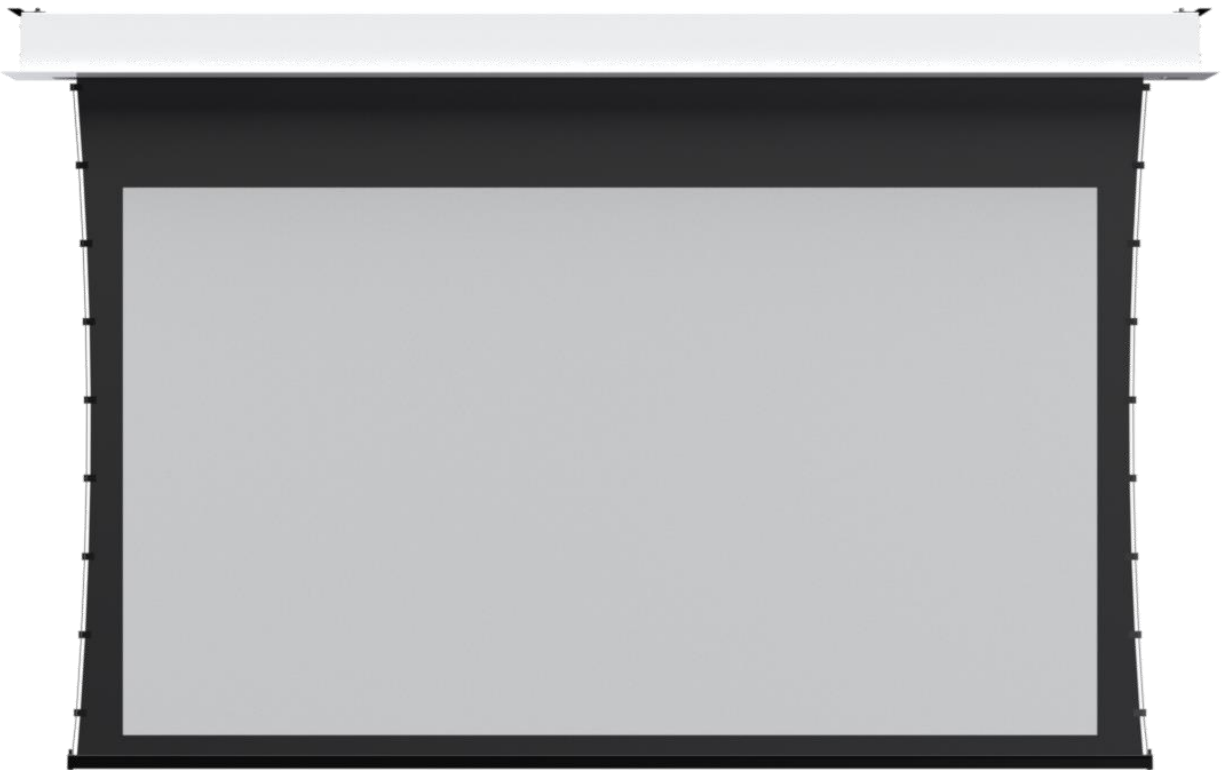


Cascade G2

Retractable, Above Ceiling Screen System



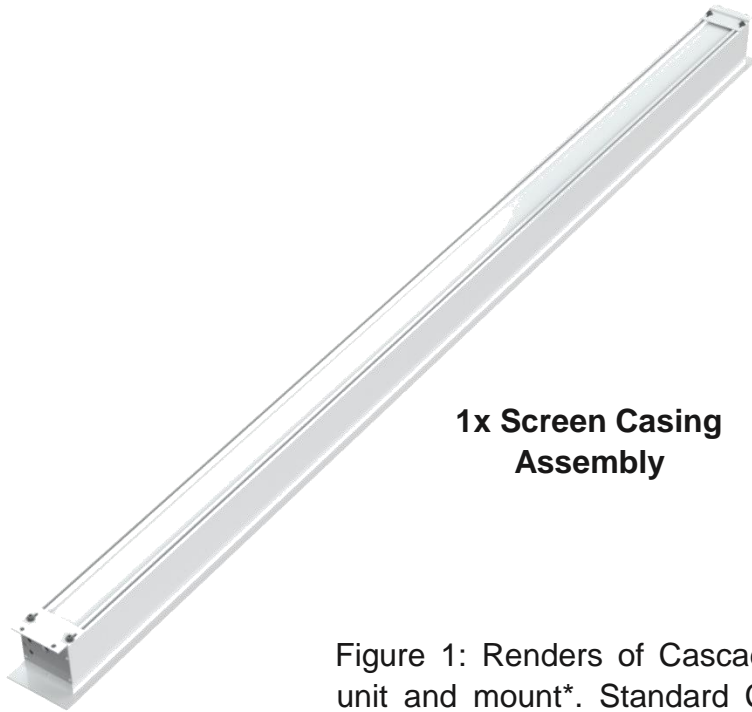
Stewart
F I L M S C R E E N

The Reference for Stunning™

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Major Components



**1x Screen Casing
Assembly**

Figure 1: Renders of Cascade G2 unit and mount*. Standard Ceiling mount shown. If ordered, ceiling mount comes preinstalled.

*Standard mount shown. Your options may vary. For full list of mounting options and detailed instruction for installation, please refer to full Owner's Manual.

Installing Fascia End Pieces and Dust Cover

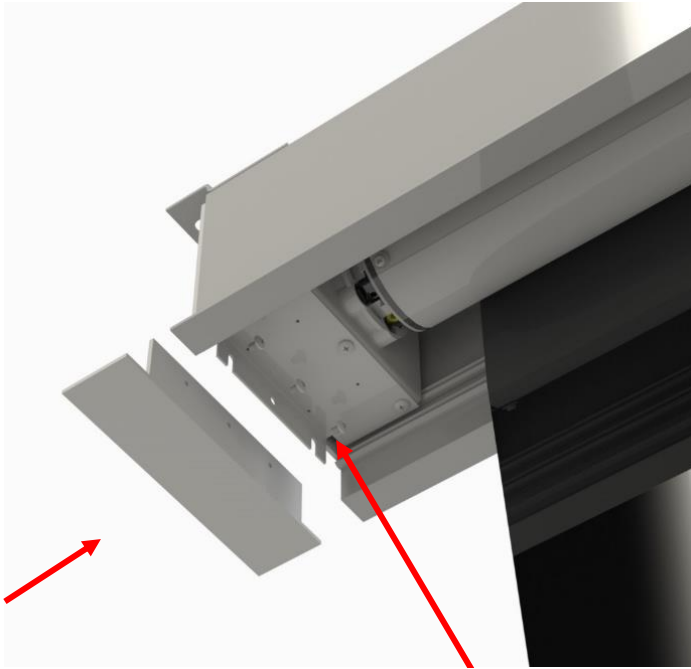


Figure 2: Render of Cascade G2 with end flange being installed.

Fascia End Pieces

The end flanges on cascade G2 are to be installed after the unit has been mounted, to hide access to the mounting holes in the situation that you are mounting with ceiling mounts. Three simple Phillips screws are screwed in, from the inside before you install the dust cover.

Dust Cover

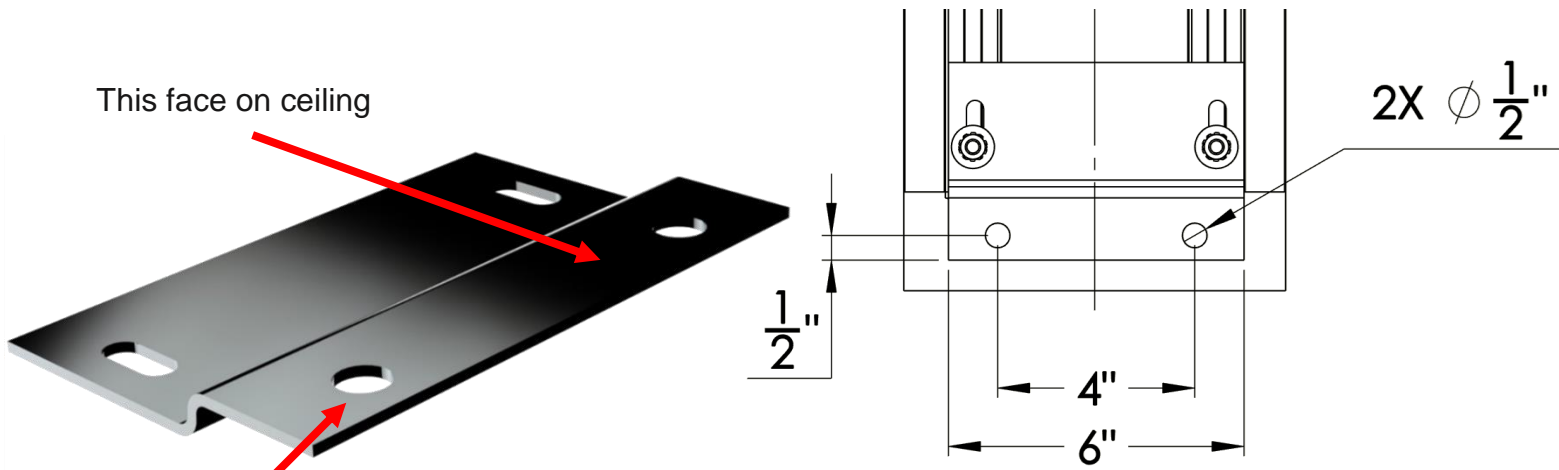
Cascade G2 has a modular design in that it allows you to build out the casing with minimum amount of fasteners. In the case for the dustcover, it requires no fasteners and can be easily installed by lifting and hooking the metal extrusion onto the main body. This allows for an ease of serviceability with an unobstructed view of the internal workings from below.



Figure 3: Render of Cascade G2 with end flange installed and dust cover being installed.

Ceiling Mount

Cascade G2 comes with two ceiling mount brackets preinstalled. This mounting option is suitable for the vast majority of Cascade G2 applications as this model is specifically designed to be mounted onto the ceiling within a pre-determined cavity. The unit itself is designed around your ceiling needs and this mounting allows for an easy, two bolt per side, installation.



Mounting Holes 2x

Figure 4: (From left) Isometric Render of mount; Mount dimensions as viewed from mounting surface of mount.

#10 x 1-1/2" minimum

Warning:
There must be structural support where the unit will be mounted.

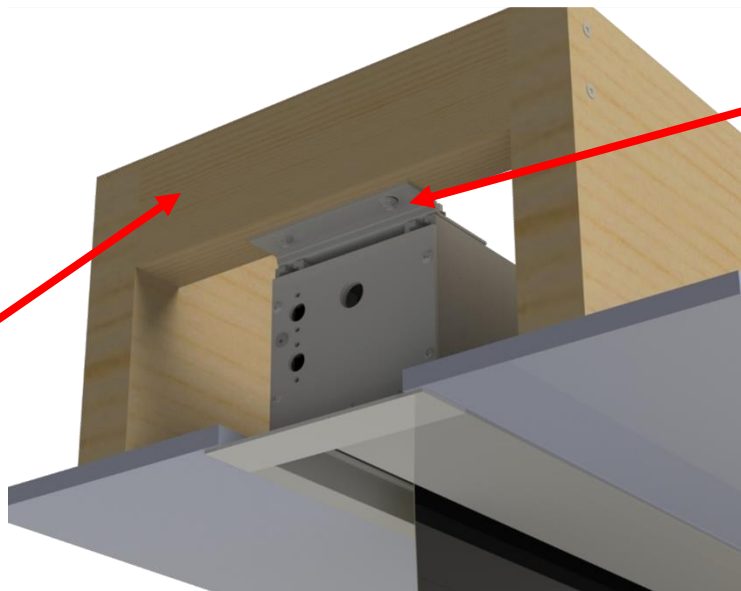


Figure 5: Cascade G2 rendering shown mounted on ceiling joist.

Ceiling Mount Configuration Details

Ceiling Mount Minimum Spacing Dimensions

Warning:

This dimension is critical for user to clear housing within opening.

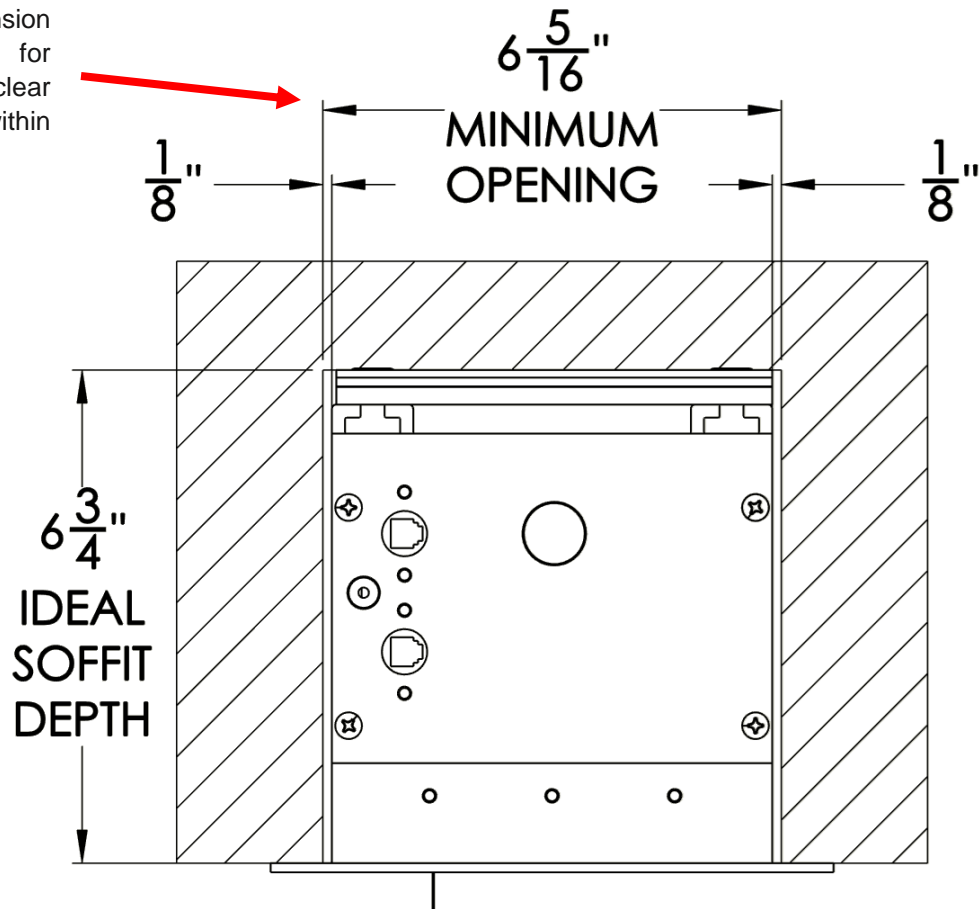


Figure 6: Drawing above shows the absolute minimum dimensions that must be respected when installing Cascade G2 to the ceiling.

Threaded Rod Mount

Cascade G2 can come optioned with two threaded rod mount brackets preinstalled. This mounting option is suitable for the customer that needs to suspend their case lower into the ceiling from a higher mounting point.

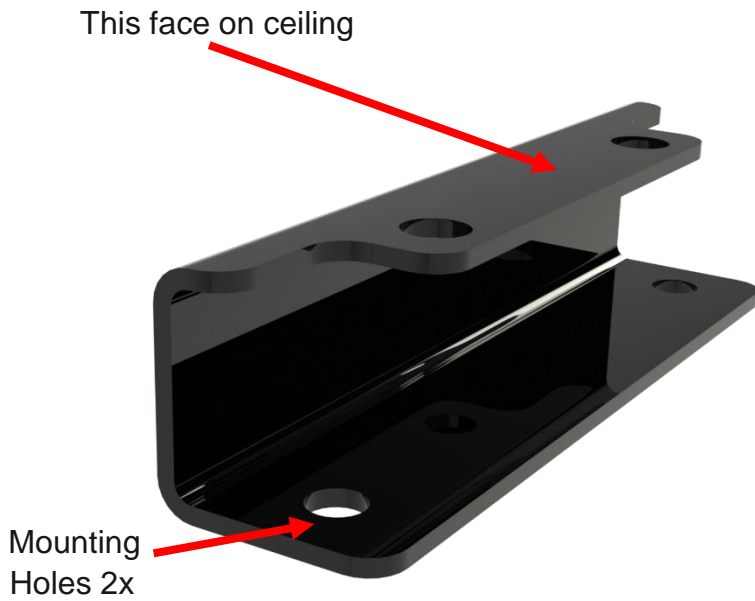


Figure 7: Threaded rod mount bracket.

The threaded rods, themselves, are not supplied by Stewart

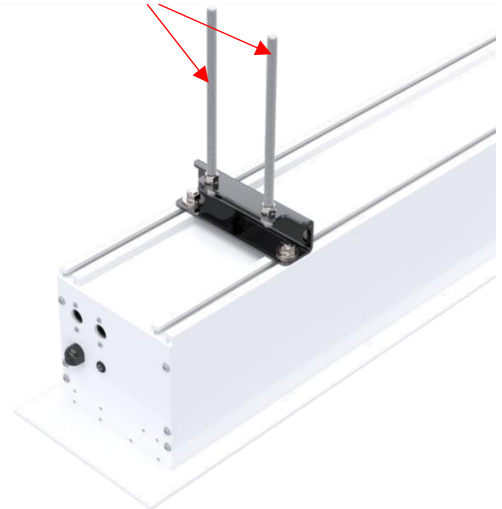


Figure 8: Render showing threaded rods installed on case.

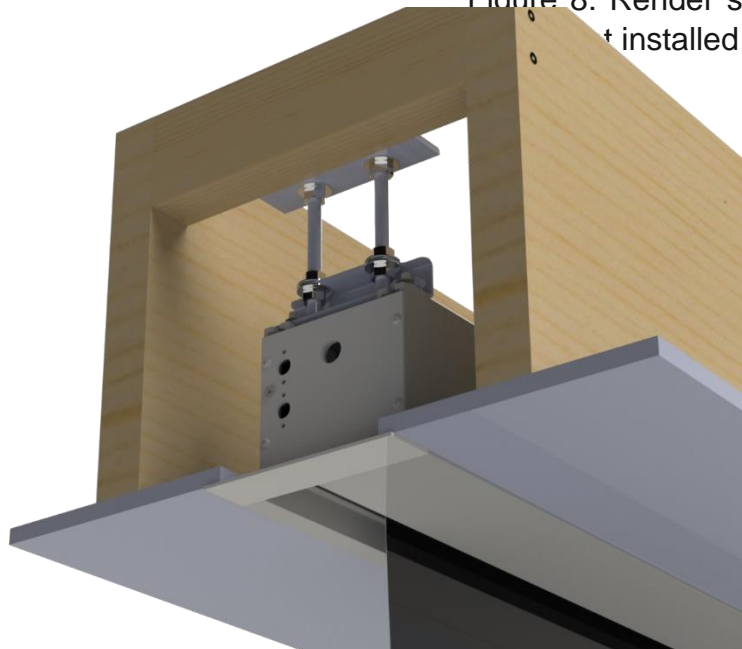


Figure 9: Cascade G2 rendering shown mounted on ceiling joist.

Threaded Rod Mount Configuration Details

Threaded Rod Mount Minimum Spacing Dimensions

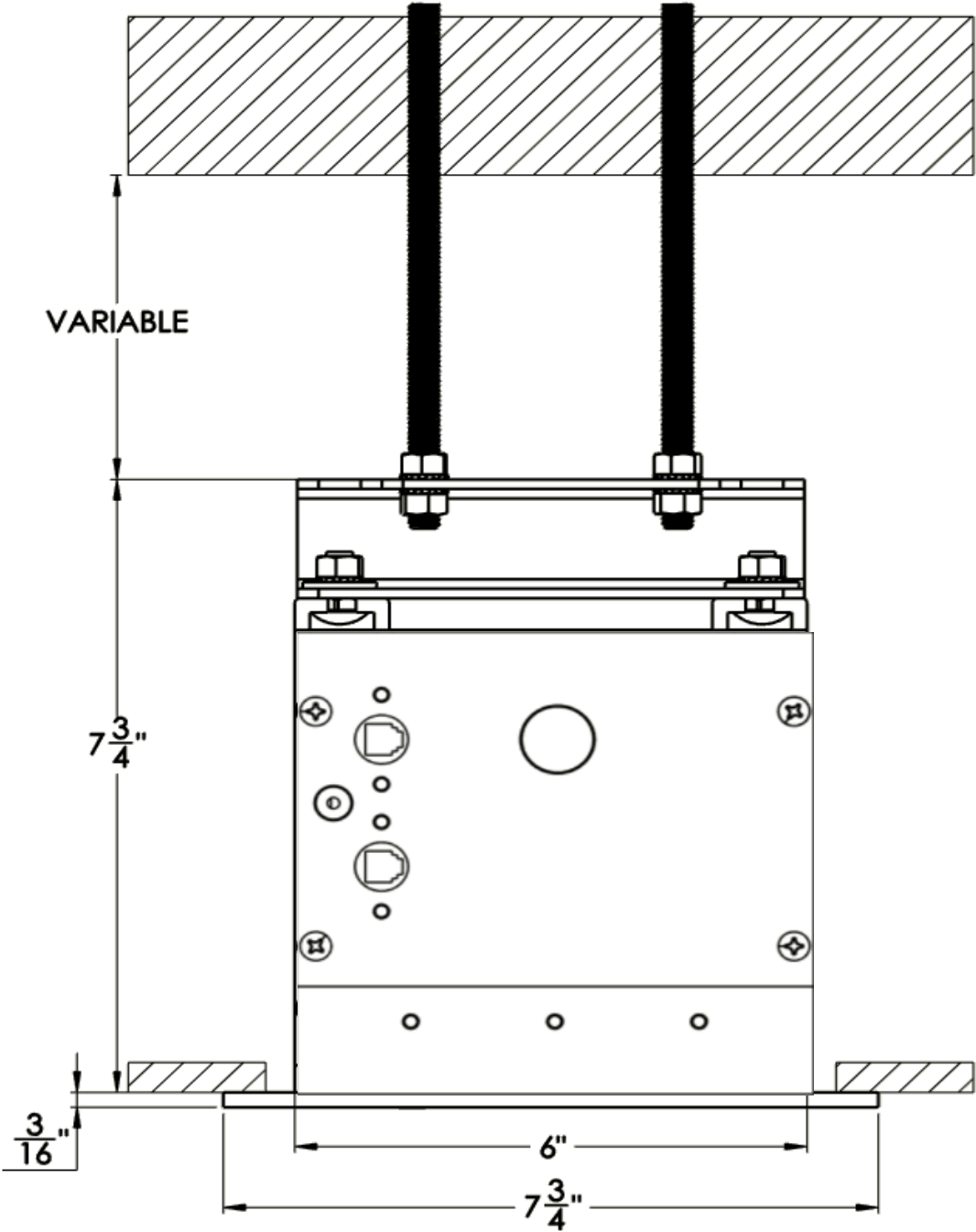


Figure 10: Drawing above shows the absolute minimum dimensions that must be respected when installing Cascade G2 to the ceiling via threaded rods.

Power & Control Ports

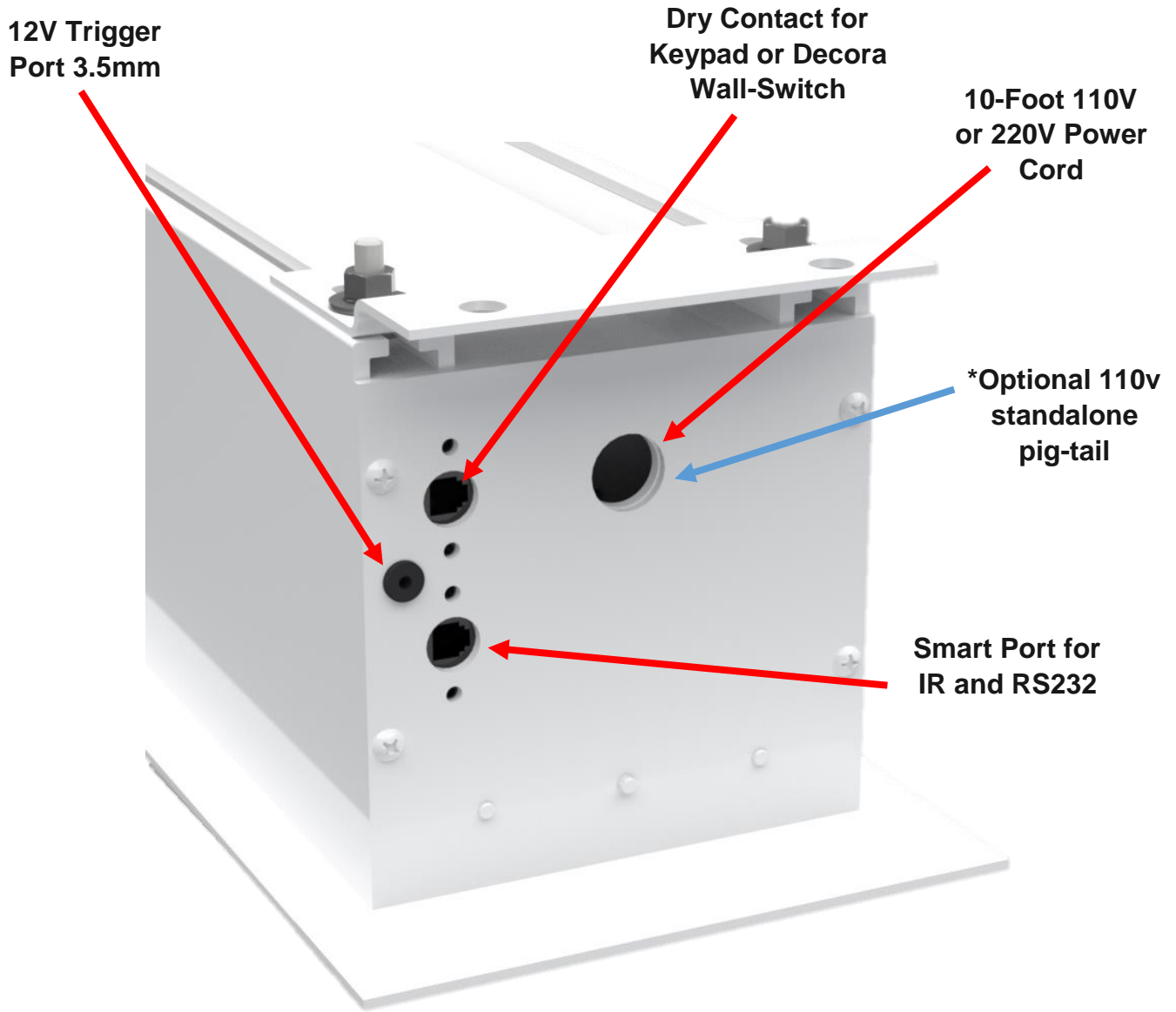


Figure 11: Side view, audience left hand side of Cascade G2 power control ports.

Wiring for Internal Intelligent Motor Control (IMC)

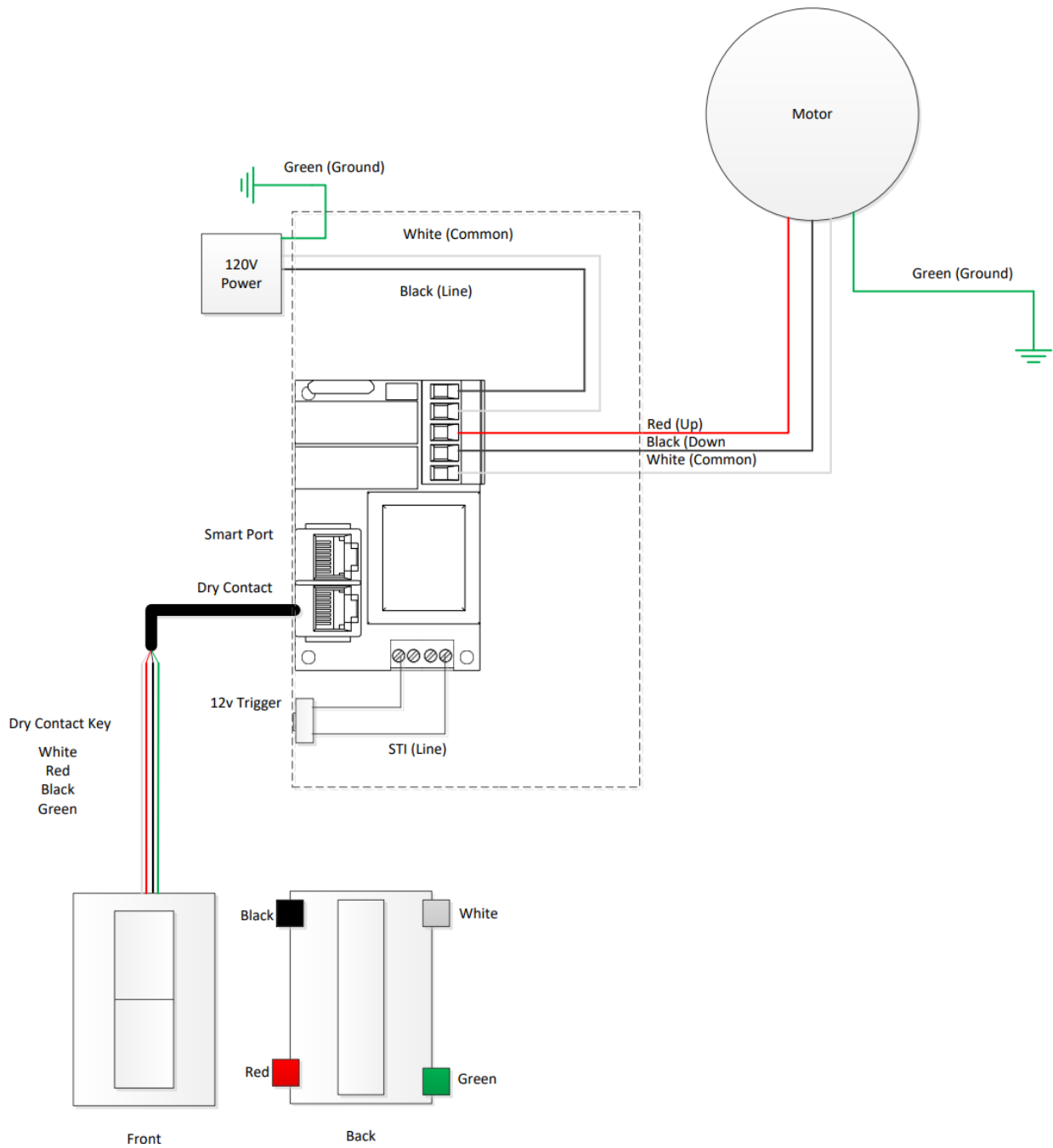


Figure 12: Cascade G2 internal wiring to IMC with standard color coded connections shown.

External IMC Control

In the scenario that an external box is needed for your interfacing needs, a single wire harness will exit the screen casing and a waterproof box will contain an IMC board within for ease of wiring from outside the case.

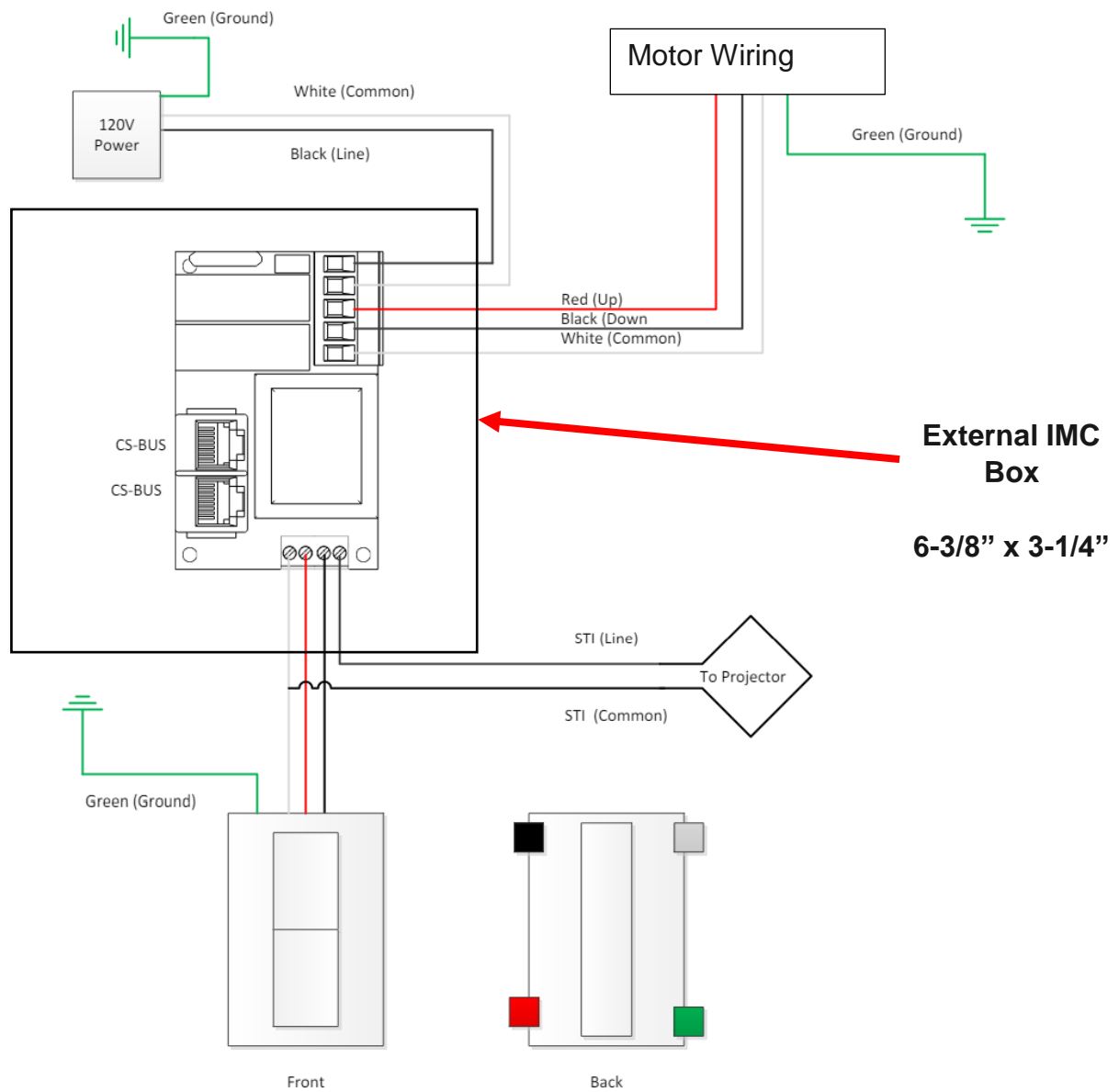


Figure 13: Cascade G2 external IMC box

IMC RJ45 Pinouts

All Stewart Filmscreen “smart port accessories” that are RJ25 will plug into the RJ45 smart port on the side of the Cascade G2 case. In the box you will find two spare RJ45 connectors. These are provided for the ease of making or extending wires for use with dry contact port. If you need to create a connection using the included RJ45 plugs, you must connect to the dry contact port. Any dry contact connections must match the RJ45 pinout diagram (see Figure 14).

8 Pin RJ45 for Low Voltage Dry Contact Connector

Pin	Signal
1	Not used
2	Not used
3	DOWN
4	UP
5	COMMON
6	TRIGGER
7	Not used
8	Not used

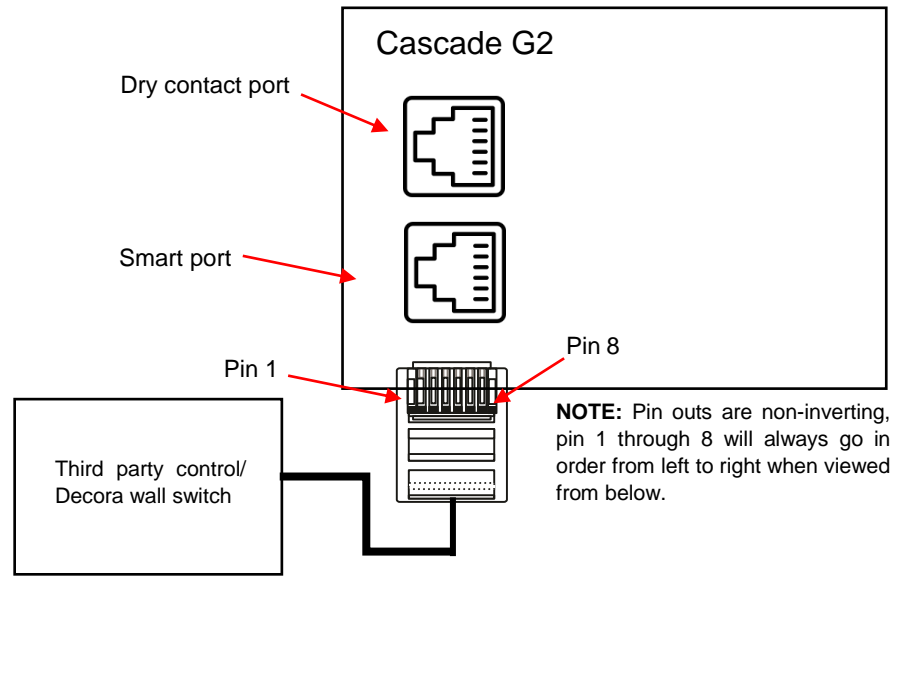


Figure 14: Cascade G2 RJ45 Pinouts

Typical Screen Sizes and Dimensions

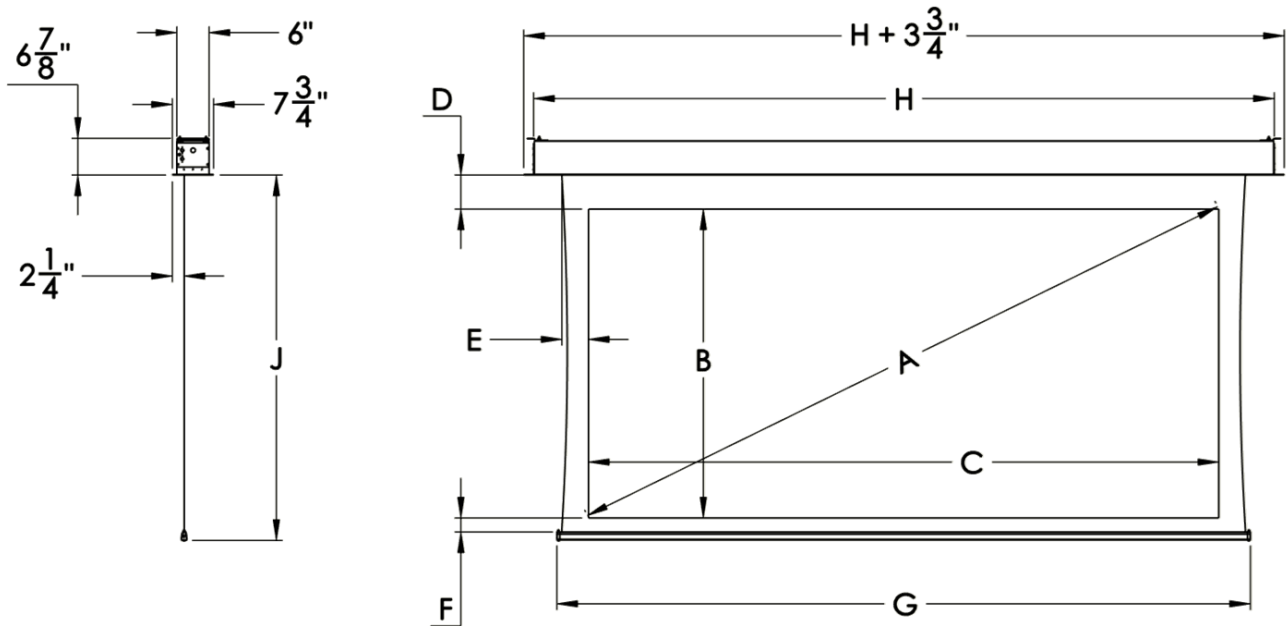


Figure 15: Basic front and side view drawing with letters for dimensions. See tables below for appropriate aspect ratio and dimensions.

16:9 Aspect Ratio

Diagonal (A)	Image Height (B)	Image Width (C)	Top Masking (D)	Side Masking (E)	Bottom Masking (F)	Batten Length (G)	Overall Length (H)	Screen Deploy (J)	Screen Weight
100"	49"	87"	12"	5"	2"	98.4"	107.75"	64.625"	85lbs
110"	54"	96"	12"	5"	2"	107.4"	116.75"	69.625"	90lbs
120"	58.75"	104.5"	12"	5"	2"	115.9"	125.25"	74.375"	95lbs
123"	60"	107"	12"	5"	2"	118.9"	127.75"	75.7"	96lbs
133"	65.25"	116"	12"	6"	2"	129.9"	138.75"	78"	102lbs
135"	66"	118"	12"	6"	2"	131.9"	140.75"	81.7"	103lbs
150"	73.5"	130.75"	12"	6"	2"	144.65"	153.5"	89.125"	115lbs
160"	78.25"	139.5"	12"	7"	2"	155.4"	164.25"	93.875"	120lbs
165"	81"	144"	12"	7"	2"	159.9"	168.75"	96.7"	125lbs
180"	88.25"	157"	12"	8"	2"	174.9"	183.75"	104"	134lbs
200"	98"	174.25"	12"	8"	2"	192.15"	201"	113.7"	148lbs
208"	102.375"	182"	12"	9"	2"	201.9"	210.75"	118"	155lbs

16:10 Aspect Ratio

Diagonal (A)	Image Height (B)	Image Width (C)	Top Masking (D)	Side Masking (E)	Bottom Masking (F)	Batten Length (G)	Overall Length (H)	Screen Deploy (J)	Screen Weight
94"	50"	80"	12"	5"	2"	91.9"	100.75"	65.7"	77lbs
109"	57.5"	92.5"	12"	5"	2"	104.4"	113.3"	73.45"	85lbs
113"	60"	96"	12"	5"	2"	107.9"	116.75"	75.7"	90lbs
123"	65"	104"	12"	6"	2"	117.9"	126.75"	80.7"	95lbs
130"	69"	110"	12"	6"	2"	123.9"	132.75"	84.625"	100lbs
137"	72.5"	116"	12"	6"	2"	129.9"	138.75"	88.125"	103lbs
164"	87"	139"	12"	7"	2"	154.39"	163.75"	102.625"	125lbs
198"	105"	168"	12"	9"	2"	187.9"	196.75"	120.7"	145lbs
210"	111.25"	178"	12"	9"	2"	197.9"	206.75"	126.95"	153lbs

2.4:1 Aspect Ratio

Diagonal (A)	Image Height (B)	Image Width (C)	Top Masking (D)	Side Masking (E)	Bottom Masking (F)	Batten Length (G)	Overall Length (H)	Screen Deploy (J)	Screen Weight
120"	46.25"	111"	12"	5"	2"	122.9"	131.75"	61.875"	96lbs
125"	48.375"	116"	12"	5"	2"	127.9"	136.75"	64"	99lbs
133"	51.25"	123"	12"	5"	2"	134.9"	143.75"	66.875"	104lbs
138"	53.375"	128"	12"	5"	2"	139.9"	148.75"	69"	108lbs
140"	54.125"	130"	12"	5"	2"	141.9"	150.75"	69.9"	110lbs
144"	55.375"	133"	12"	5"	2"	144.9"	153.75"	71"	111lbs
150"	57.875"	139"	12"	5"	2"	150.9"	159.75"	73.6"	115lbs
153"	59.125"	142"	12"	5"	2"	153.9"	162.75"	74.9"	117lbs
158"	60.875"	146"	12"	5"	2"	157.9"	166.75"	76.6"	120lbs
168"	64.625"	155"	12"	6"	2"	168.9"	177.75"	80.4"	128lbs
176"	67.875"	163"	12"	6"	2"	176.9"	185.75"	83.6"	134lbs

2.35:1 Aspect Ratio

Diagonal (A)	Image Height (B)	Image Width (C)	Top Masking (D)	Side Masking (E)	Bottom Masking (F)	Batten Length (G)	Overall Length (H)	Screen Deploy (J)	Screen Weight
115"	45"	105.75"	12"	5"	2"	117.7"	126.5"	60.7"	92lbs
120"	47.25"	111"	12"	5"	2"	122.9"	131.75"	63"	96lbs
125"	49"	115"	12"	5"	2"	126.4"	135.8"	64.625"	99lbs
130"	51.125"	120"	12"	5"	2"	131.9"	140.75"	66.9"	102lbs
133"	52"	122.5"	12"	5"	2"	133.9"	143.3"	67.625"	104lbs
138"	54"	127"	12"	5"	2"	138.4"	147.8"	69.625"	106lbs
140"	54.875"	129"	12"	5"	2"	140.9"	149.75"	70.6"	108lbs
144"	56.625"	133"	12"	5"	2"	144.9"	153.75"	72.375"	111lbs
150"	58.75"	138"	12"	5"	2"	149.4"	158.8"	74.375"	114lbs
153"	60"	141"	12"	5"	2"	152.9"	161.75"	75.625"	117lbs
158"	62.125"	146"	12"	5"	2"	157.9"	166.75"	77.8"	120lbs
168"	66"	155"	12"	6"	2"	168.9"	177.75"	82"	128lbs
176"	68.875"	162"	12"	6"	2"	175.4"	185.75"	84.6"	133lbs

Typical Shipping Dimensions

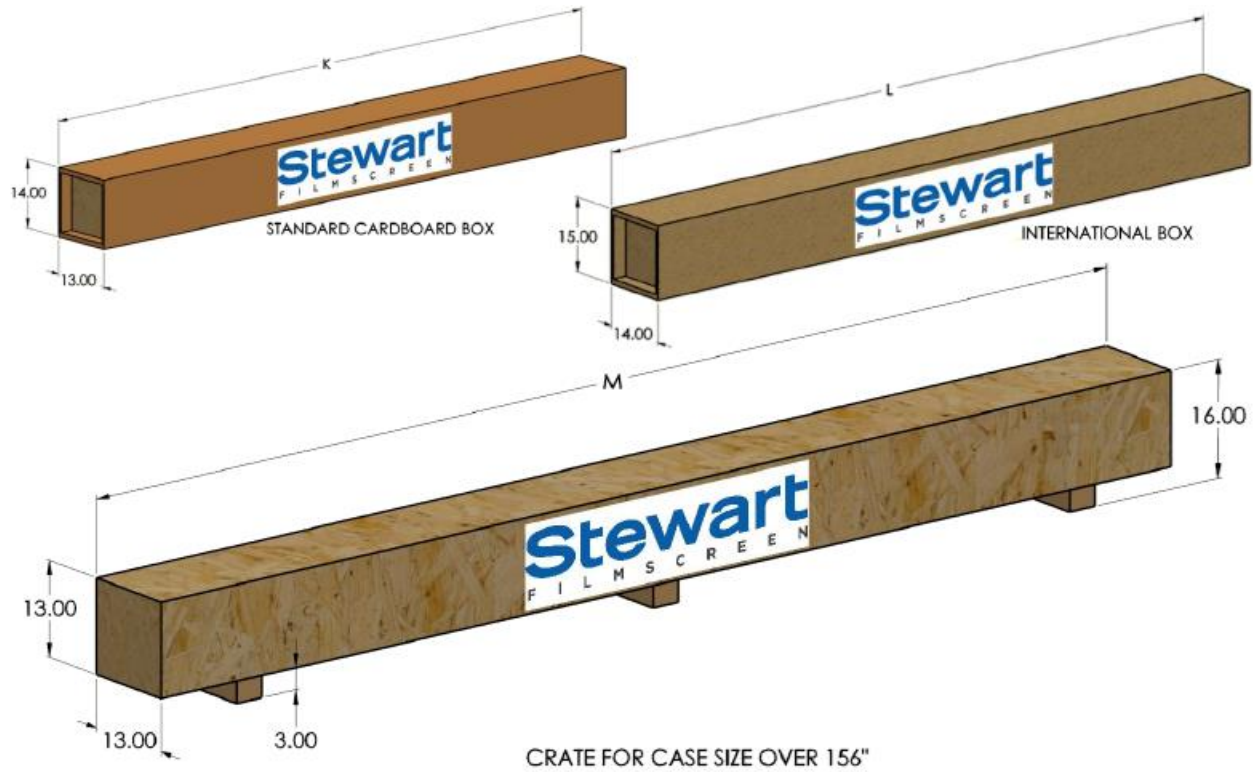


Figure 16: Isometric renders of shipping boxes and crate with letters for dimensions. See tables below for appropriate aspect ratio and dimensions.

16:9 Aspect Ratio

Diagonal	Overall Case Length	Screen Weight	Shipping Length (K)	Shipping Weight	International Shipping Length (L)	International Weight	Oversized Crate Length (M)	Oversized Crate Weight
100"	107.8"	85lbs	123.5"	110lbs	123.5"	198lbs		
110"	116.8"	90lbs	132.5"	117lbs	132.5"	213lbs		
120"	125.3"	95lbs	140.8"	124lbs	140.8"	224lbs		
123"	127.8"	96lbs	143.3"	126lbs	143.3"	230lbs		
133"	138.8"	102lbs	154.3"	134lbs	154.3"	246lbs		
135"	140.8"	103lbs	156.3"	135lbs	156.3"	247lbs		
150"	153.5"	115lbs	167"	150lbs	167"	270lbs		
160"	164.3"	120lbs					177.3"	245lbs
165"	168.5"	125lbs					181.5"	255lbs
180"	183.8"	134lbs					196.8"	270lbs
200"	201"	148lbs					214"	295lbs
208"	210"	155lbs					223"	330lbs

16:10 Aspect Ratio

Diagonal	Overall Case	Screen Weight	Shipping Length (K)	Shipping Weight	International Shipping Length (L)	International Weight	Oversized Crate Length (M)	Oversized Crate
94"	100.5"	76lbs	116"	100lbs	116"	184lbs		
109"	113.3"	85lbs	129"	111lbs	129"	203lbs		
113"	116.5"	87lbs	132"	114lbs	132"	210lbs		
123"	127"	95lbs	142.5"	124lbs	142.5"	224lbs		
130"	133"	99lbs	148.5"	130lbs	148.5"	238lbs		
137"	139"	103lbs	154.5"	135lbs	154.5"	247lbs		
164"	163.78"	125lbs					176.8"	253lbs
198"	196.75"	145lbs					210"	310lbs
210"	206.75"	153lbs					220"	320lbs

2.4:1 Aspect Ratio

Diagonal	Overall Case	Screen Weight	Shipping Length (K)	Shipping Weight	International Shipping Length (L)	International Weight	Oversized Crate Length (M)	Oversized Crate
120"	131.5"	96lbs	147"	126lbs	147"	226lbs		
125"	136.3"	99lbs	152"	130lbs	152"	230lbs		
133"	143.6"	104lbs	159"	136.5lbs	159"	245lbs		
138"	148.3"	108lbs	164"	141.5lbs	164"	250lbs		
140"	150"	110lbs	165.5"	145lbs	165.5"	257lbs		
144"	153.8"	111lbs	169.5"	146lbs	169.5"	260lbs		
150"	159.3"	115lbs					172.5"	235lbs
153"	162"	117lbs					175"	240lbs
158"	166.6"	120lbs					179.5"	245lbs
168"	177.8"	128lbs					193.5"	260lbs
176"	185.3"	134lbs					198.3"	275lbs

2.35:1 Aspect Ratio

Diagonal	Overall Case	Screen Weight	Shipping Length (K)	Shipping Weight	International Shipping Length (L)	International Weight	Oversized Crate Length (M)	Oversized Crate
115"	126.5"	92lbs	142"	121lbs	142"	221lbs		
120"	131.3"	96lbs	147"	126lbs	147"	226lbs		
125"	135.8"	99lbs	151.5"	130lbs	151.5"	230lbs		
130"	140.3"	102lbs	156"	134lbs	156"	244lbs		
133"	143.3"	104lbs	159"	136.5lbs	159"	245lbs		
138"	147.8"	106lbs	163.5"	139.5lbs	163.5"	245lbs		
140"	149.5"	108lbs	165"	140lbs	165"	255lbs		
144"	153.3"	111lbs	169"	146lbs	169"	259lbs		
150"	158.8"	114lbs					172"	235lbs
153"	161.8"	117lbs					175"	238lbs
158"	166.3"	120lbs					182"	245lbs
168"	177.3"	128lbs					193"	260lbs
176"	184.8"	133lbs					198"	270lbs