DUKANE

6132HD-Installation Guide
Desktop and Ceiling Mount

V1.0

Contents

Product Description

Type:	0.65 inch DLP	
Native Resolution:	1920 x 1080	
Brightness:	3200 lumens	
Power Consumption:	323W (max)	

Dimensions:	15.0"(W) x 4.3"(H) x 12.3"(D)
Weight:	10.4 lbs
Screen Range:	85.0" – 100.0"" Diagonal (16:9)
Fan Noise:	34 dB / 29dB @ 1 meter
BTU's:	1102.2 BTU/hour

Screen/Aspect Ratio

Both 16:9 and 4:3 screens are fully supported with proper aspect ratio control for both type sources using new 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 16:9 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. 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)

16:9 Screen Formulas:
W = H x 16/9
H = W x 9/16
Screen Diagonal = W x 18.358/16

4:3 Screen Formulas:
W = H x 4/3
H = W x 3/4
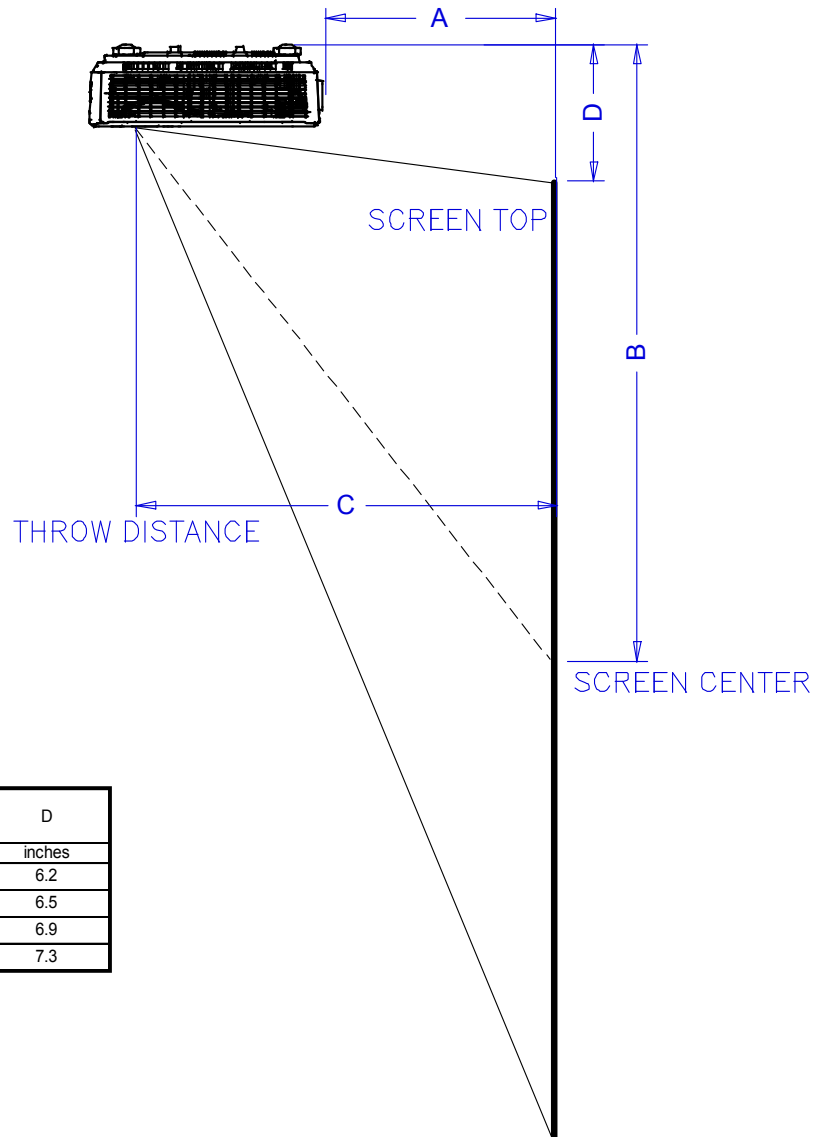**Screen Diagonal** = W x 5/4

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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-10.00

B = 0.365W

C = 0.252W

D = 0.0835W

Distance Chart for Popular 16:9 Screen Sizes

Screen Size (16:9)			A	B	C	D
Diagonal	Width(W)	Height (H)				
inches	inches	inches	inches	inches	inches	inches
85	74	42	9	27	19	6.2
90	78	44	10	29	20	6.5
95	83	47	11	30	21	6.9
100	87	49	12	32	22	7.3

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

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.
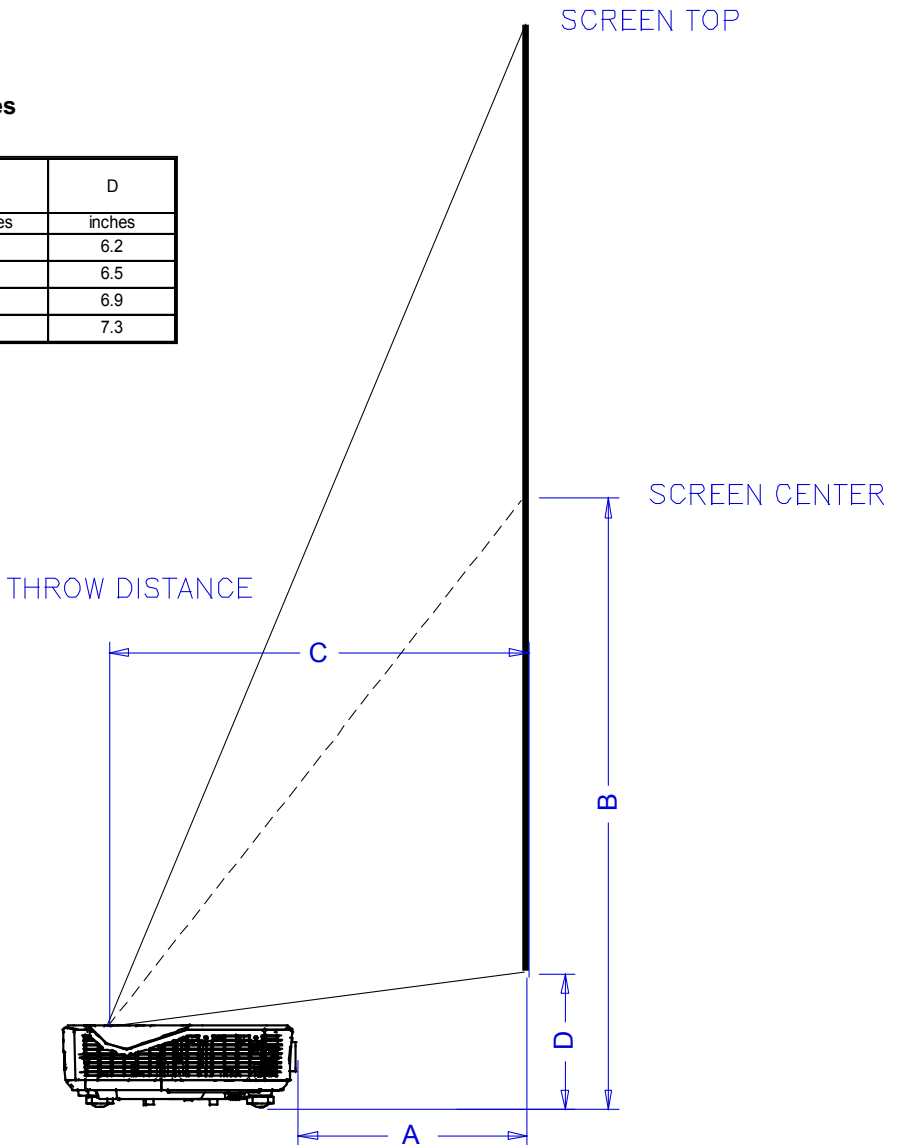
Projection Formulas:

A = C-10.00
B = 0.365W
C = 0.252W
D = 0.0835W

Distance Chart for Popular 16:9 Screen Sizes

Screen Size (16:9)			A	B	C	D
Diagonal	Width(W)	Height (H)				
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85	74	42	9	27	19	6.2
90	78	44	10	29	20	6.5
95	83	47	11	30	21	6.9
100	87	49	12	32	22	7.3

SCREEN TOP

SCREEN CENTER

THROW DISTANCE

C

B

D

A

*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 6132HD.
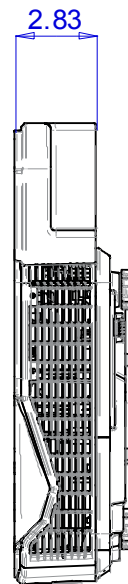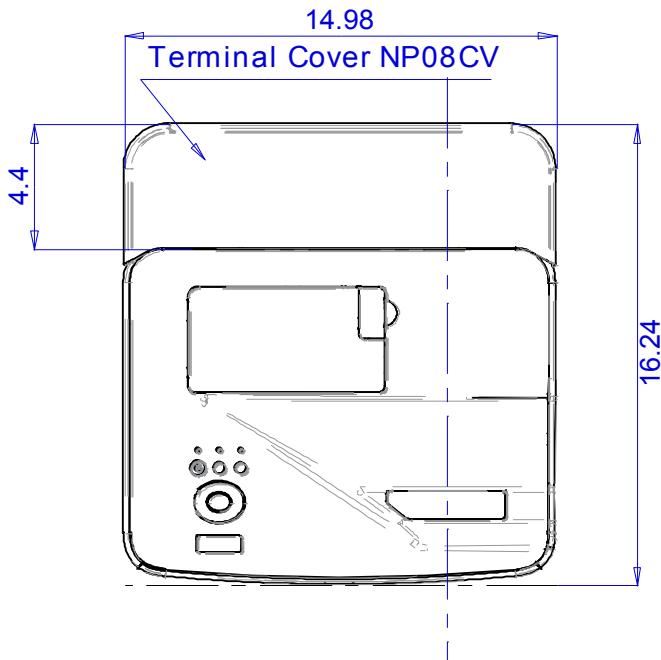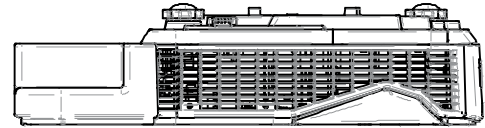Dimensions are in inches. For millimeters multiply by 25.4.

Input Panel

Exhaust

Lamp Cover

IR Receiver

14.98

12.04

11.24   3.79

4.23

Intake

16.7

18.2

19.2

20.6

IR Receiver

Cabinet Dimensions (continued)

The following drawings show the cabinet dimensions for the 6132HD.
Dimensions are in inches. For millimeters multiply by 25.4.

14.98
Terminal Cover NP08CV
4.4
16.24
2.83
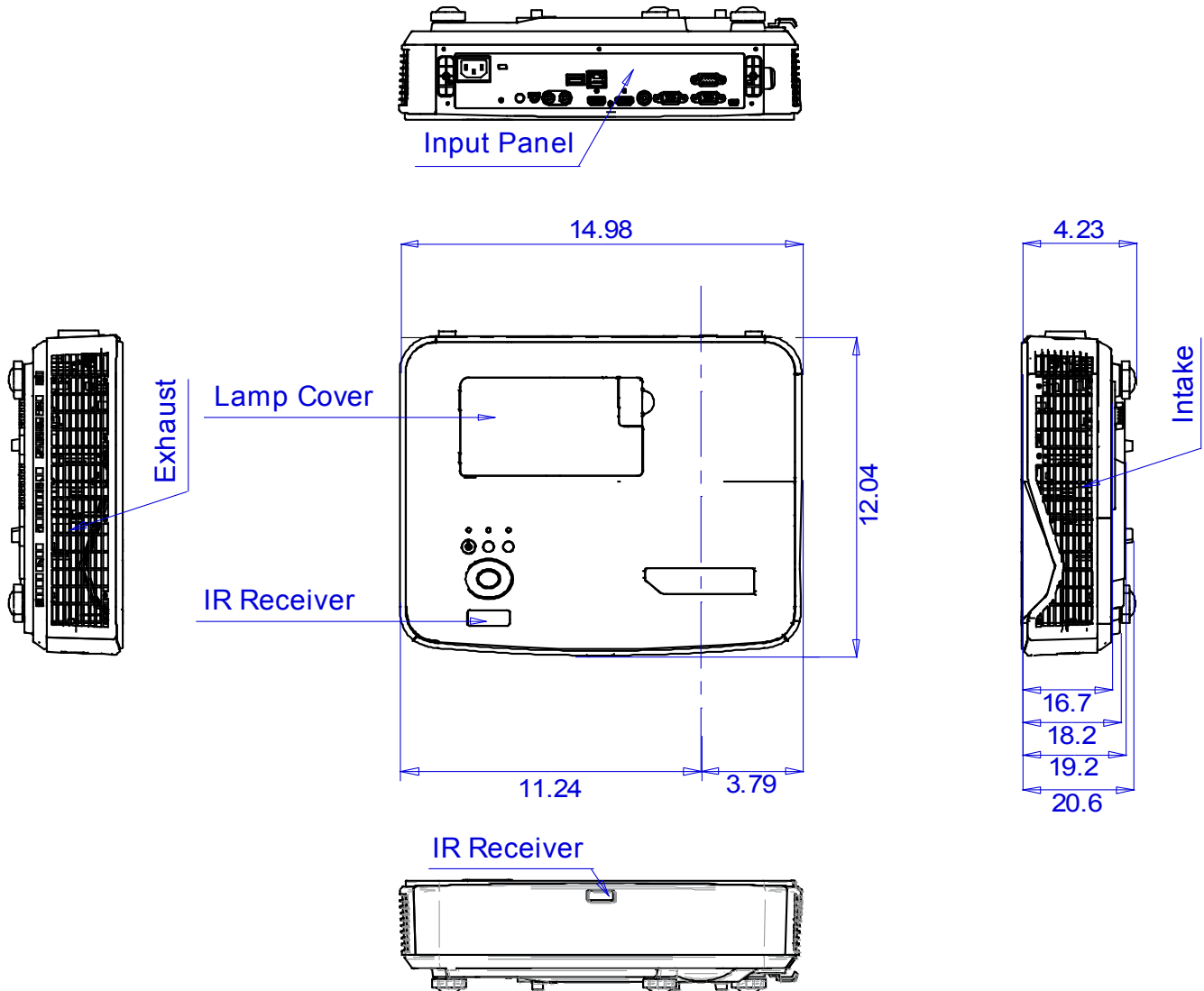
Cabinet Dimensions (continued)

The following drawings show the cabinet dimensions for the 6132HD.
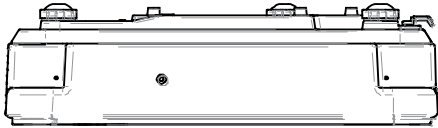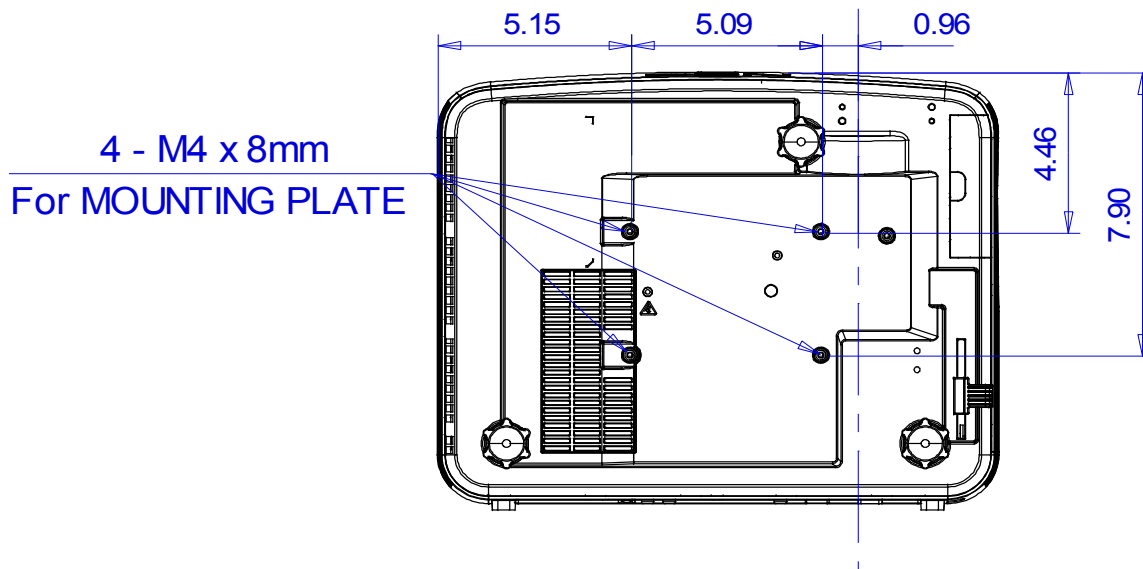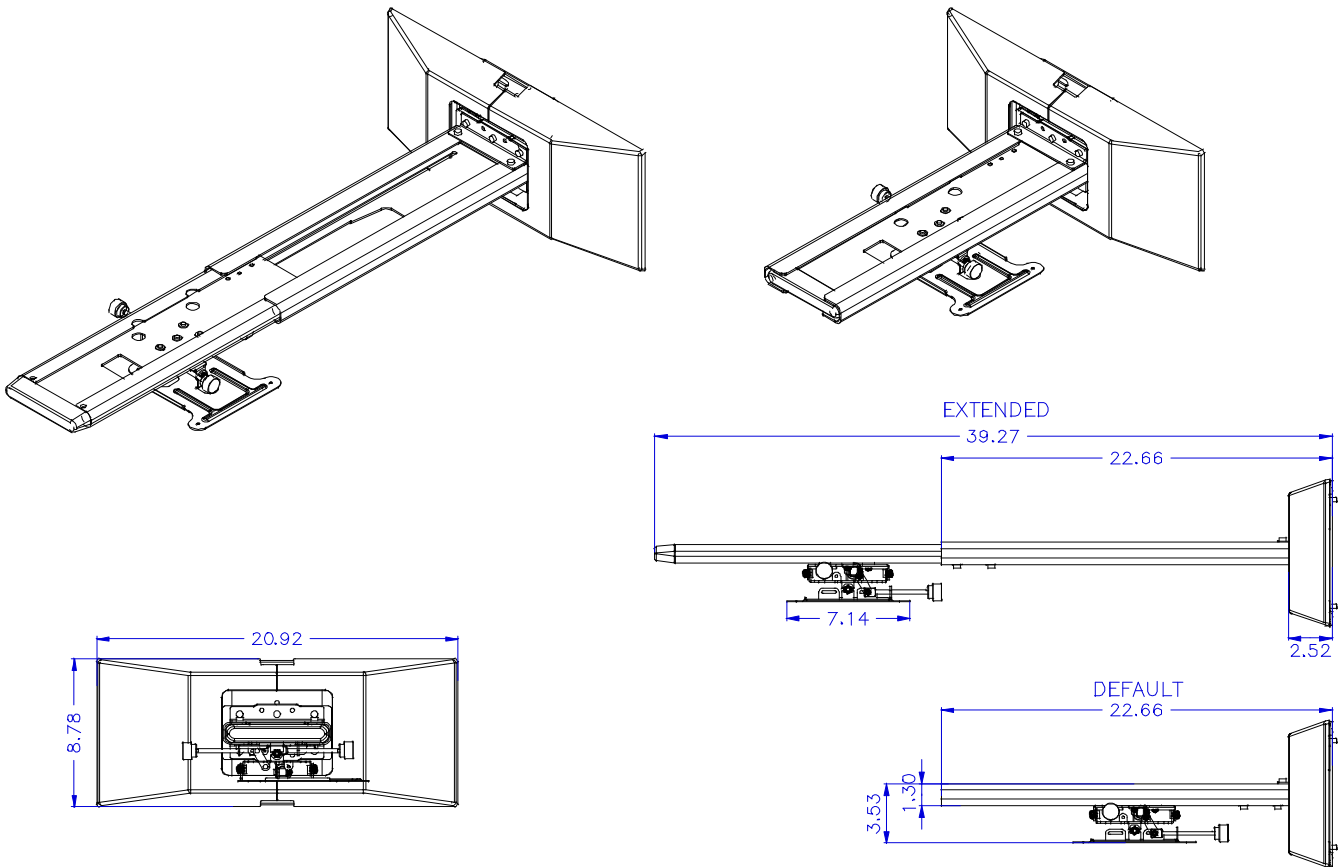Dimensions are in inches. For millimeters multiply by 25.4.

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Optional Wall Mount Dimensions (Model #: NP04WK)

The following drawings show the wall mount for the 6132HD.
The projector package with the wall mount included is the 6132HDM.
Dimensions are in inches. For millimeters multiply by 25.4.

EXTENDED
39.27
22.66
7.14
2.52

20.92
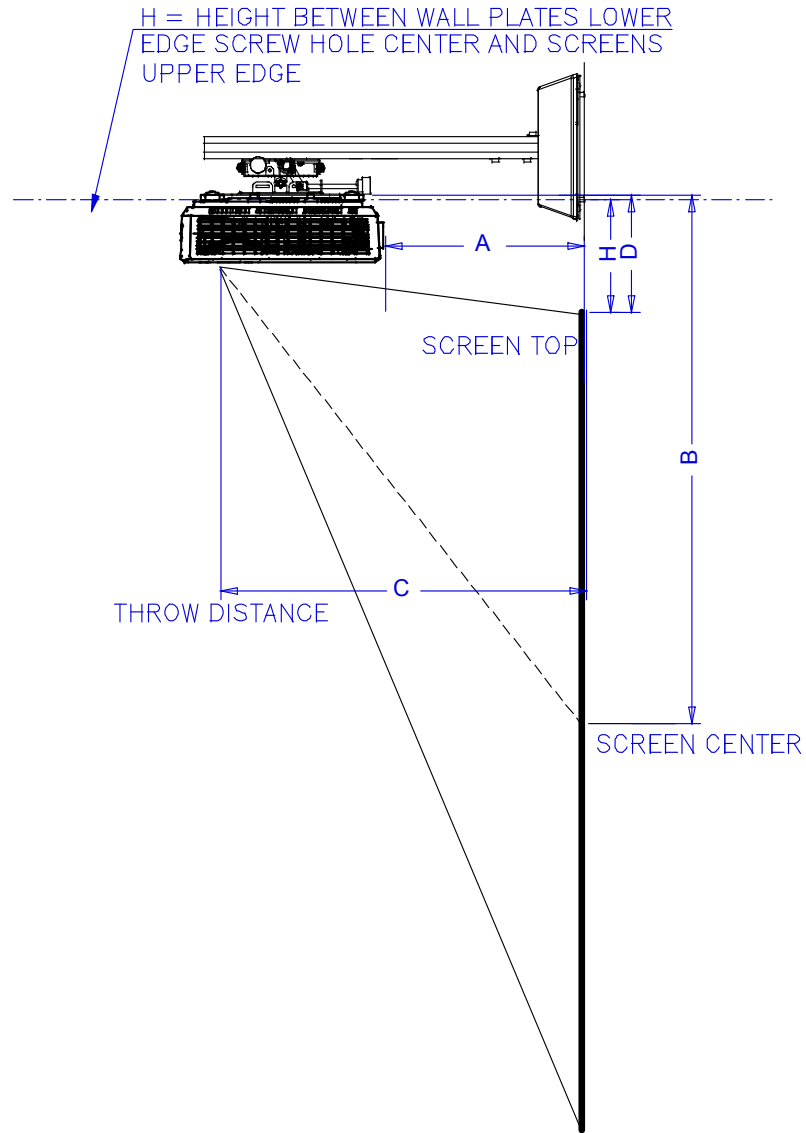8.78

DEFAULT
22.66
3.53
1.30

Note: The Dukane models described in this document are manufactured by NEC and use the same firmware, software programs, control code, and accessory parts. The equivalent Dukane to NEC models are 6132HD (NP-U321H) AND 6132HDM (NP-321H-WK).

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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
85.0	74	42	8.7	27.0	18.7	6.2	6.4
90.0	78	44	6.2	28.6	19.8	6.5	6.8
95.0	83	47	7.3	30.2	20.9	6.9	7.2
100.0	87	49	8.4	31.8	22.0	7.3	7.5

Input Panel

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 HDMI 1	02H	03H	00H	00H	02H	01H	A1H	A9H
INPUT SELECT HDMI 2	02H	03H	00H	00H	02H	01H	A2H	AAH
INPUT SELECT VIDEO	02H	03H	00H	00H	02H	01H	06H	0EH
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 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

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

1 2 3 4 5
6 7 8 9

To RTS of PC
To CTS of PC
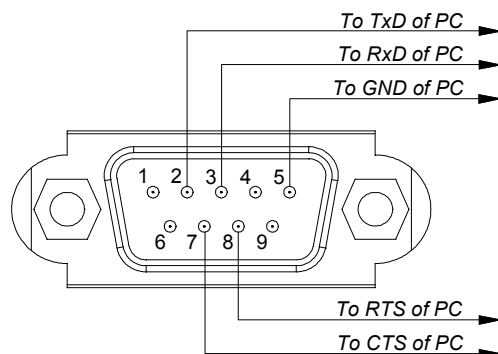
NOTE 1: *It is recommended to set the projector to "Idle Mode" in the Setup menu for best Power ON response.*
NOTE 2: *Pins 2, 3, 5, 6 and 8 are used inside the projector.*
NOTE 3: *For long cable runs it is recommended to set communication speed in the Setup menu to 9600 bps.*