

1223 Meyer Hall Conference  
Room  
A/V System Diagram

Designed by Abbas Ahmadi  
March 20, 2018

Chief RPA-430 Inverted  
Custom Projector Mount



Projector  
Hitachi CP-X430  
Resolution:  
1024 x 768  
Lumen: 2500  
Aspect Ratio: 4:3

Extron VGA Cables



Extron  
VGA  
Wallplate



Gauge 18  
wires



SP Controls PixiePlus  
8 Button Control Module



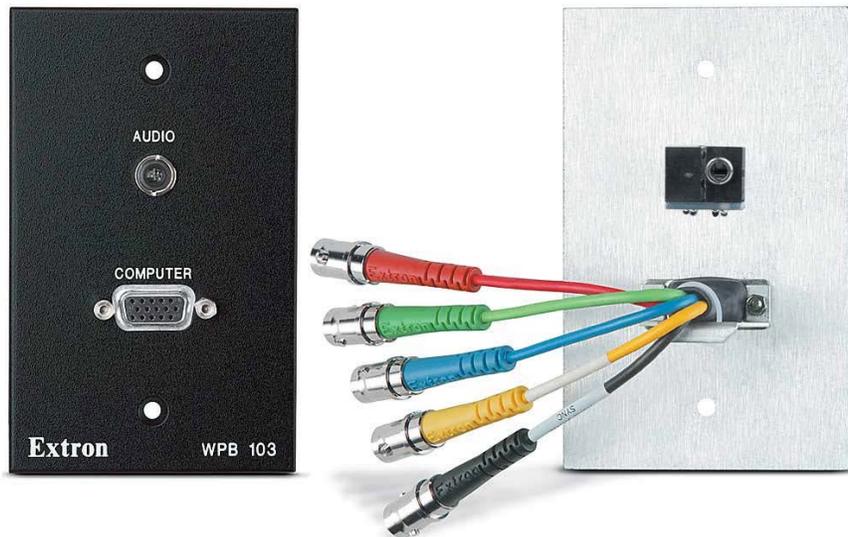
VGA Cable with 3.5mm Stereo Audio



Laptop



Built-in PC



### **WPB 103**

One-Gang WPB - Wallplate with Computer Video and Stereo Audio Connectors from Extron.com.

Part number 60-774-21

Price \$40.60, Quantity = 2



### **WPBC 103/104/105 Series**

One Pre-terminated Cable for WPB 103 Wallplates to Projector – Plenum (Length: 35') from Extron.com

Part Number = 26-624-35

Price: \$111.36, Quality: 2



Da-Lite 40782 Cosmopolitan Electrol Motorized  
Projection Screen (60 x 80"):  
Image Size: 60 x 80" (1.5 x 2 m) (HW)  
Diagonal: 100" (2.5 m)  
Format: Video  
Aspect Ratio: 4:3  
Casing Length: 92" (2.3 m)

18 Gauge  
wires



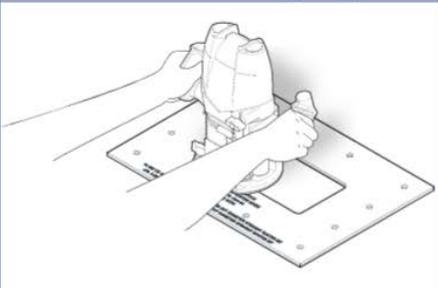
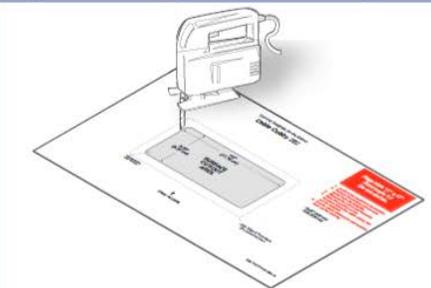
Da-Lite Three-Button  
Low Voltage Control Switch



## Extron Cable Cubby 202 Series/2 Cable Access Enclosure for AV Connectivity and AC Power

### Cable Cubby 202 • Installation Guide (Continued)

Choose one of the following methods for cutting the hole:

Hand Router and Routing Template	Jigsaw and Paper Cut-Out Template	CNC Wood Router				
		<p>If using a CNC wood router or other precise machinery, use the exact cut-out dimensions (see the table below).</p>				
		<p style="text-align: center;"><b>Cut-out Dimensions</b></p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>User Access Width</th> <th>Side Dimension</th> </tr> </thead> <tbody> <tr> <td>7.0" (17.8 cm)</td> <td>3.25" (8.3 cm)</td> </tr> </tbody> </table>	User Access Width	Side Dimension	7.0" (17.8 cm)	3.25" (8.3 cm)
User Access Width	Side Dimension					
7.0" (17.8 cm)	3.25" (8.3 cm)					
<p>Visit <a href="http://www.extron.com">www.extron.com</a> for Cable Cubby routing template part numbers and instructions.</p>	<p>Dimensions and cut-out templates are available online at <a href="http://www.extron.com">www.extron.com</a>.</p>					

# Installation of the Projector and Screen

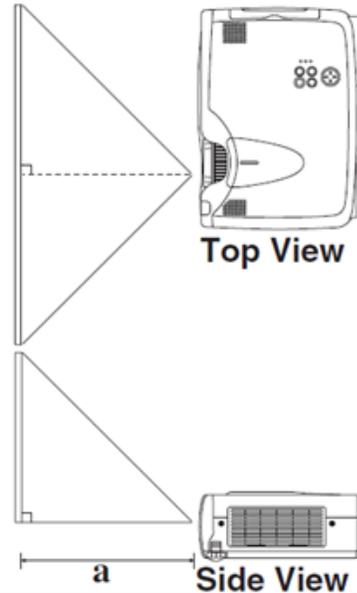
Refer to the drawing and table below for determining the screen size and projection distance.

The projection distances shown in the table below are for full size (CP-S420:800 x 600 pixels , CP-X430:1024 x 768 pixels).

a: Distance from the projector to the screen. ( $\pm 10\%$ )

**Table 1. Installation Reference**

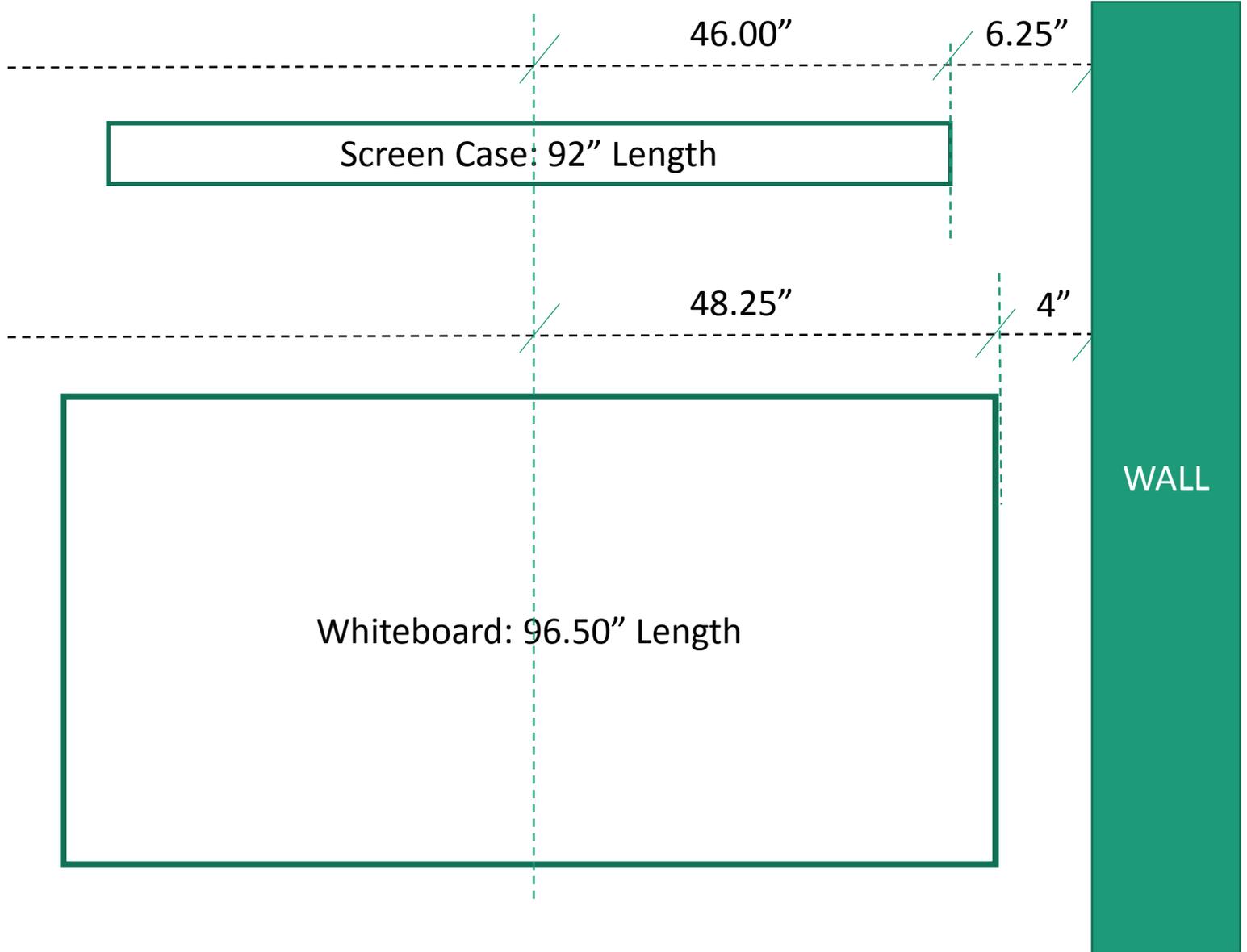
Screen size [inches (m)]	a [inches (m)]	
	Min.	Max.
40 (1.0)	62 (1.6)	82 (2.1)
60 (1.5)	94 (2.4)	123 (3.1)
80 (2.0)	127 (3.2)	164 (4.2)
100 (2.5)	160 (4.1)	205 (5.2)
120 (3.0)	192 (4.9)	246 (6.3)
150 (3.8)	241 (6.1)	308 (7.8)
200 (5.0)	323 (8.2)	411 (10.4)



Your projector's manufacturer will let you know exactly what the **throw** ratio is. You'll see a number, followed by a colon and then another number, like, 1.5:1. The first number represents 1.5 feet of **distance** from the projector to the screen. The number after the colon represents 1 foot of screen width.

Hitachi - Throw Distance Calculator - Hitachi Digital Media Group:

<http://www.hitachidigitalmedia.com/en-gb/throw-distance-calculator>



### Distance Between Screen and Projector's Lens:

Screen Width = 80"

Min Distance = 127" = 10':8" Throw Ratio = 1.6:1

Max Distance = 164" = 13':8" Throw Ratio = 2.0:1

Avg Distance = 145" = 12':1" Throw Ratio = 1.8:1