SAKER SERIES

Section 1: Screen Design

1.1 What is it for?

The *Saker Series* is an electric projection screen that embodies all the virtues of quality, durability, and aesthetic value. It utilizes our *MaxWhite™ Fiberglass (FG)* material which has a wide viewing angle to allow the audience to see the image from anywhere in the room. Standard features include a wireless 5-12 volt trigger, IR/RF remotes control package, and a detachable manual keypad switch.

1.2 How does it work?

The enameled aluminum casing has a stylish arcuate profile that is best suited to the aesthetics of interior design. To make installation easy, the *Saker* comes fully assembled with sliding wall mounts to ensure that it will be properly centered in every installation.

Section 2: Control System

2.1 Wireless 5-12 Volt Trigger Cable

A wireless 5-12 volt projector trigger automatically drops/rises your screen when your projector is turned on/off. Eliminates the need to wire the connection from your projector to the screen for a clean installation

2.2 IR Remote

The infrared remote control requires direct line of sight and works up to 30 feet.

2.3 RF Remote

The radio frequency remote control does not require line of sight and works up to 100 feet.

2.4 3-Way Wall Switch

The 3-Way Wall Switch is a detachable switch that connects to the RJ45 port.

Section 2: Product Features

2.1 Characteristics

Screen Material

- MaxWhite™ Fiberglass (1.1 Gain) matte white fiberglass-backed material
- Wide viewing angle and uniformly diffuses light in all directions
- Active 3D and 4K Ultra HD Ready
- Standard black masking borders and black screen backing
- Flame Retardant: Complies with NFPA 701 standards

Control System

- Internal Radio Frequency/Infrared receivers with IR, RF remotes included
- Detachable 3-way wall switch keypad for UP/STOP/DOWN manual operation
- Wireless 5-12 volt trigger included
- RJ45 port allows 3rd party control system integration

Design and Installation

- Arcuate profile aluminum enamel white case with parallel grooves
- Mounting hardware kit included for wall or ceiling installations
- Extra top black masking border for high ceiling installations
- Flush hidden wall mounts allow screen to slide horizontally for proper centering
- Plug & Play ready, no hardwire installation required

Quality and Reliability

- Synchronous motor has silent operation and low power consumption
- GREENGUARD® and GREENGUARD® Gold (UL 2818) Certified for indoor air quality emissions

2.2 Certifications

2.3 Model Numbers

Model Number	Diag. Size	Aspect Ratio	Viewing Height (in)	Viewing Width (in)	Screen Material	Gain	Case Color	N.W. (lbs)	G.W. (lbs)	Packaging Dimensions (LxWxH)
SK84XHW-E24	84"	16:9	41.2	73.2	MaxWhite™ FG	1.1	White	22.4	30.2	90.7"x6.3"x6.9"
SK100XHW-E24	100"	16:9	49.0	87.2	MaxWhite™ FG	1.1	White	26.3	34.7	106.6"x6.3"x6.7"
SK110XHW-E24	110"	16:9	53.9	95.9	MaxWhite™ FG	1.1	White	29.5	38.9	114.3"x6.3"x6.7"
SK120XHW-E20	120"	16:9	58.8	104.6	MaxWhite™ FG	1.1	White	31.8	41.2	122.3"x6.3"x6.7"
SK135XHW-E18	135"	16:9	66.2	117.7	MaxWhite™ FG	1.1	White	34.9	44.3	137.2"x6.3"x6.7"
SK150XHW-E12	150"	16:9	73.5	130.7	MaxWhite™ FG	1.1	White	50.4	66.9	148.4"x7.9"x8.5"
SK100NXW-E24	100"	16:10	53.0	84.8	MaxWhite™ FG	1.1	White	29.2	34.6	105.1"x6.3"x6.7"
SK120NXW-E12	120"	16:10	63.6	101.8	MaxWhite™ FG	1.1	White	31.2	40.3	121.3"x6.3"x6.7"
SK180XVW2-E4	180"	4:3	108.0	144.0	MaxWhite™ FG	1.1	White	57.9	75.7	160"x7.9"x8.6"
SK180XHW2-E12	180"	16:9	88.3	156.9	MaxWhite™ FG	1.1	White	60.7	79.5	174.4"x7.9"x8.6"

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)
- Mildew Resistant
- Active 3D and 4K Ultra HD 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/m2
Maximum Height	3.2 M (10 ft)
On-axis Gain	1.0
Half-Gain Angle	Does not reach half gain

3.2 Gain Chart

On axis 0° Gain: 1.1
Viewing Cone: 180°
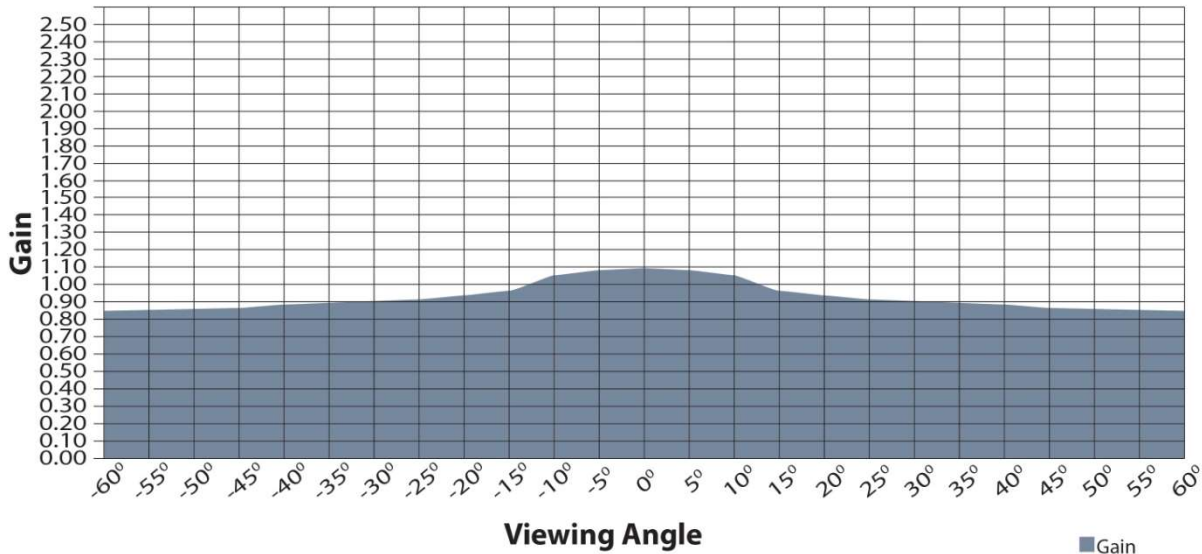
Section 4: Execution

4.1   Important Safety & Warning Precautions

Caution: The screen's Black Top Drop is already set to its maximum drop distance. There is NO extra Black Top Drop in the roller. Please be aware of this as it will void your warranty with Elite Screens. Unapproved changes or modifications (except for cutting the power cord for hardwire installations) to this unit are prohibited and will void your warranty. For more information, please contact our Technical Support Department at (877) 511-1211 Ext. 604.

- Please retain this user's guide for future reference.
- To avoid damaging the unit, do not use with any unauthorized accessories not recommended by the manufacturer.
- Handle the unit carefully during transportation to avoid any damages.
- To ensure safe and reliable operation, direct connection to a properly grounded power source is advised.
- The power outlet supplying power to the unit should be close to the unit and easily accessible.
- Do not install the unit on uneven or inclined surfaces.
- Do not put heavy objects on the power cord and position it properly to avoid creating a trip obstacle.

- Never overload the power cord to prevent an electric shock or fire due to a loose contact or a short circuit.
- There are not user serviceable parts in this unit. Do not attempt to disassemble this unit by yourself. No one except authorized technicians can open and make repairs to this unit.
- Make sure the power source this unit is connected to has a continuous power flow.
- If there is need to use an extension cord, make sure the cord has an equal rating as the appliance to avoid overheat.
- Do not handle the power plug when your hands are wet or your feet are in contact with water.

Do not use this unit under the following circumstances.
- Disconnect the power cord under the conditions of heavy rain, wind, thunder or lightning.
- Avoid direct Sunshine, rain shower and moisture.
- Keep away from fire sources and high temperature to prevent this device from overheating.
- Cut off the power supply first before transportation or maintenance.
- Fully disconnect from the power supply when the unit is not in use for a long period of time, as should be done with any other electric household appliance.
- To avoid possible injury and/or an electric shock, do not attempt to use the screen if there is obvious damage or if there are any evident broken parts.

WARNING:

The Screen's **Top Black Drop** is already set to its maximum drop distance. There is **NO** extra top black drop in the roller. Please be aware of this as it will void the limitation of your warranty.

Individual modifications to this product are prohibited and will void the warranty with the manufacturer.   Please contact Elite Screens Customer Service for any questions.

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 Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that the interference will not occur on a particular installation. If this equipment causes 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.

- ✓ **Reorient or relocate the receiving antenna of the device which may be causing the interference.**
- ✓ **Increase the separation between the screen and the device's receiver.**
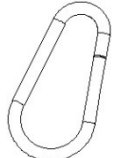- ✓ **Connect the equipment into a different power outlet other than the device.**
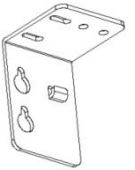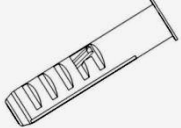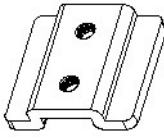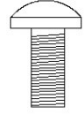
4.2   Pre-Installation

1. Carefully unpack the screen.

2. Always handle the screen in a leveled position on a clean surface.

3. In order to protect the screen from exposure to stains, keep the screen out of contact with foreign particles such as dust, sawdust, and/or liquids.

NOTE:

Regardless of the mounting method, the screen should be securely supported so that the vibration or pulling on the viewing surface will not cause the casing to become loose or fall. Included mounting screws are complimentary and may not be appropriate for all mounting surfaces. Use appropriate anchors to safely secure the screen to the mounting surface or consult with a professional installer.

4.3   Hardware Parts List

Please make sure all parts listed below are included before proceeding with the installation.				
A. Wall/Ceiling mount bracket x2	**B. M5x60 Screw x4**	**C. M12 Dry-wall anchor x4**	**D.Bracket connector x2**	**E. M5x11 Bolt Screw x4**
For 135"below For 135"-180"				
F. M5x25MM round head cross screws x2	**G. M5x30MM eyebolt screw & M5 nut x2**	**H. Hidden wall bracket x2**	**I. R18xR6x1 washer x4**	**J. Snap link x2**

4.4   Installation Instructions

For installation assistance, please consult a professional Installer. Elite Screens is not liable for faulty installations.

A. Wall Mount

I.Flush mount with wall/ceiling brackets (fixed position)

M5x11 Bolt Screw

Bracket connector (D)

Wall/Ceiling Mount
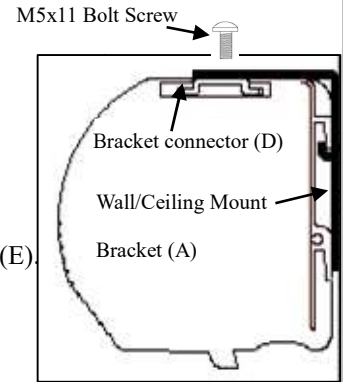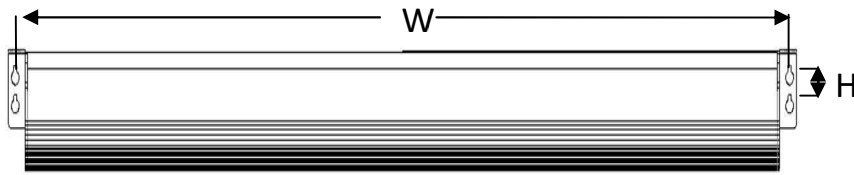
Bracket (A)

1. Begin by sliding the **bracket connector** (D) all the way to each end of the housing.

    2. Then attach it to the **wall/ceiling mount bracket** (A) with the **M5x11bolt screw** (E).

    3. Measure and mark the (WxH) distance between the two holes on each bracket.

    4. Drill a hole for each screw hole on the marked areas.

    5. Insert a **dry-wall anchor** (C) into the wall.

    6. Insert a **M5x60 Screw** (B) in each **dry-wall anchor** (C) and screw it in leaving about 1/8" of an inch.

    7. Hang the screen by aligning the end cap holes to the **M5x60 screws** (B).

W

H

Wall

M5x60 screws (B)

Dry-wall anchors (C)
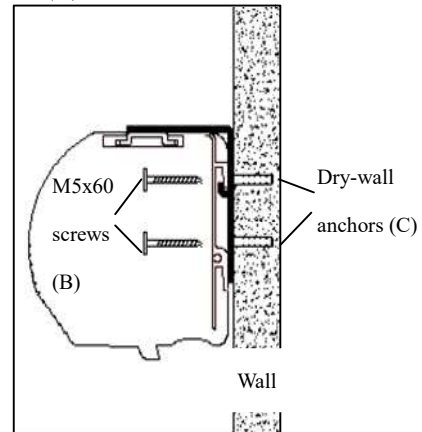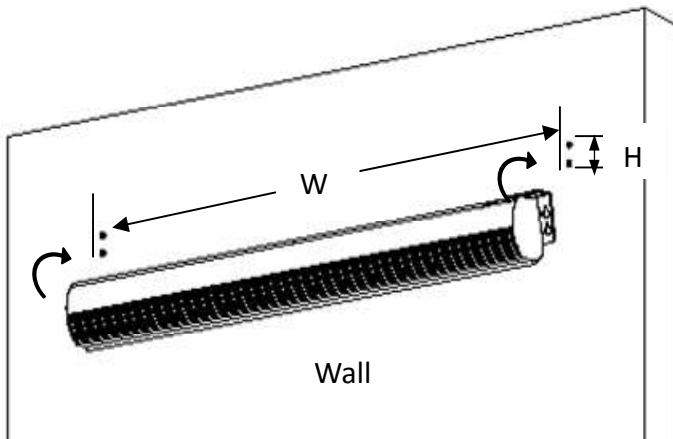
Wall

II. Flush hidden mount (movable position)

This mount method allows the screen to slide horizontally.

Front view of bracket (h)

Side view of bracket (h)
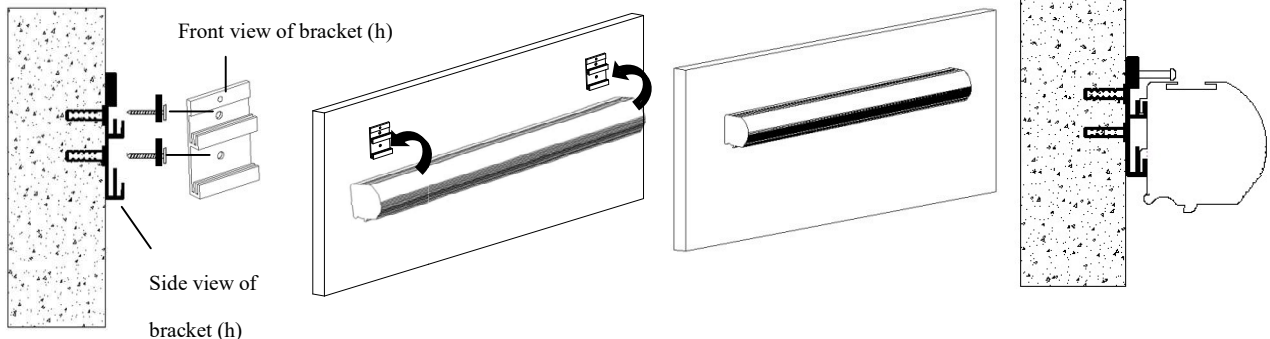
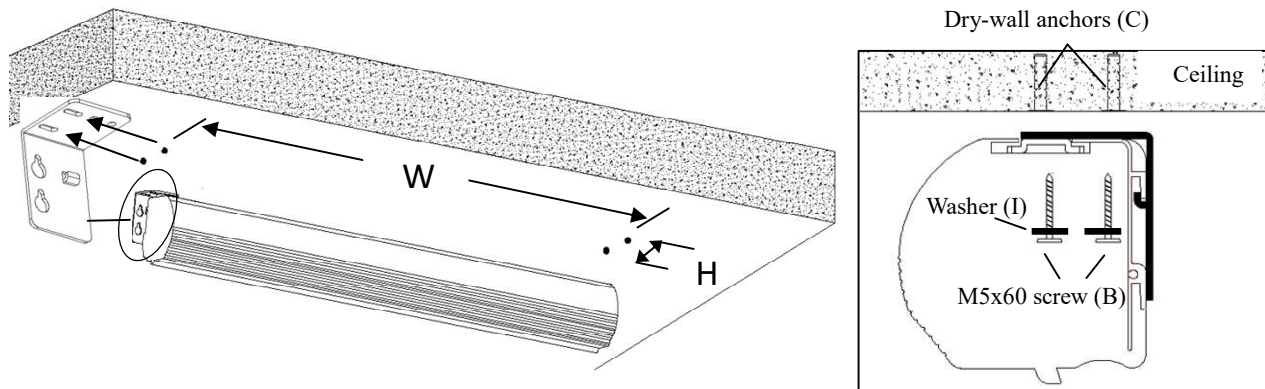1. Determine where the screen will be installed. Then, measure and mark the distance between the top and bottom screw holes from each **hidden wall mount bracket** (H).

2. Drill a hole on all marked areas and install the brackets with the **dry-wall anchor**(C), **M5x60 screw** (B), and a **washer** (I). Make sure both brackets are properly leveled.

3. Hang the screen by placing the **downward** "catch" located on the back over the brackets **upper** "catch".

4. After making sure the screen is secured, you can slide it left / right to properly center it in position.

5. Lastly, screw the **M5 screw** (F) into the upper hole of the bracket to add additional support for the screen.

B. Ceiling Mount

I. Ceiling Mount (fixed position on end caps)

NOTE: The brackets do not slide. They are designed to attach the end caps only.

1. Attach the **Wall/Ceiling mount bracket (A)** to the **Bracket connector (D)** located on top of the screen's housing (preinstalled).

2. Determine where the screen will be installed. Then, measure and mark the distance between the (WxH) locations.

3. Drill a hole on all marked areas and insert a **dry-wall anchor**(C).

4. Secure the screen by inserting the **M5x60 screw** (B) and a **washer** (I) thru the **wall/ceiling mount brackets** (A). Two or more people are required while one holds the screen in place.

II. Suspended

1. Screw the **eyebolt** (G) on the **bracket connector** (D).

2. Attach the **snap link** (J) through the **eyebolt (G)** and connect it to an eyebolt screw (not included) rated for the screen's weight.
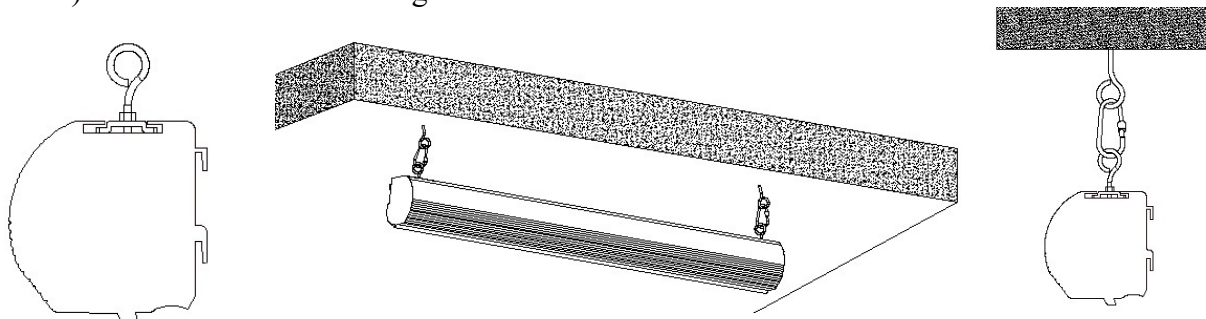
4.5 Controls and Accessories

| A. IR Remote	B. RF Remote	C. Wall switch control box	D. 5-12 volt trigger cable
			Red 12V Green 0V
E. IR extended "eye" receiver	F. Wireless 5-12v trigger cable	G. AAA batteries	H. Bubble leveler

4.6 Screen Operation

Electric Current: Depending upon region, your Elite Screen will operation 100v, 110v, or 220v voltage.

1. After ensuring the power outlet & screen are compatible (voltage), plug the power cord into the power outlet.

2. Once the screen's has power, you'll be able to control it using any of the 6 methods described below.

6 ways to control your Saker

1. *IR remote control* (**Item A, Fig 1**): The Infrared functions by direct line of sight contact with a beam range of 30 feet. Aim the IR remote at the circular window located on the left side of the screen.

UP
STOP
Fig.1
IR/RF remote
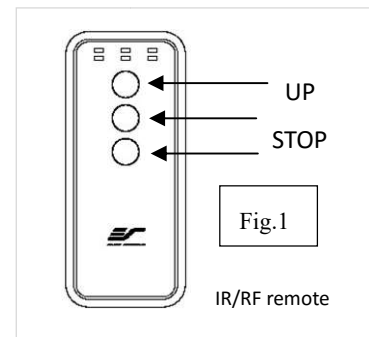
2. *IR "Eye" Receiver* (**Item E, Fig 2**): The IR "Eye" Receiver plugs directly into the screen's RJ-45 input to present a low profile line-of-sight control option for your IR remote control even in a recessed ceiling installation.

Fig.2
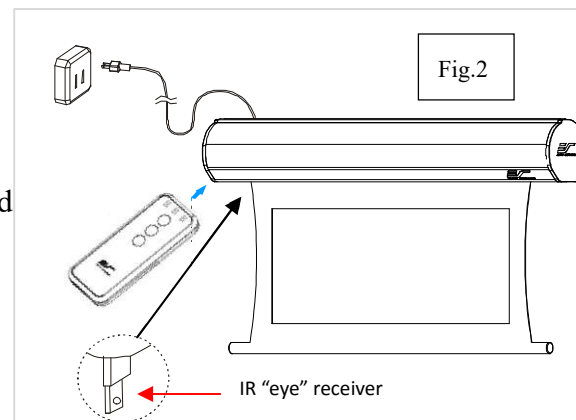
3. *RF Remote Control* (**Item B**): The radio waves eliminate the need for a direct line of sight with a range of 100 feet.

4. *3-Way Wall Switch* (**Item C, Fig 3**): The 3-way wall switch is a wall mount control box with an up/stop/down button and plugs directly into the screen's RJ-45 input.

IR "eye" receiver

Fig.3

3 Way Wall Switch

3 prong power cord

RJ45 Input

Fig.4

5-12 volt trigger cable
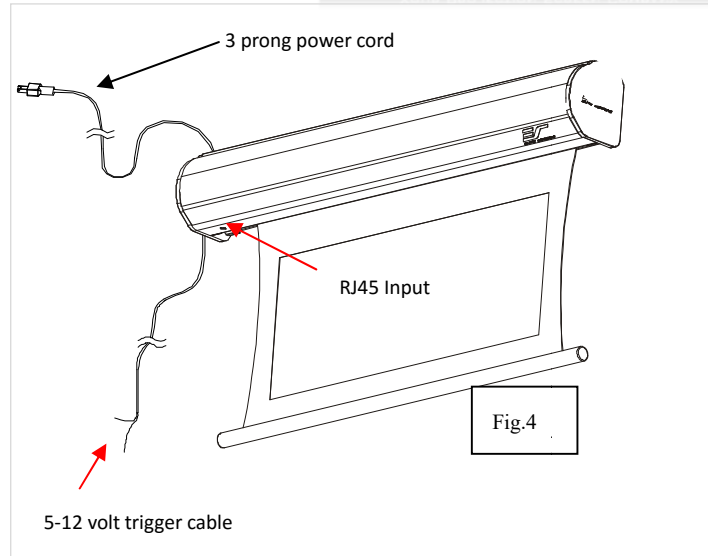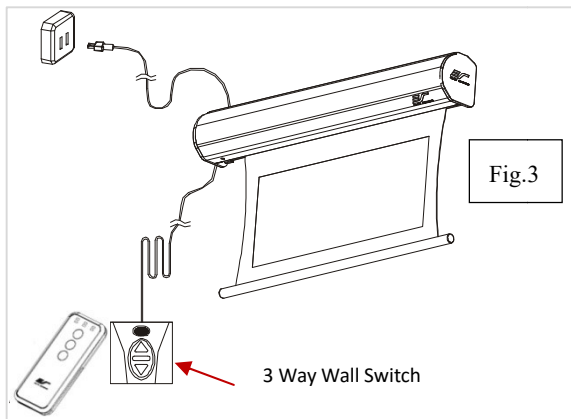
5. *5-12 volt trigger* **(Item D, Fig 4):** The built-in 5-12V trigger input allows your screen to synchronize its drop & rise with the projector's power cycle. The screen deploys when the projector powers up and will retract when the projector powers down. The 5-12 volt RJ45 cable connects to your projector's 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.

6. *Wireless 5-12 volt trigger* **(Item F, Fig 5):** The RF remote control serves as a dual purpose, independently as a handheld remote control, or in conjunction with the Wireless 5-12 volt trigger cable. The radio frequency technology can be programmed to send a wireless signal to synchronize its drop & rise with the projector's power cycle.

Here's how to set up your Wireless 5-12 volt trigger | Synchronization Instructions

Step1: Connect one end of the 3.5 mm wireless 5-12 volt trigger cable to the RF remote.

Step 2: Connect the other 3.5 mm end of the wireless 5-12 volt trigger cable to your projector

Step 3: Make sure to unplug your screen from the power outlet

Step 4: Hold the UP button on your RF remote

Step 5: While holding the UP button, plug the screen back to the power outlet

Step 6: Wait 5 seconds and then release the UP button

Step 7: Your 5-12V wireless trigger should now be activated with your screen and ready to be used and able to control your screen with your projector's power cycle

Repeat the steps again if not successful.

(Please be aware, the projector on/off cycle may take longer to fully activate. It usually takes around 20- 30seconds for full off and on cycle each time)

The back of the

DC 5-12V out

Fig 5

Wireless 5-12V

trigger cable

UP

Stop

Down
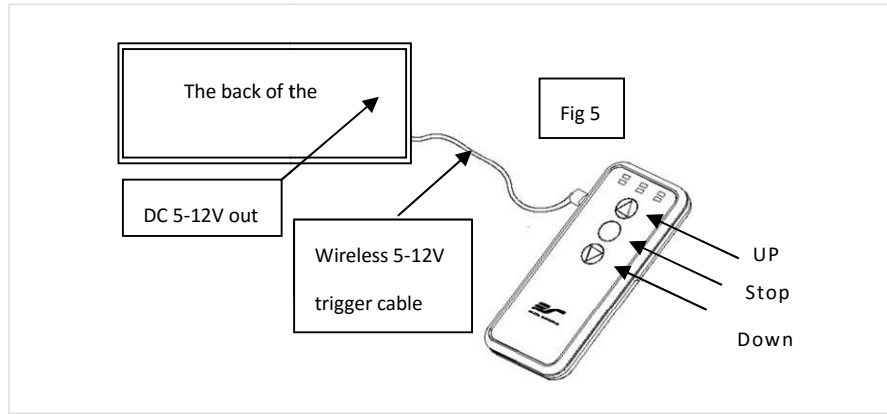
Section 5: Product Specifications

5.1 Dimensions

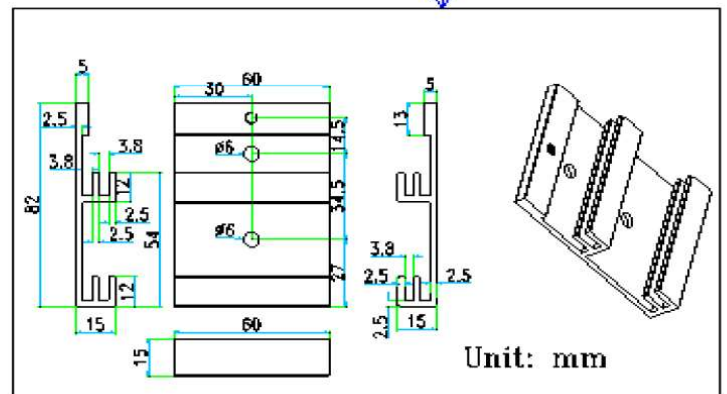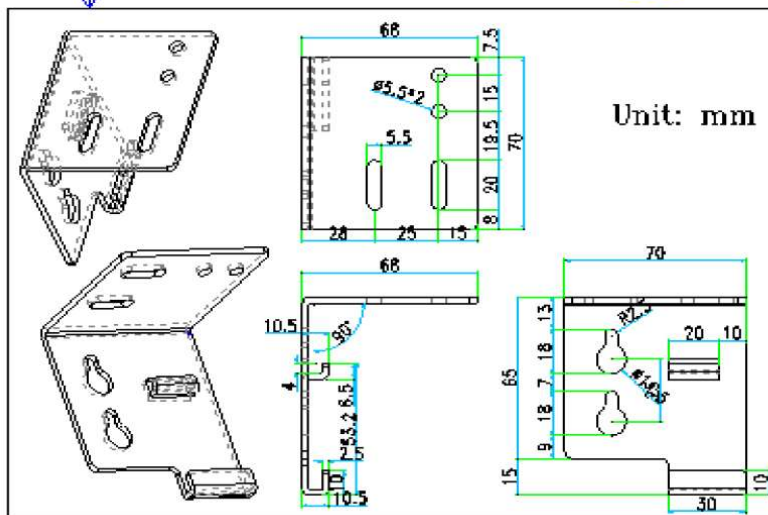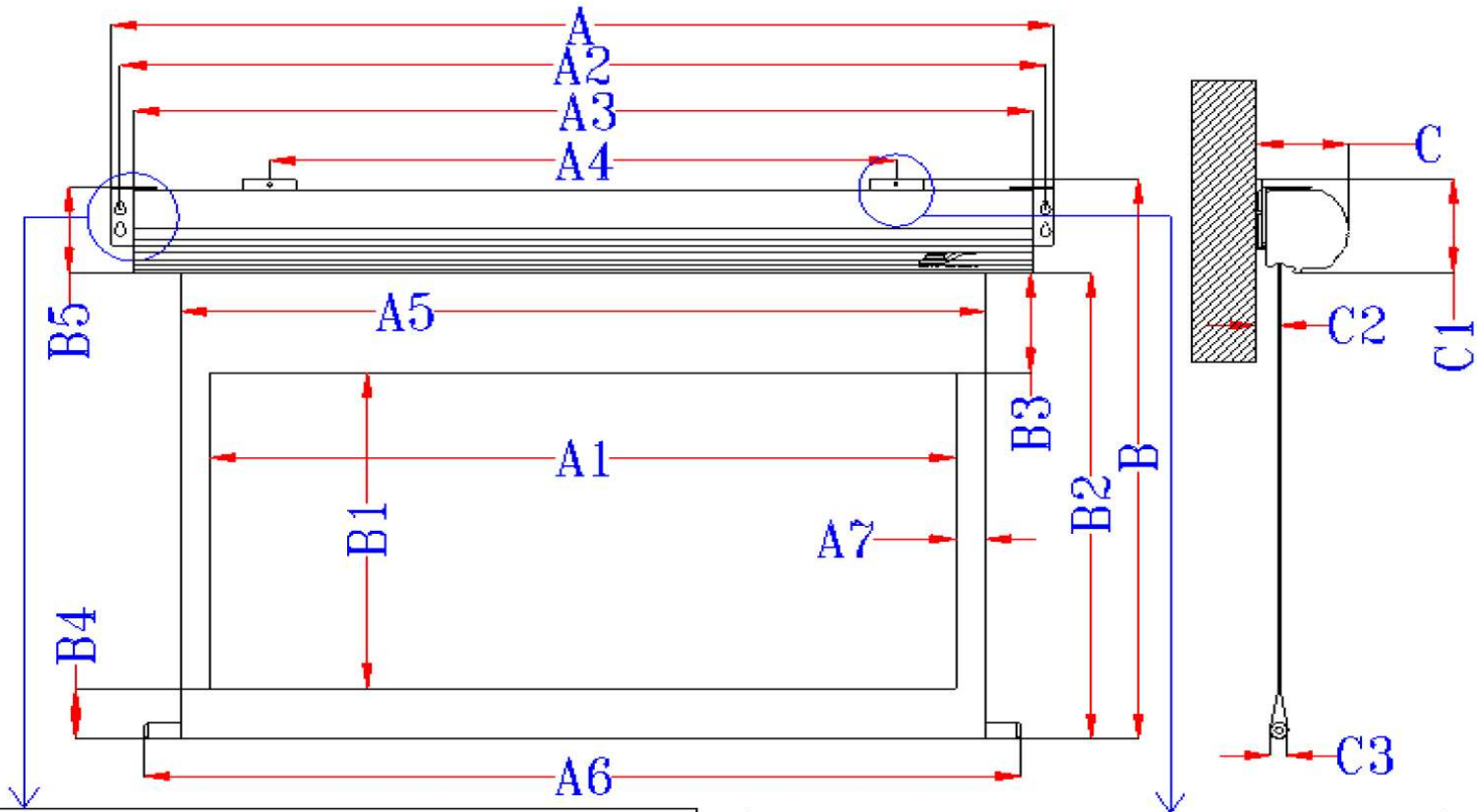| Model	A	A1	A2	A3	A4	A5	A6	A7	B	B1	B2	B3	B4	B5	C	C1	C2	C3
Unit: Inches																		
SK84XHW-E24	85.7	73.2	85.0	83.9	52.4	76.2	79.4	1.5	71.8	41.2	67.6	24.0	2.4	3.9	4.0	4.3	1.4	0.9
SK100XHW-E24	100.7	87.2	99.9	98.9	67.4	91.1	94.3	2.0	79.6	49.0	75.4	24.0	2.4	3.9	4.0	4.3	1.4	0.9
SK110XHW-E24	109.6	95.9	108.8	107.8	76.3	99.8	103.0	2.0	84.6	53.9	80.3	24.0	2.4	3.9	4.0	4.3	1.4	0.9
SK120XHW-E20	118.1	104.6	117.4	116.3	84.8	108.5	111.7	2.0	85.4	58.8	81.2	20.0	2.4	3.9	4.0	4.3	1.4	0.9
SK135XHW-E18	131.2	117.7	130.4	129.4	97.9	121.6	124.8	2.0	90.8	66.2	86.5	18.0	2.4	3.9	4.0	4.3	1.4	0.9
SK150XHW-E12	144.3	130.7	143.5	142.5	111.0	134.7	137.8	2.0	92.2	73.5	87.9	12.0	2.4	3.9	4.0	4.3	1.4	0.9
SK100NXW-E24	98.3	84.8	97.5	96.5	65.0	88.8	92.0	2.0	83.6	53.0	79.4	24.0	2.4	3.9	4.0	4.3	1.4	0.9
SK120NXW-E12	115.3	101.8	114.5	113.5	82.0	105.7	108.9	2.0	82.2	63.6	78.0	12.0	2.4	3.9	4.0	4.3	1.4	0.9
SK180XVW2-E4	158.0	144.0	156.6	155.2	123.7	148.0	151.1	2.0	119.3	108.0	114.4	4.0	2.4	4.6	4.6	4.9	1.4	0.9
SK180XHW2-E12	171.1	156.9	169.6	168.3	136.8	160.8	164.0	2.0	107.6	88.3	102.6	12.0	2.4	4.6	4.6	4.9	1.4	0.9
Unit: mm																		
SK84XHW-E24	2178	1860	2158	2132	1332	1936	2016	38	1824	1046	1716	610	60	100	102	108	35	23
SK100XHW-E24	2557	2214	2537	2511	1711	2314	2394	50	2023	1245	1915	610	60	100	102	108	35	23
SK110XHW-E24	2783	2435	2763	2737	1937	2535	2615	50	2148	1370	2040	610	60	100	102	108	35	23
SK120XHW-E20	3001	2657	2981	2955	2155	2757	2837	50	2170	1494	2062	508	60	100	102	108	35	23
SK135XHW-E18	3332	2989	3312	3286	2486	3089	3169	50	2306	1681	2198	457	60	100	102	108	35	23
SK150XHW-E12	3666	3321	3646	3620	2820	3421	3501	50	2341	1868	2233	305	60	100	102	108	35	23
SK100NXW-E24	2497	2154	2477	2451	1651	2256	2336	51	2124	1346	2016	610	60	100	102	108	35	23
SK120NXW-E12	2929	2585	2909	2883	2083	2685	2765	50	2088	1615	1980	305	60	100	102	108	35	23
SK180XVW2-E4	4013	3658	3978	3942	3142	3759	3838	51	3030	2743	2906	102	61	117	117	124	36	23
SK180XHW2-E12	4346	3985	4308	4275	3475	4084	4166	51	2733	2243	2606	305	61	117	117	124	36	23

ELITE SCREENS
YOUR PROJECTION SCREEN COMPANY

5.2 Drawings

5.2.1 Below 180" Models

5.2.2   180" Models

Unit: mm

Unit: mm

5.3   Pictures

Saker Series Black and White Housing

Housing and Weight Bar Detail

Bracket Detail

RJ45 Input and IR "eye" receiver Close Up

Accessories

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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