



Kestrel Stage Series

Section 1: Screen Design

1.1 What is it?

The ***Kestrel Stage Series*** is a large venue portable, free standing electric projector screen. It is ideal for Rental & Staging or other commercial (Pro AV) applications where a mobile projection screen would be required.

1.2 How does it work?

It is integrated into a sturdy wheeled stage case that has handles for easy transport and set-up. As an added value, a matching roadie flight-case with detachable velvet skirt is included to complete the arrangement. The flight-case combines with the cased-screen and skirt to create a professional-grade mobile projection display. Models also available without the ATA Stage Travel Case.

Section 2: Product Features

2.1 Characteristics

Screen Material

- GREENGUARD® Certified MaxWhite® Fiberglass (FG) with 1.1 Gain
- 180° wide viewing angle
- Active 3D, 4K Ultra HD, and HDR ready
- Not compatible with Ultra/Short-throw Projectors
- Border masking frames the projection surface
- Material has black-backing
- Available in the following diagonal sizes:
 - 110" and 131" in 4:3 format
 - 100", 120" and 150" in 16:9 format
 - 125" and 154" in 16:10 format

Design and Installation

- Rises and lowers by our motorized precision "scissor-backed" cross spring risers
- Integrated stage case
- Wheeled-design includes handles on each side for easy transport and handling
- Black drape (skirt) included for enhanced aesthetics
- Detachable wheeled flight-case with internal storage shelves
- Screen assembly attaches to the flight-case halves when set up for video mode
- Wheel locking mechanisms

Control System

- In-line UP/STOP/DOWN control switch

- Includes IR and RF remotes for long distance control
- Standard three prong power connection

Quality and Reliability

- Tubular motor allows swift operation with a superior weight tolerance and operational lifespan
- Flame Resistant: Complies with NFPA 701 Standards
- GREENGUARD® and GREENGUARD® Gold Certified
- 5-year manufacturer's warranty

2.2 Certifications



2.3 Model Numbers

Model Number	Nominal Diagonal	Aspect Ratio	Viewing Height (in)	Viewing Width (in)	Screen Material	Gain	Case Color	N.W. (lbs)	G.W. (lbs)	Packaging Dimensions (LxWxH)
FE110V-TC	110"	4:3	65.3	87.2	MaxWhite® FG	1.1	Black/Silver	141.8	178.8	97.2"x11.0"x7.9"
FE131V-TC	131"	4:3	78.5	104.6	MaxWhite® FG	1.1	Black/Silver	174.7	209.3	164.1"x12.6"x5.9"
FE100H-TC	100"	16:9	49.0	87.1	MaxWhite® FG	1.1	Black/Silver	152.8	181.5	97.6"x11.0"x7.9"
FE120H-TC	120"	16:9	58.8	104.6	MaxWhite® FG	1.1	Black/Silver	166.9	207.7	118.5"x12.6"x5.9"
FE150H-TC	150"	16:9	73.5	130.7	MaxWhite® FG	1.1	Black/Silver	188.1	230.5	142.5"x11.0"x7.9"
FE125X-TC	125"	16:10	66.0	106.0	MaxWhite® FG	1.1	Black/Silver	163.8	202.6	118.1"x11.0"x7.9"
FE154X-TC	154"	16:10	81.6	130.6	MaxWhite® FG	1.1	Black/Silver	190.3	231.6	142.5"x11.0"x7.9"

Section 3: Screen Material Specifications

3.1 Characteristics

MaxWhite® Fiberglass (FG) is fiberglass backed for added stiffness which provides the flattest possible non-tensioned screen surface with universal applications. This material provides wide viewing uniform diffusion while giving precise definition, color reproduction and black & white contrast. The screen surface has a black-backing to eliminate light penetration, is mildew resistant and washable with mild soap and water.



*** Manufacturer tip: This is an enhanced matte white product for higher end DLP/LCD projectors suitable for commercial and residential presentations.**

Features & Benefits

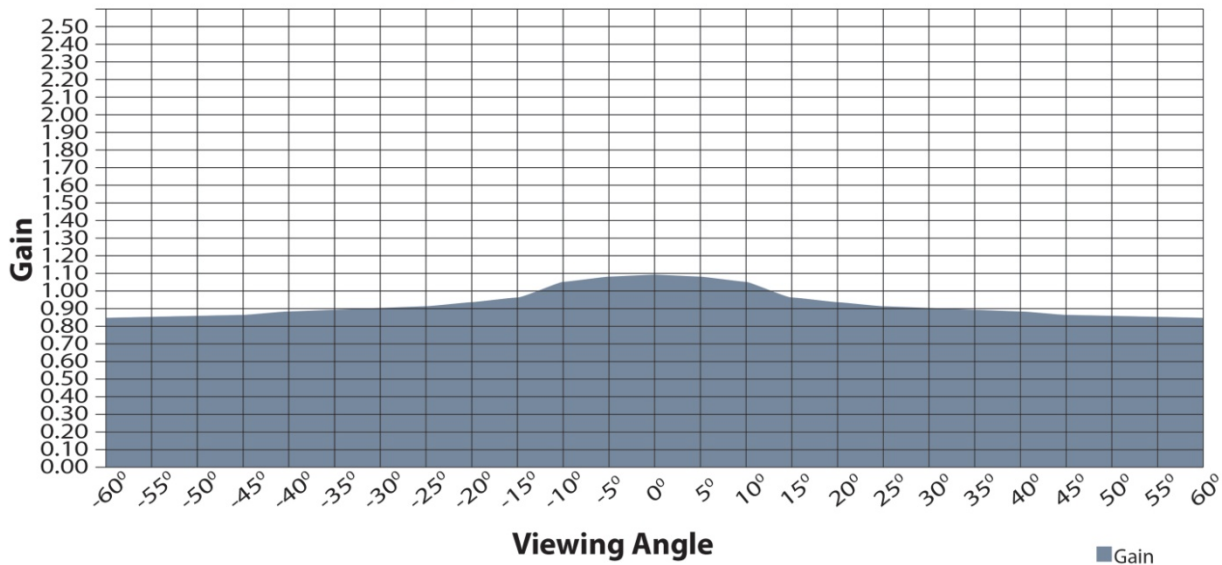
- Multi-layer weave with textured surface
- Fiberglass backing with black backing
- Gain: 1.1
- View Angle: 180° (90° ± LR)
- Not compatible with Ultra/Short-throw Projectors
- Mildew Resistant
- Active 3D, 4K Ultra HD, and HDR ready
- Surface can be cleaned with mild soap and water
- Flame Retardant: Complies with NFPA 701 Standards
- GREENGUARD® and GREENGUARD® Gold Certified | UL 2818

Specifications	
Thickness	0.36 mm (0.014")
Weight	350 g/m ²
Maximum Height	3.2 M (10 ft)
On-axis Gain	1.0
Half-Gain Angle	Does not reach half gain

3.2 Gain and Viewing Angle



On axis 0° Gain: 1.1
Viewing Cone: 180°

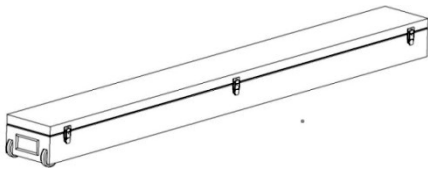
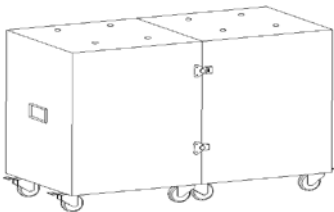
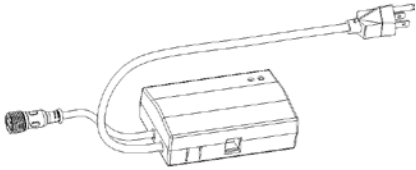


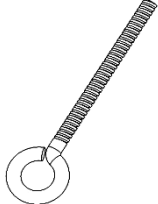
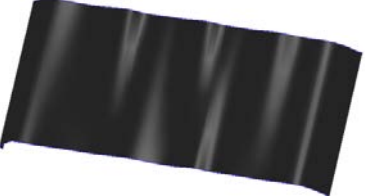


Section 4: Execution

4.1 Product Description

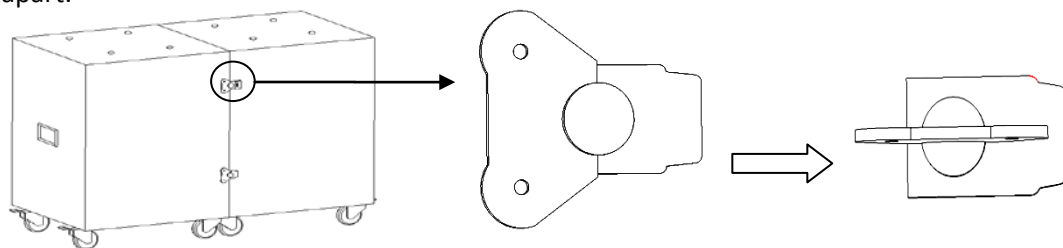
The Kestrel Stage Series is a portable electric floor rising front projection screen that is ideal for event applications used in Churches, hotels, schools, or other like venues. It includes two travel cases (one for the screen and one split-two-sided storage cart). Complete the set up by attaching the complimentary drape kit to give your presentation the finishing touch.

4.2 Product Parts and Hardware

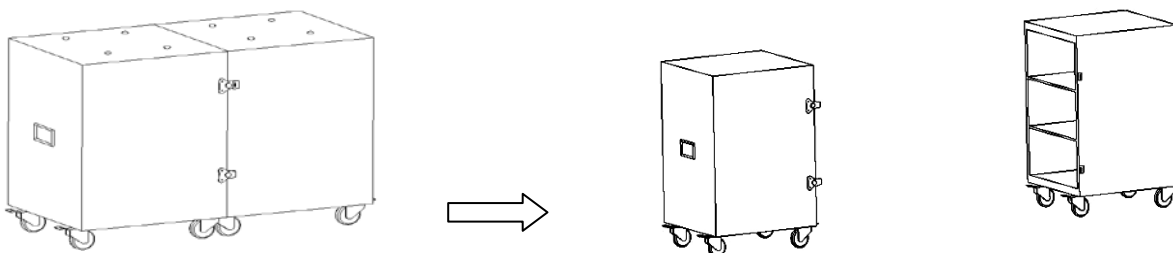
1. Kestrel Stage Motorized screen w/ travel case (main) X 1	2. Storage Cart X 1	3. Remote Control Wall Box X 1	
			
4. Double sided bolt X 4	5. Butterfly Nut X 4	6. Ring-bolt X 1	7. Curtain fabric X 1
			

4.3 Product Assembly and Operation

1. Unlatch: Lift the butterfly locks and rotate them 90 degrees. Then, split the case open by pulling both sides apart.

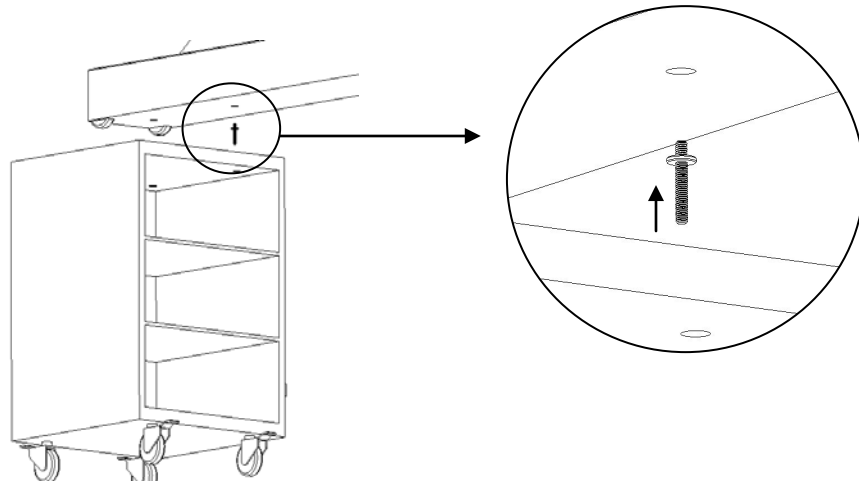


Note: Distance the two parts of the storage-box (item 2) to the corresponding length of the Kestrel’s case. Then proceed to step 2.

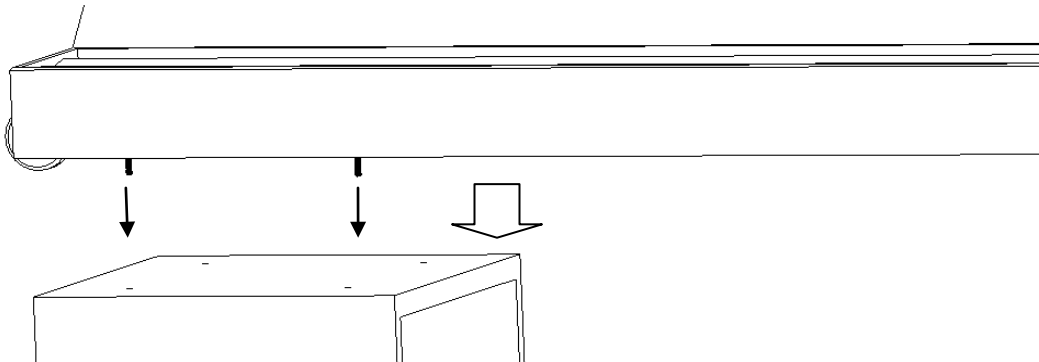


2. Insert the shorter side of the double sided bolts (Item 4) into the bottom of the motorized screen's carry case as shown in the figure below. There should be two bolts (item 4) inserted into each bottom side of the travel case of the motorized screen's main case. Be careful to not over-tighten the bolt to avoid damaging the threading in the screen's carry case.

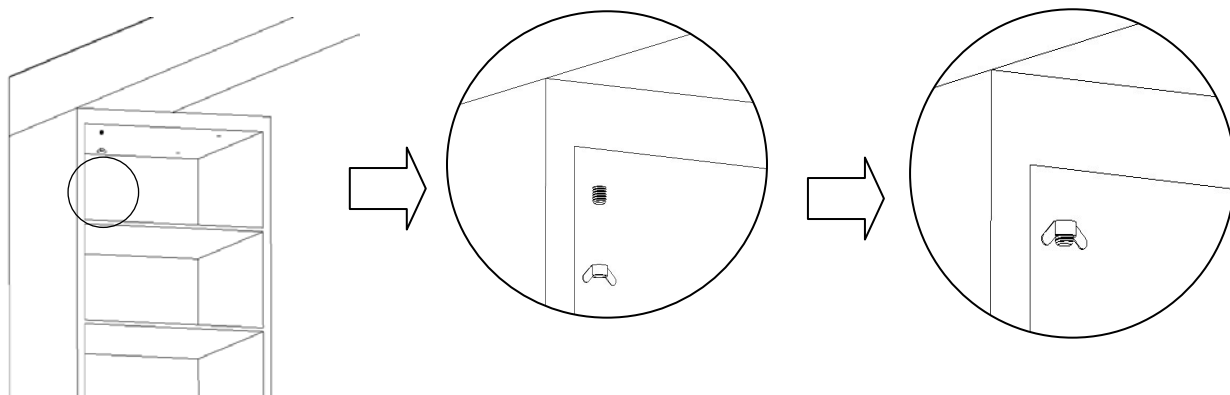
Safety precaution: We recommend that two people lift and mount the screen onto the cart.

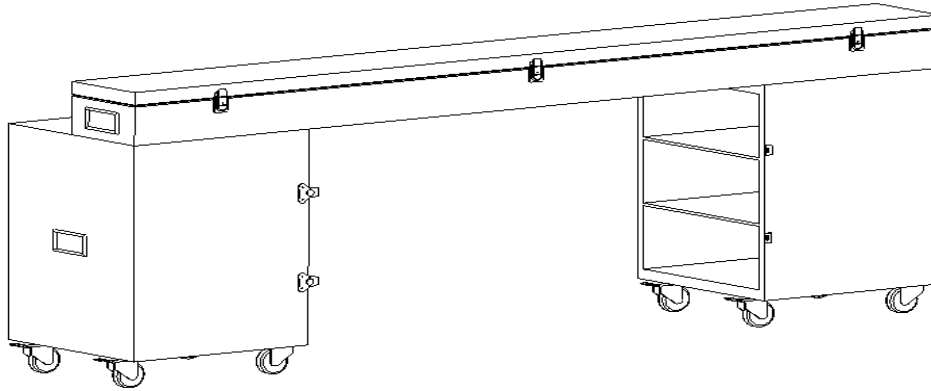


3. Carefully place the main screen's carry case on top (facing the front) of the two separate carts by inserting the longer side of the bolts in to the top front holes of the storage carts (item 2) as shown below.

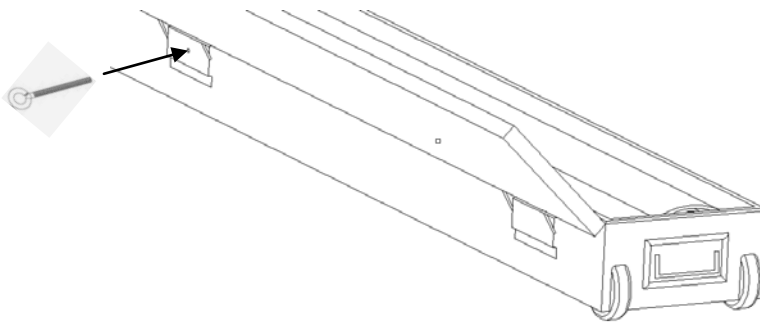


4. Using the provided butterfly nuts, tighten the bolts to secure the screen's carry case to the carts as shown in the figures below. Be careful to not over-tighten the butterfly nuts to avoid damage to the threading in the screen's carry case.

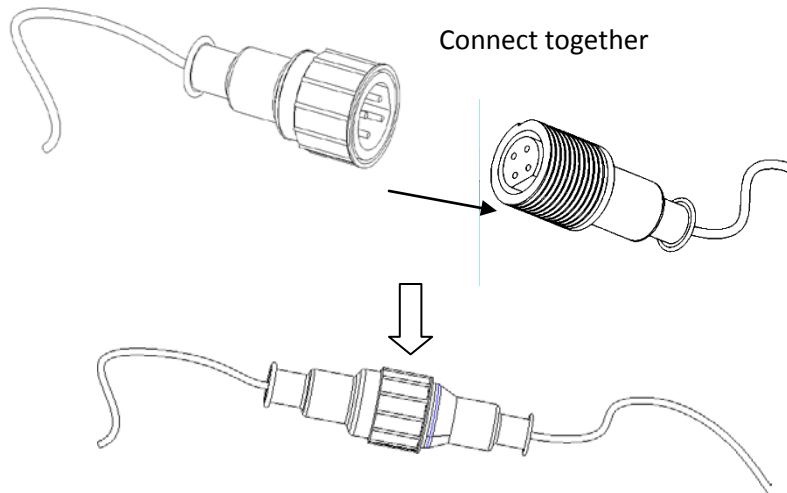
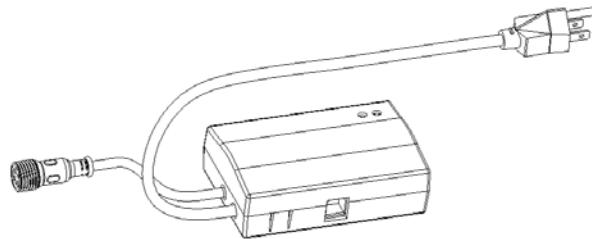




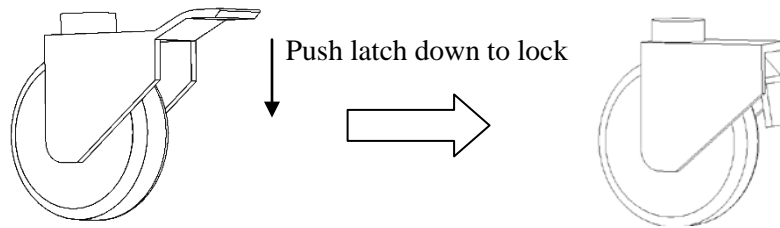
- 5. Insert the ring bolt into the indicated hole on the back of the main travel case to help avoid damage to the cover hinges.



- 6. Connect the power cable and control box (item3)

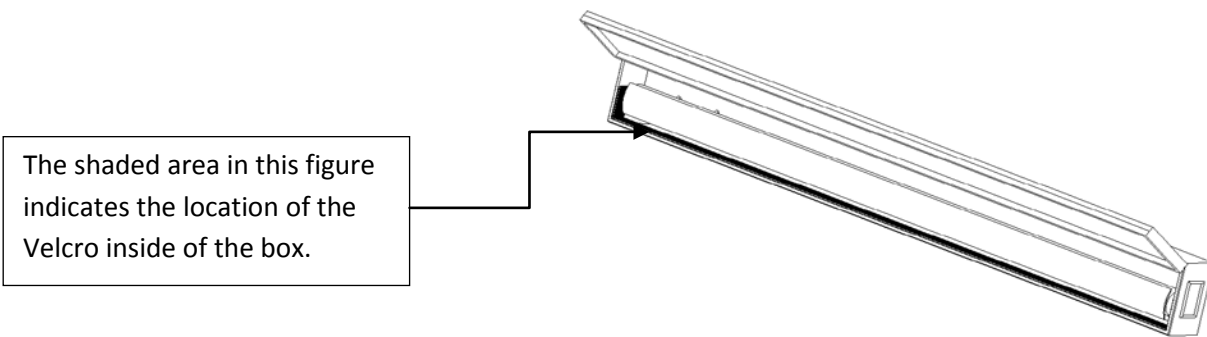


7. Lock / unlock the wheel:


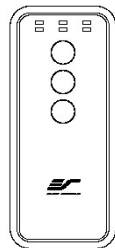

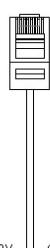


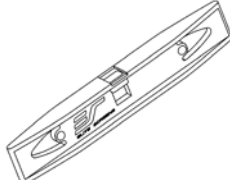


8. Affix the top edge (Velcro) of the curtain to the inner edges (front, left and right side edges) of the storage case.

Note: The curtain will stick to the Velcro inside of the case.



4.4 Accessories

<p>A. IR Remote</p> 	<p>B. RF Remote</p> 	<p>C. 3-way Wall Switch</p> 	<p>D. 5-12 volt trigger cable</p>  <p>Red 12V Green 0V</p>
<p>E. IR extended "eye" receiver</p> 	<p>F. AAA batteries</p> 	<p>G. Bubble leveler</p> 	

4.5 Screen Control System

Electric Current information: The screen operates on AC110V @ 60 Hz

1. Plug the screen’s power cord into a power outlet.
2. Once the screen has power, you’ll be able to control it using any of the 4 methods described below.

4 Ways to Control your Kestrel Stage Series

1. **IR remote control (Item A) and IR “Eye” Receiver (Item E):** The IR remote control (fig.1) requires line-of-sight to the IR sensor. The IR “eye” receiver must be connected to the Remote Control Wall box in order for the IR remote control to function. The IR “Eye” Receiver plugs directly into the screen’s RJ-45 input (fig.2).

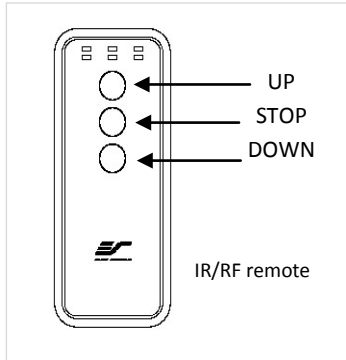


Fig.1

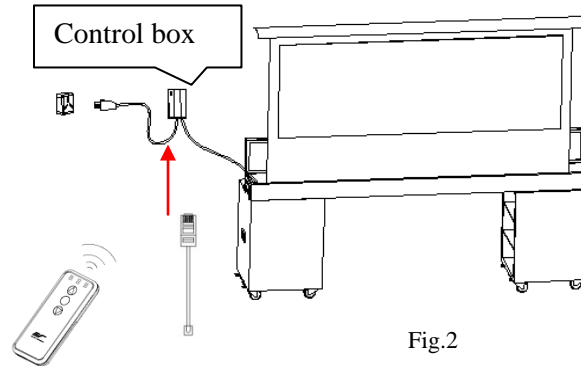


Fig.2

2. **RF Remote Control (Item B):** The radio waves eliminate the need for a direct line of sight with a range of 100 feet.
3. **3-Way Wall Switch (Item C, Fig 3):** The 3-way wall switch manually controls the screens up/stop/down button by connecting directly into the screen’s RJ-45 port.

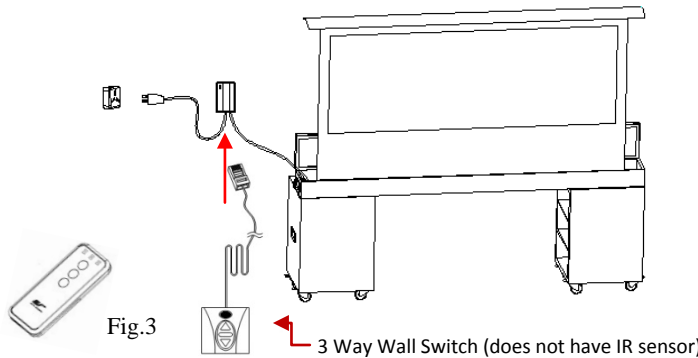


Fig.3

3 Way Wall Switch (does not have IR sensor)

4. **5-12 volt trigger (Item D, Fig 4):** The built-in 5-12V trigger input allows your screen to synchronize its drop & rise with the projector’s power cycle. The screen deploys when the projector powers up and will retract when the projector powers down. The 5-12 volt RJ45 cable connects to your projector’s trigger output via a separate cable that may or may not be provided by the manufacturer of the projector. The trigger feature will not work without an output cable from the projector, but it can be tested by connecting the Red (+) and Green (-) cable to a 9-volt battery.

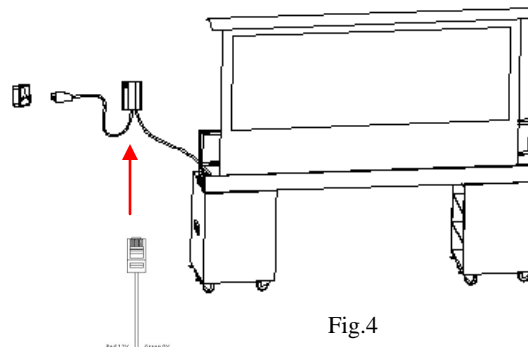


Fig.4

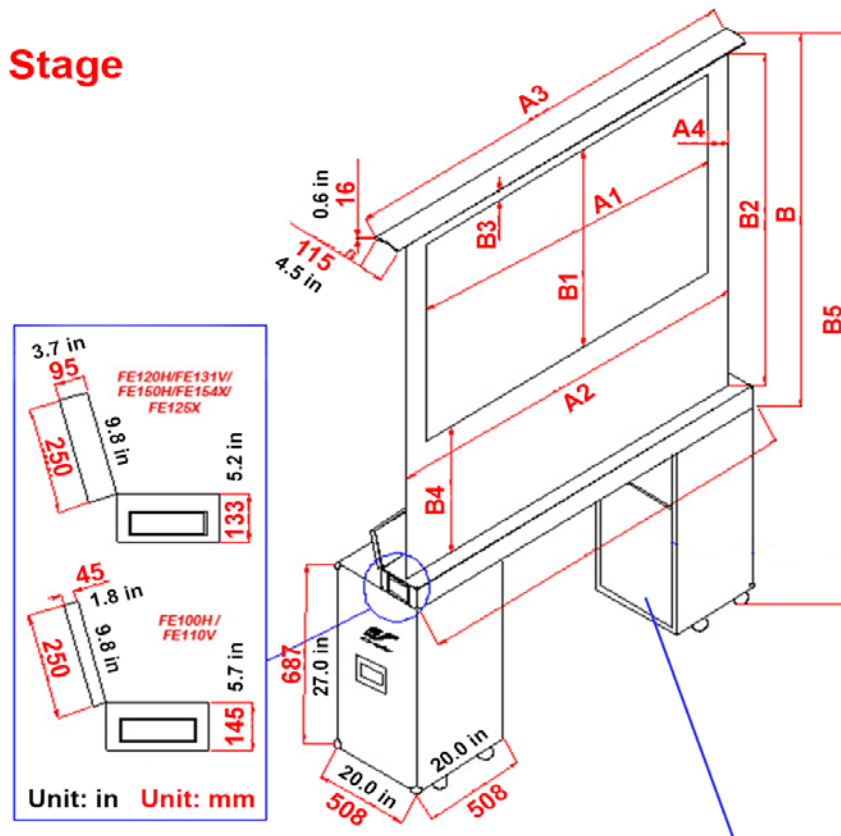
Section 5: Product Specifications

5.1 Dimensions

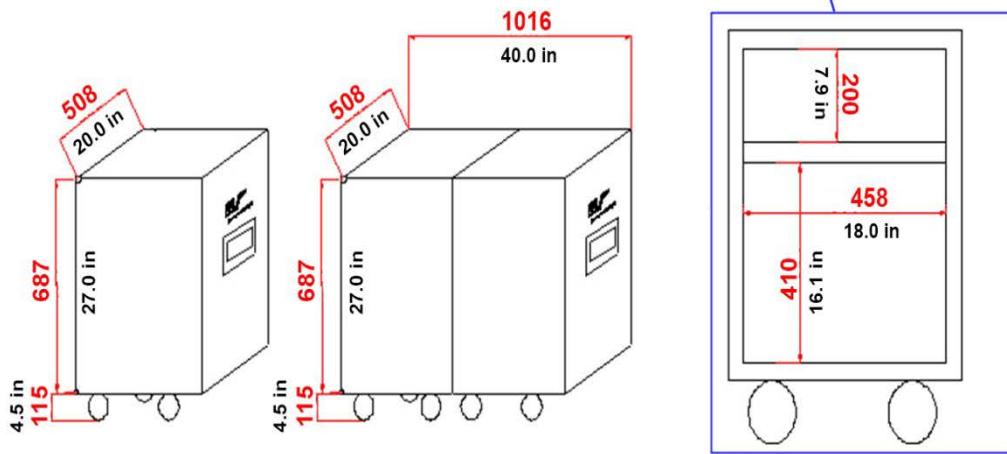
Model Number	Diag. Size	Aspect Ratio	(A)	(A1)	(A2)	(A3)	(A4)	(B)	(B1)	(B2)	(B3)	(B4)	(B5)
Unit: Inches													
FE110V-TC	110"	4:3	94.7	87.2	91.1	92.5	2.0	91.3	65.3	86.9	2.4	19.3	122.9
FE131V-TC	131"	4:3	113.6	104.6	108.5	110.5	2.0	90.5	78.5	85.5	2.4	4.7	122.1
FE100H-TC	100"	16:9	94.9	87.1	91.1	92.0	2.0	86.6	49.0	80.3	2.4	28.9	118.2
FE120H-TC	120"	16:9	113.5	104.6	108.5	111.2	2.0	86.6	58.8	80.7	2.4	19.5	118.1
FE150H-TC	150"	16:9	139.8	130.7	134.7	137.2	2.0	101.0	73.5	95.1	2.4	19.2	132.5
FE125X-TC	125"	16:10	115.0	106.0	109.9	111.2	2.0	92.7	66.0	87.8	2.4	19.4	124.3
FE154X-TC	154"	16:10	139.8	130.6	134.5	137.2	2.0	103.1	81.6	98.8	2.4	14.8	135.5
Unit: mm													
FE110V-TC	110"	4:3	3352	3087	3225	3275	70	3232	2312	3076	84	683	4351
FE131V-TC	131"	4:3	4021	3703	3841	3912	70	3204	2779	3027	84	166	4322
FE100H-TC	100"	16:9	3359	3083	3225	3257	70	3066	1735	2843	84	1023	4184
FE120H-TC	120"	16:9	4018	3703	3841	3936	70	3066	2082	2857	84	690	4181
FE150H-TC	150"	16:9	4948	4628	4768	4857	70	3575	2603	3366	84	679	4691
FE125X-TC	125"	16:10	4071	3752	3890	3936	70	3282	2336	3108	84	687	4400
FE154X-TC	154"	16:10	4948	4623	4762	4857	70	3651	2889	3498	84	525	4797

5.2 Drawings

Kestrel Stage



ATA Stage Case



5.3 Pictures

Kestrel Stage Series Angled Front View



Kestrel Stage Series with Opened ATA Stage Cases



Kestrel Stage Series with Closed ATA Stage Cases



Remote Kit



Toggle Switch Detail



Life Style



Section 6: Company Description

6.1 About EliteProAV™

EliteProAV™ is the manufacturer of projector screens for the commercial AV sales channel. It is a division of Elite Screens Inc., an ISO9001:2015 certified manufacturer that is presently the leading international brand of CE Retail projector screens with offices located worldwide.

EliteProAV™ provides an array of dedicated commercial grade projector screens for professional integrators. This includes certified products that are also compatible with building codes as well as programs, warranties and trained professionals to assist installers every step of the way. Product is available through a series of regional warehouses located in Southern California, Texas, Georgia, and Maryland. EliteProAV™ is located at 12282 Knott St. Garden Grove, CA 92841. For more information, please call 877-511-1211 or visit <http://www.eliteproav.com>.

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