dB @ 1 meter
		BTU's:	1149.90 BTU/hour

Screen/Aspect Ratio

Both 4:3 and 16:9 screens are fully supported with proper aspect ratio control for both type sources using NEC developed scaling technology. By selecting the screen type in the menus, Aspect Ratio control is reconfigured for that screen type.

Notes

- For screen sizes not indicated on the projection charts, 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 4:3 aspect ratio.
- Distances are in inches, for millimeters multiply by 25.4.
- Distances may vary $\pm 5\%$.

Formulas

The Projection Formulas use the image width for calculation. Image width is the same for all aspect ratios, only vertical image size varies. For proper projector placement, determine the image width for a desired screen size. Use the Screen Formulas below to calculate all screen dimensions. Plug the screen width in for “W” in the Projection Formulas.

Refer to the diagrams and charts for popular screen sizes on page 2 and 3.

Definitions:

- W** = Screen width
- H** = Screen height
- A** = Distance between projector cabinet and screen
- B** = Vertical distance between projector foot and screen center
- C** = Throw distance
- D** = Vertical distance between projector foot and screen bottom (screen top for ceiling mounted application)

4:3 Screen Formulas:

- W** = $H \times 4/3$
- H** = $W \times 3/4$
- Screen Diagonal** = $W \times 5/4$

16:10 Screen Formulas:

- W** = $H \times 16/10$
- H** = $W \times 10/16$
- Screen Diagonal** = $W \times 18.868/16$

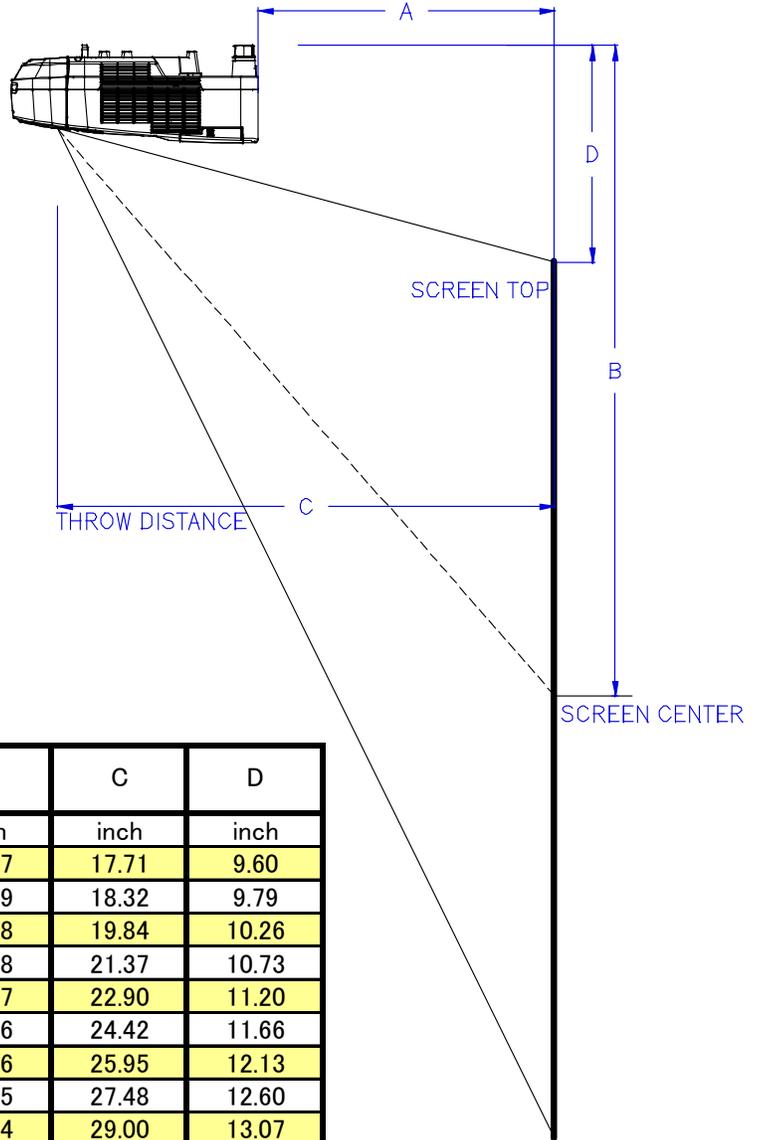
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Ceiling Mounted Installation

The following diagram shows the relationship between projector position and the screen. Refer to the charts below for data. Distances are in inches. For millimeters multiply by 25.4.



Projection Formulas:

$$A = C - 13.52$$

$$B = 0.4229W + 4.174$$

$$C = 0.360W$$

$$D = 0.1104W + 4.174$$

Distance Chart for Popular 16:10 Screen Sizes

Screen Size			A	B	C	D
Diagonal	Width	Height				
inch	inch	inch	inch	inch	inch	inch
58.0	49	31	4.19	24.97	17.71	9.60
60.0	51	32	4.80	25.69	18.32	9.79
65.0	55	34	6.32	27.48	19.84	10.26
70.0	59	37	7.85	29.28	21.37	10.73
75.0	64	40	9.38	31.07	22.90	11.20
80.0	68	42	10.90	32.86	24.42	11.66
85.0	72	45	12.43	34.66	25.95	12.13
90.0	76	48	13.96	36.45	27.48	12.60
95.0	81	50	15.48	38.24	29.00	13.07
100.0	85	53	17.01	40.04	30.53	13.54
105.0	89	56	18.53	41.83	32.05	14.00
110.0	93	58	20.06	43.62	33.58	14.47

Note: For screen sizes not indicated in the distance charts, use the formulas on page 1.

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Desktop Setup

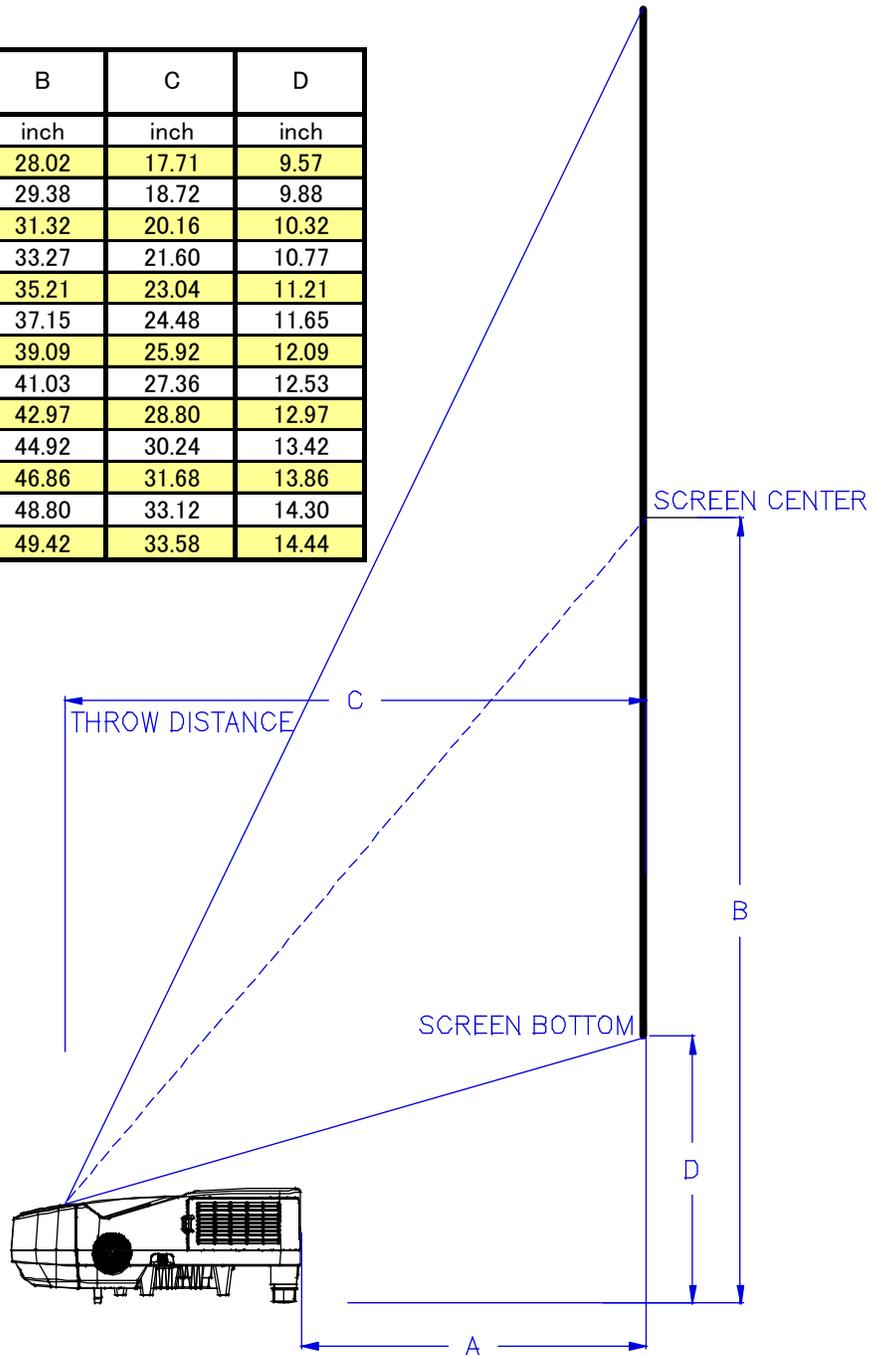
The following diagram shows the relationship between projector position and the screen. Refer to the charts below for data. Distances are in inches. For millimeters multiply by 25.4.

Distance Chart for Popular 4:3 Screen Sizes

Screen Size			A	B	C	D
Diagonal	Width	Height				
inch	inch	inch	inch	inch	inch	inch
61.5	49	37	4.19	28.02	17.71	9.57
65.0	52	39	5.20	29.38	18.72	9.88
70.0	56	42	6.64	31.32	20.16	10.32
75.0	60	45	8.08	33.27	21.60	10.77
80.0	64	48	9.52	35.21	23.04	11.21
85.0	68	51	10.96	37.15	24.48	11.65
90.0	72	54	12.40	39.09	25.92	12.09
95.0	76	57	13.84	41.03	27.36	12.53
100.0	80	60	15.28	42.97	28.80	12.97
105.0	84	63	16.72	44.92	30.24	13.42
110.0	88	66	18.16	46.86	31.68	13.86
115.0	92	69	19.60	48.80	33.12	14.30
116.6	93	70	20.06	49.42	33.58	14.44

Projection Formulas:

- A = C - 13.52
- B = 0.4854W + 4.142
- C = 0.360W
- D = 0.1104W + 4.142



Note: For screen sizes not indicated in the distance charts, use the formulas on page 1.

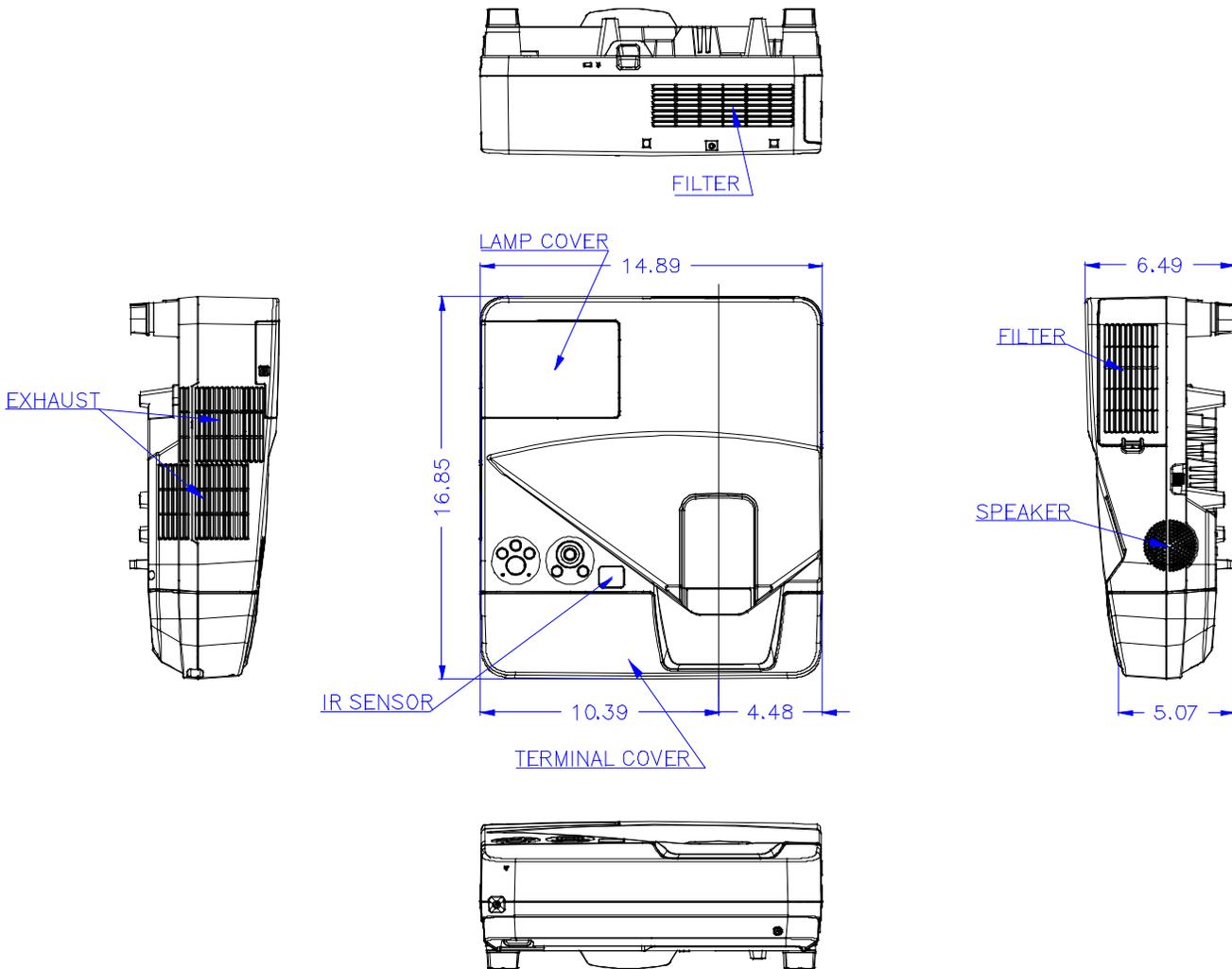
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Cabinet Dimensions

The following drawings show the cabinet dimensions for the 6136 and 6135W. Dimensions are in inches. For millimeters multiply by 25.4.



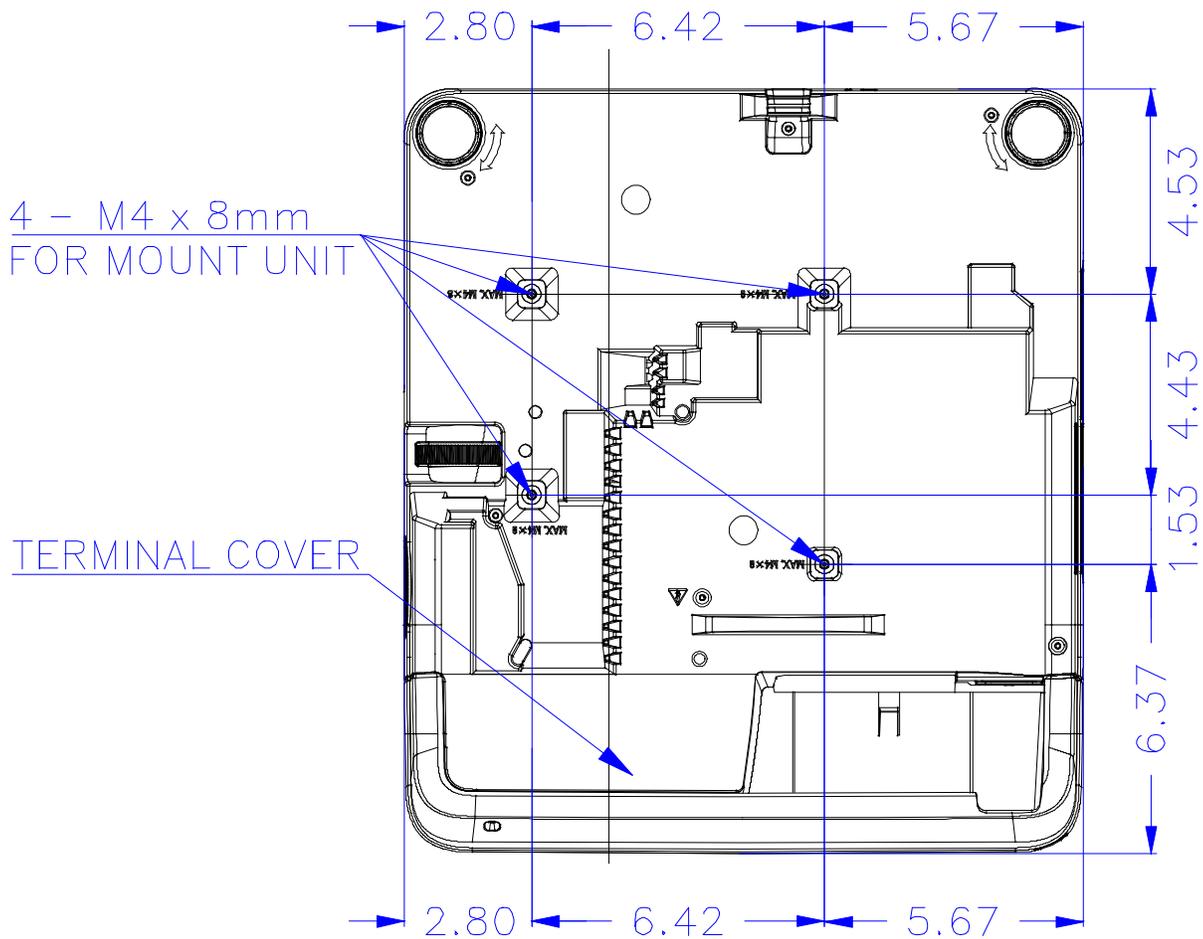
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Cabinet Dimensions (continued)

The following drawings show the cabinet dimensions for the 6136 and 6135W. Dimensions are in inches. For millimeters multiply by 25.4.



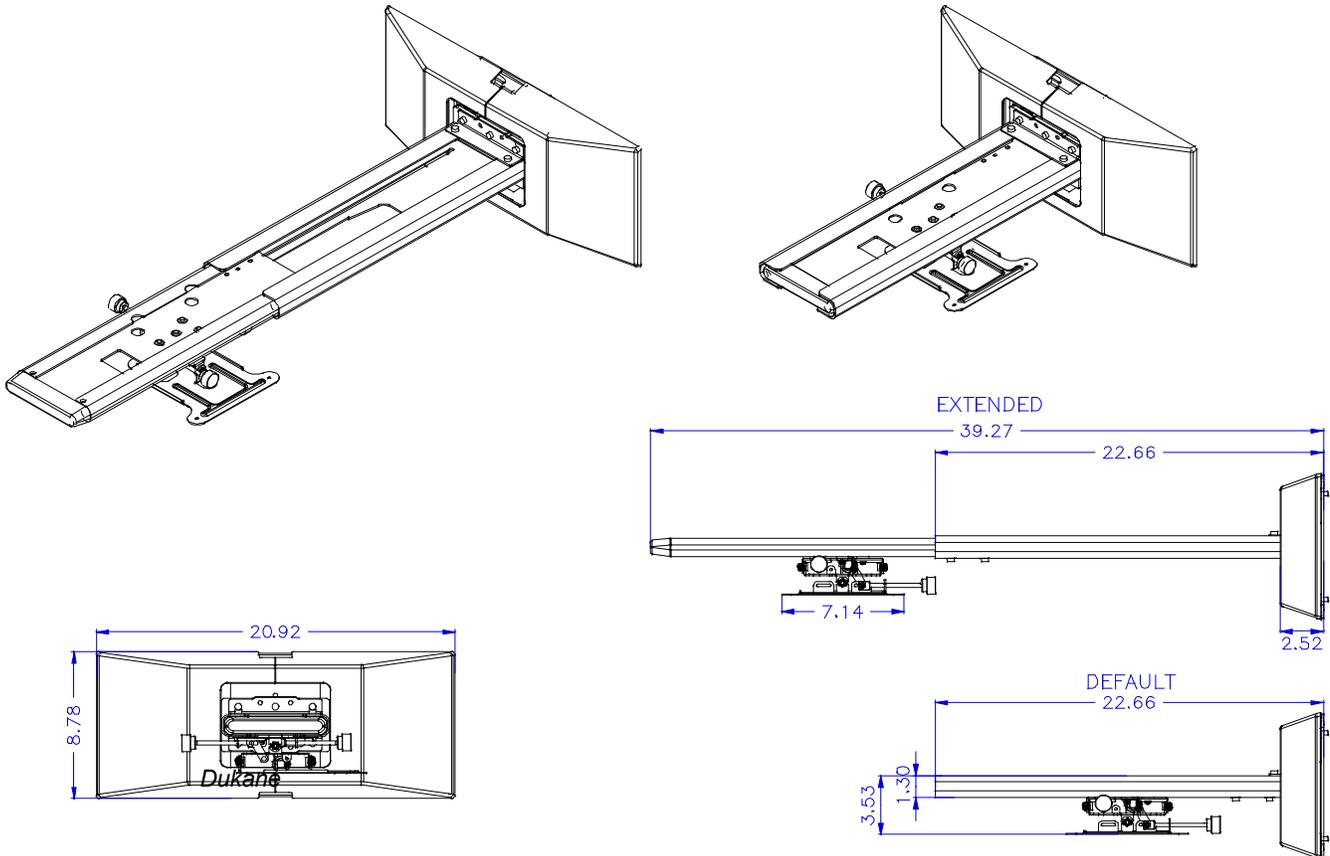
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Optional Wall Mount Dimensions (Model #: NP04WK)

The following drawings show the ceiling mount dimensions for the 6136 and 6135W. Dimensions are in inches. For millimeters multiply by 25.4.



Note: The Dukane models described in this document are manufactured by NEC and use the same firmware, software programs, code, and accessory parts. The equivalent Dukane to NEC models are 6135W (NP-UM351W), and 6136 (NP-UM361X). The 6135WM and 6136M are models which have the wall mount included.

DUKANE CORP AV SERVICE DEPT

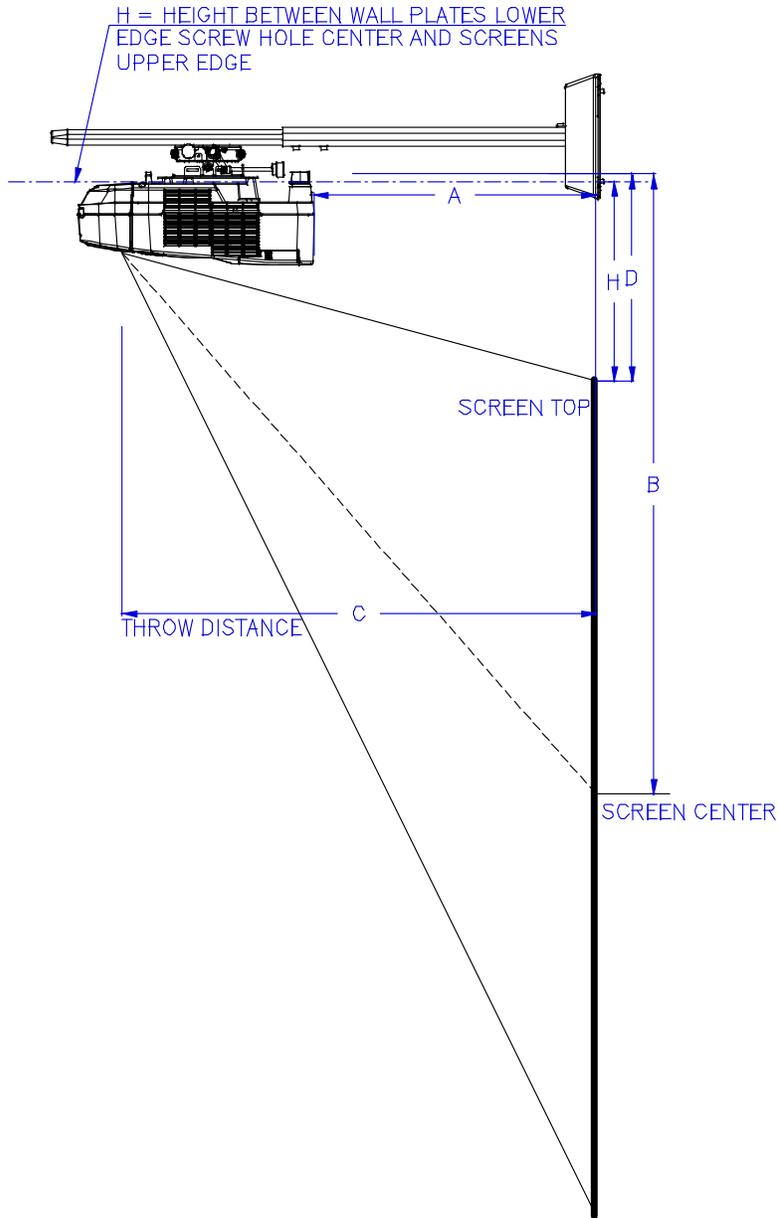
2900 Dukane Drive
St Charles, IL 60174
800-676-2487 / 630-762-4032
Fax 630-584-5156
avservice@dukane.com
www.dukaneav.com

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Optional Wall Mount Dimensions (Model #: NP04WK)



Screen Size			A	B	C	D	H
Diagonal	Width	Height					
inch	inch	inch	inch	inch	inch	inch	inch
58.0	49	31	4.19	24.97	17.71	9.60	8.39
60.0	51	32	4.80	25.69	18.32	9.79	8.58
70.0	59	37	7.85	29.28	21.37	10.73	9.49
80.0	68	42	10.90	32.86	24.42	11.66	10.43
90.0	76	48	13.96	36.45	27.48	12.60	11.38
100.0	85	53	17.01	40.04	30.53	13.54	12.32

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Input Panel



Control Codes

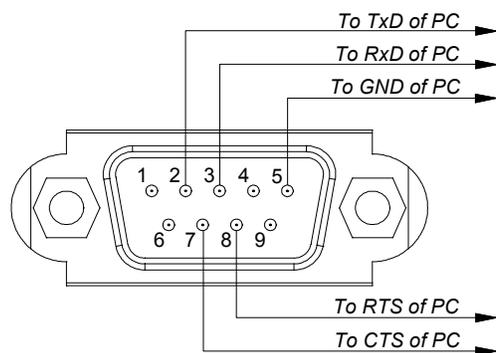
Function	Code Data					
POWER ON	02H	00H	00H	00H	00H	02H
POWER OFF	02H	01H	00H	00H	00H	03H
INPUT SELECT COMPUTER	02H	03H	00H	00H	02H	01H 01H 09H
INPUT SELECT HDMI1/MHL	02H	03H	00H	00H	02H	01H 1AH 22H
INPUT SELECT HDMI2	02H	03H	00H	00H	02H	01H 1BH 23H
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H 06H 0EH
INPUT SELECT USB-A	02H	03H	00H	00H	02H	01H 1FH 27H
INPUT SELECT LAN	02H	03H	00H	00H	02H	01H 20H 28H
INPUT SELECT USB-B	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

Note: Contact your Dukane 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



NOTE 1: It is recommended to set the projector to "Idle Mode" in the Setup menu for best Power ON response.

NOTE 2: Pins 2, 3, 5, 6 and 8 are used inside the projector.

NOTE 3: For long cable runs it is recommended to set communication speed in the Setup menu to 9600 bps.