

## ***KESTREL SERIES***

### **Section 1: Screen Design**

#### **1.1 What is it for?**

The *Kestrel* electric floor-rising screen is designed for environments where wall/ceiling installations are impractical. It has a stylish black gloss finish and comes fully assembled.

#### **1.2 How does it work?**

It uses a cross-rising apparatus driven by a tubular motor with superior weight tolerance and variable height settings. It uses a GREENGUARD certified fiberglass-backed matte white (**MaxWhite® FG**) projection material with RF remote control package.

### **Section 2: Product Features**

#### **2.1 Characteristics**

##### **Screen Material**

- MaxWhite® Fiberglass backed material provides uniform flatness on a flat projected image
- 180° wide viewing angle
- Active 3D, 4K Ultra HD, and HDR Ready
- Not compatible with Ultra/Short-throw Projectors
- Standard 4-side black masking borders
- Available in the following diagonal sizes:
  - 72", 84", 92" and 100" in 4:3 format
  - 72", 84", 92" and 100" in 16:9 format
  - 85", 92" and 96" in 2.35:1 format

##### **Design and Control System**

- Rises and lowers by our motorized precision "scissor-backed" cross spring risers
- Built-in Infrared and Radio Frequency receivers
- Standard Radio Frequency (RF) remote control
- Wireless 5-12 volt (model ZSP-TR02) projector trigger
- Built-in 5-12 volt trigger port (RJ-45) enables Drop/Rise operation to synchronize with the projector's power cycle
- Optional Infrared (IR) remote control and Low-voltage detachable 3-way wall switch for in-line control - **sold separately**
- Optional in-wall switch - **sold separately**

**Quality and Reliability**

- Tubular motor allows swift operation with a superior weight tolerance and operational lifespan
- AMX and CRESTRON Certified
- Flame Resistant: Complies with NFPA 701 Standards
- GREENGUARD® and GREENGUARD® Gold Certified
- 2-year Parts & Labor manufacturer's warranty
- 3-year warranty offered through ENR-G program (Education, Non-Profit, Religious and Government)

**2.2 Certifications**



**2.3 Model Numbers**

Model Number	Diag. Size	Aspect Ratio	View Height (in)	View Width (in)	Screen Material	Gain	Case Color	Net Weight (lbs)	Gross Weight (lbs)	Packaging Dimensions (LxHxW)
FE72V	72"	4:3	43.2	57.6	MaxWhite® FG	1.1	Black	48.2	61.0	70.0"x9.1"x12.3"
FE84V	84"	4:3	50.4	67.2	MaxWhite® FG	1.1	Black	52.0	66.7	85.8"x9.1"x12.3"
FE92V	92"	4:3	55.2	73.6	MaxWhite® FG	1.1	Black	54.5	69.9	90.2"x9.1"x12.3"
FE100V	100"	4:3	60.0	80.0	MaxWhite® FG	1.1	Black	67.5	77.7	92.5"x9.1"x12.3"
FE84H	84"	16:9	41.2	73.2	MaxWhite® FG	1.1	Black	63.5	69.5	88.0"x9.1"x12.3"
FE92H	92"	16:9	45.1	80.2	MaxWhite® FG	1.1	Black	67.5	77.1	92.5"x9.1"x12.3"
FE100H	100"	16:9	49.0	87.2	MaxWhite® FG	1.1	Black	70.8	74.0	99.8"x9.1"x12.3"
FE85C	85"	2.35:1	33.3	78.2	MaxWhite® FG	1.1	Black	60.5	71.2	93.2"x9.1"x12.3"
FE92C	92"	2.35:1	36.0	84.6	MaxWhite® FG	1.1	Black	61.1	75.4	100.0"x9.1"x12.3"
FE96C	96"	2.35:1	37.6	88.3	MaxWhite® FG	1.1	Black	62.4	78.3	101.0"x9.1"x12.3"
FE103C	103"	2.35:1	40.3	94.8	MaxWhite® FG	1.1	Black	51.1	79.0	107.5"x8.6"x12.1"

**Section 3: Product Features**

**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

# PRODUCT WHITE PAPER

<http://www.elitescreens.com>



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

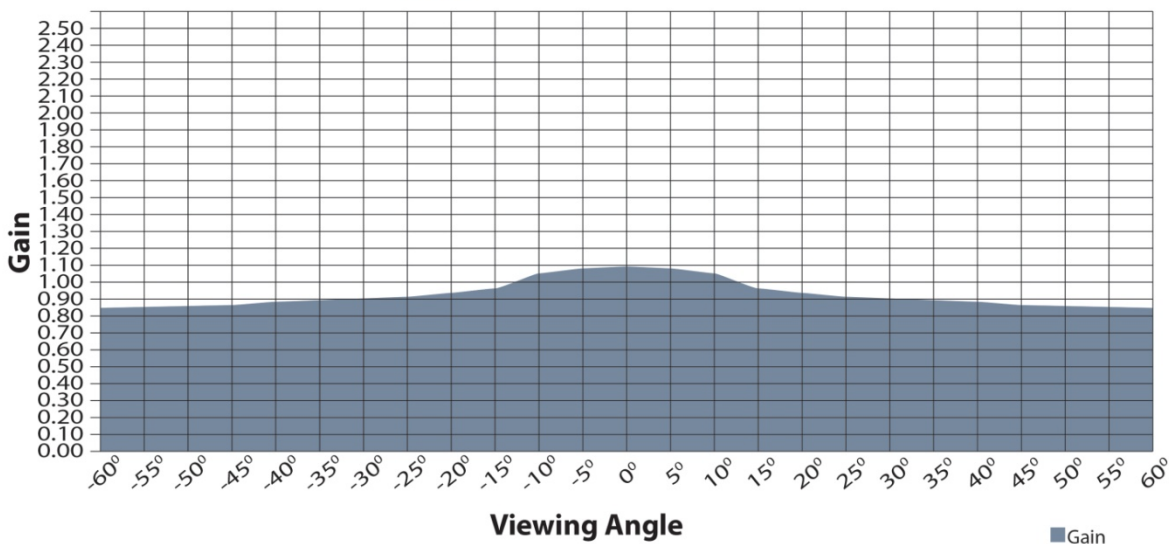
- Multi-layer weave with textured surface
- Fiberglass backing with black backing
- Gain: 1.1
- View Angle: 180° (90° ± LR)
- Not compatible with Ultra/Short-throw Projectors
- Mildew Resistant
- Active 3D, 4K Ultra HD, and HDR ready
- Surface can be cleaned with mild soap and water
- Flame Retardant: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

Specifications	
Thickness	0.36 mm
Weight	350 g/m <sup>2</sup>
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 Chart

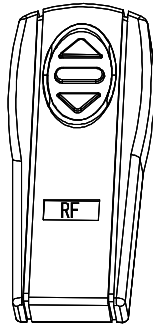


**On axis 0° Gain: 1.1**  
**Viewing Cone: 180°**



**Section 4: Execution**

**4.1 Accessories**



**Qty 1**  
Radio Frequency  
Remote Control

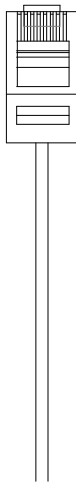


**Qty 1**  
Wireless 5-12V Trigger  
**Part# -ZSP-TR02**

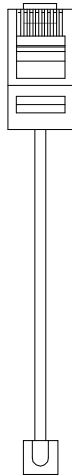


**Qty 2**  
AAA batteries

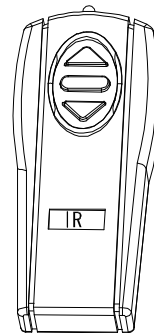
**4.2 Optional Accessories**



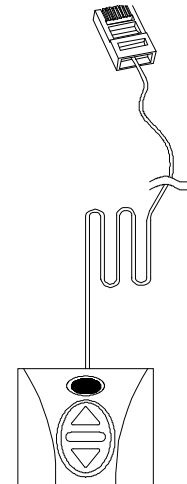
**Qty 1**  
5-12V Trigger



**Qty 1**  
IR "eye" Receiver



**Qty 1**  
Infrared  
Remote Control



**Qty 1**  
Low Voltage 3-way  
Wall Switch

**4.3 Important Safety Notes**

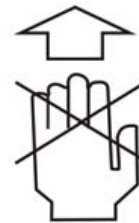
Please read this manual before use and follow the procedures specified:

- Please retain this manual for future reference.
- To avoid any damages to the screen, do not use any accessories or parts not recommended by Elite Screens.
- Handle the device carefully during transportation.
- Do not set up screen on uneven surfaces.
- To prevent electrical shock or fire; never overload the power cord, and avoid contacting the motorized components with liquids or foreign objects.

- The tubular motor equipped in the electric screen series Home 2, CineTension2, VMAX Plus3/4, Kestrel and Raptor models feature an overheat protection sensor. If the screen is consecutively brought up and down between 3-4 minutes, the motor will automatically shut-off to prevent the motor from sustaining damage through overheating. If the automatic shutoff is activated, please allow 30 minutes cool down before resuming operation.
- The Kestrel Series Screen is equipped with a strong tension cross-spring system. Please do not attempt any unnecessary repairs. It is at your own risk to open the inside cover or dismantle/work on the screen. Individual modifications to this product are prohibited and will void the user's warranty.
- When using the screen, please
  - Avoid strong wind, rain, or electrical storms.
  - No direct sunshine (UV Radiation) or moisture.
  - Keep away from fire sources and high temperature devices.
  - Turn off the power before moving this product.



Keep away from children



Keep hands clear from the closing panels

**NOTE:**

- This equipment has been tested and found to comply with the limits for a **Class B** digital device pursuant to Part 15 of the FCC Guidelines.
- The products are designed to provide reasonable protection against harmful interference in a residential/commercial installation and end user application and may radiate radio frequency energy.
- However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. The power outlet should be close to the unit and easily accessible.
2. Re-orient or relocate the receiving antenna.
3. Increase the separation between the equipment and the receiver.
4. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
5. Consult the dealer or an experienced radio/TV technician for additional help.

**4.4 Screen Operation**

**Setup:** Remove the controls and wiring from the compartment on the left side of the **Kestrel** Floor Electric Screen as shown in the pictures below.

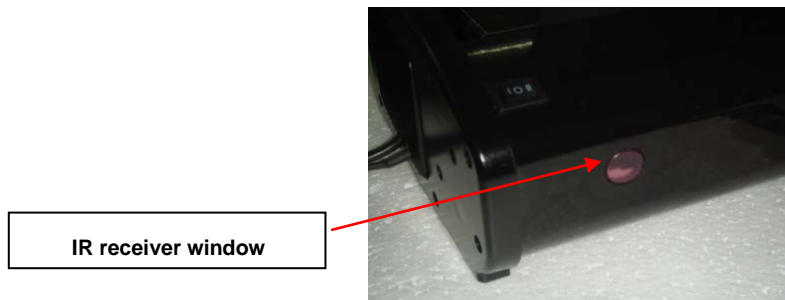


Connect the screen to the power supply and switch the power button on. Now it is ready for use.



**About the Control System:**

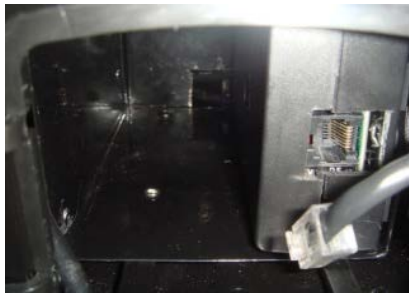
1. **Wireless 5-12V Trigger:** The ZSP-TR02 Wireless 5-12V trigger for your new Elite **Kestrel** allows your screen to synchronize its rise and drop with the projectors power cycle by connecting the output trigger, which is typically located on the back of most projectors, and the RF remote control via the ZSP-TR02 cable. The screen rises when the projector powers up and retracts when the projector powers down.
2. **RF (Radio Frequency) and Optional IR (Infrared) Remotes:** The Kestrel Series screen includes both IR and RF **receivers** that enable the consumer to use either the RF or an optional IR remote control. The RF remote is best used when the screen is concealed or long distance control is required. The RF technology therefore more versatile as it **does not** require line of to operate the screen. The optional IR **requires** a direct line of sight through the screen’s IR receiver window.



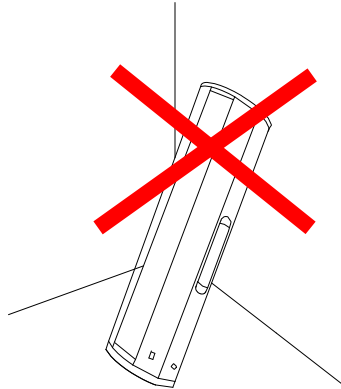


## Controlling the Kestrel Series with the optional accessories: Wired 5-12V trigger, Extended IR “eye” receiver or 3-way wall box switch-

1. **Wired 5-12V Trigger:** Connect the 5-12 volt trigger cable to your projector’s trigger output via a separate cable that may or may not be provided by the projector manufacture. The trigger feature will not work without an output cable from the projector, but it can be tested using a 9-volt battery by simply connecting the Red (+) and Green (-) cable to the 9-volt battery
2. **IR “Eye” Receiver:** The IR “eye” receiver cable provides an extension of the IR sensor should the IR receiver window on the Kestrel’s screen is concealed.
3. **3-way wall switch box:** The 3-way wall switch box allows manual control to operate the screen’s **UP/STOP/DOWN** commands.
4. **The RJ-45 input jack is located on the left side compartment which accepts the 5-12V trigger, extended IR “eye” receiver or the 3-way wall switch box.**



**Storing the screen:** Always store the screen flat horizontally. Never store the screen in a vertical position.



### Screen Maintenance

1. Always close the screen when not in use
2. Do not touch the screen surface
3. Keep away from direct sun and high/low temperatures
4. For indoor use only
5. Clean with soft water
6. Do not drop/close screen consecutively for more than 3 minutes. This is to avoid overload protection shut-off. If automatic shut-off occurs, please wait for 20-30 minutes to try again.

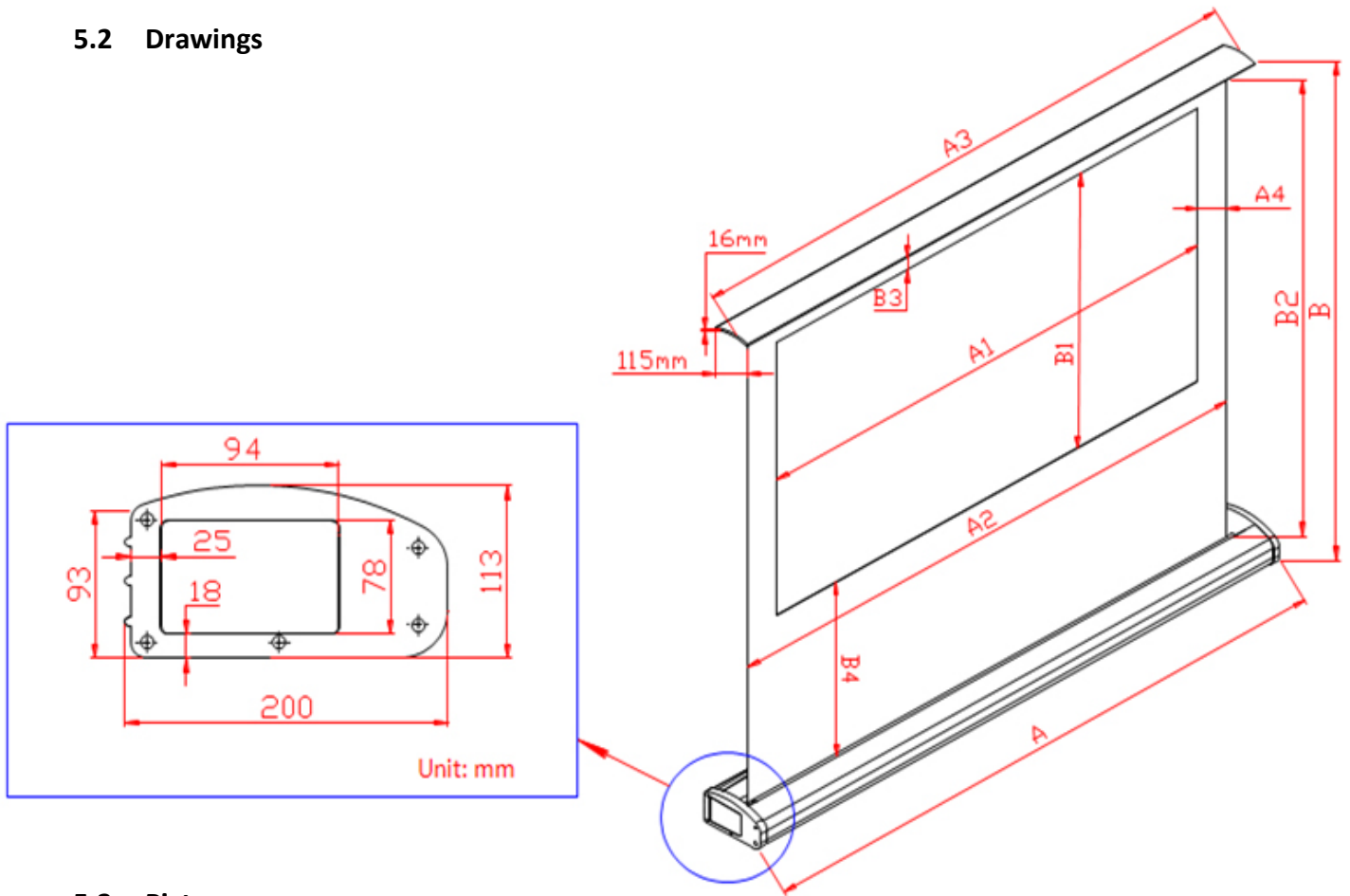
**Section 5: Product Specifications**

**5.1 Dimensions**

Models	Diag. Size	Aspect Ratio	Case Length (A)	View Width (A1)	Screen Width (A2)	Front Panel Cover (A3)	L/R Black Masking Border (A4)	Overall Height (B)	View Height (B1)	Screen Height (B2)	Top Black Masking Border (B3)	Bottom Black Border (B4)
<b>Unit: Inches</b>												
FE72V	72"	4:3	65.6	57.6	61.5	64.3	2.0	81.3	43.2	76.2	3.0	30.0
FE84V	84"	4:3	75.2	67.2	71.1	73.9	2.0	83.5	50.4	78.4	3.0	25.0
FE92V	92"	4:3	85.2	73.6	77.5	84.0	2.0	83.3	55.2	78.2	3.0	20.0
FE100V	100"	4:3	88.8	80.0	83.9	87.5	2.0	92.1	60.0	87.0	3.0	24.0
FE84H	84"	16:9	81.3	73.2	77.2	80.0	2.0	81.3	41.2	76.2	3.0	32.0
FE92H	92"	16:9	87.9	80.2	84.1	86.6	2.0	83.2	45.1	78.1	3.0	30.0
FE100H	100"	16:9	95.3	87.2	91.1	94.0	2.0	90.1	49.0	85.0	3.0	33.0
FE85C	85"	2.35:1	86.2	78.2	82.1	85.0	2.0	75.4	33.3	70.3	3.0	34.0
FE92C	92"	2.35:1	92.7	84.6	88.6	91.4	2.0	76.1	36.0	71.0	3.0	32.0
FE96C	96"	2.35:1	96.4	88.3	92.3	95.1	2.0	77.7	37.6	72.6	3.0	32.0
FE103C	103"	2.35:1	102.8	94.8	98.7	101.5	2.0	65.5	40.3	61.0	3.0	17.7
<b>Unit: mm</b>												
FE72V	72"	4:3	1666	1463	1563	1634	50	2064	1097	1935	76	762
FE84V	84"	4:3	1910	1707	1807	1878	50	2120	1280	1991	76	635
FE92V	92"	4:3	2165	1869	1969	2133	50	2115	1402	1986	76	508
FE100V	100"	4:3	2255	2032	2132	2223	50	2339	1524	2210	76	610
FE84H	84"	16:9	2064	1860	1960	2032	50	2064	1046	1935	76	813
FE92H	92"	16:9	2232	2037	2137	2200	50	2113	1146	1984	76	762
FE100H	100"	16:9	2420	2214	2314	2388	50	2288	1245	2159	76	838
FE85C	85"	2.35:1	2190	1986	2086	2158	50	1914	845	1785	76	864
FE92C	92"	2.35:1	2354	2150	2250	2322	50	1933	915	1804	76	813
FE96C	96"	2.35:1	2448	2244	2344	2416	50	1973	955	1844	76	813
FE103C	103"	2.35:1	2611	2408	2507	2578	51	1664	1024	1549	76	450



**5.2 Drawings**



**5.3 Pictures**

**Kestrel Series** Front and Back View



Screen Case - Closed



## Section 6: About Elite Screens

### 6.1 Company Description

*Elite Screens Inc.* is a California based company that specializes in making quality commercial and home-theater projection screens for the retail and custom install sales channels. Our company began as an innovative venture into the projection market by manufacturing veterans from the AV/IT industry. Elite Screens quickly established itself as an entry level commercial and home theater screen manufacturer. This was accomplished by making a quality product cost effective with a focus on mass-producing screen material, sizes and aspect ratios that were most commonly preferred by AV customers in general. We focused on uniformity with what would match the mainstream demographic while including extra features that are not usually included by other manufacturers. In time, we progressed from just retail sales into the realm of custom installer/integrator manufacture as our numerous reviews and awards will attest. We stand behind our product and are so certain of customer satisfaction with the quality of our product that we offer a 2-year manufacturer's warranty which is twice the industry standard. In our continued devotion to excellence in products and service, we are committed to implementing green practices with our production. We have adopted manufacturing methods that promote conservative regulation of our energy needs. Our simple product designs combined with the expertise of our permanent staff ensures that our entire line of products are made by experienced hands devoted to the high standards of today's audio-video consumer.

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