

Saker Tab-Tension Series

Section 1: Screen Design

1.1 What is it?

The *Saker Tab-Tension Series* includes a tab-tension system with *MaxWhite*[®] *Fiberglass* or *AcousticPro UHD* material to maintain flatness all across the projection surface.

1.2 How does it work?

Standard features include a wireless 5-12 volt trigger, IR/RF remote control package, and a detachable manual keypad switch. 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.

Section 2: Product Features

2.1 Characteristics

Screen Material

- 180° wide viewing angle
- Active 3D, 4K Ultra HD, and HDR Ready
- Not compatible with Ultra/Short-throw Projectors
- Standard black masking borders and black backing
- Available in the following range of diagonal sizes:
 - 100" and 120" in 4:3 format
 - 84" 180" in 16:9 format
 - 106" and 120" in 16:10 format

Design and Installation

- Flush hidden wall mounts allow screen to slide horizontally for proper centering
- Tab-tension design helps maintain a flat projection surface
- Curved aluminum enamel white case with parallel grooves
- Extra top black masking border for high ceiling installations
- Plug & Play ready, no hardwire installation required
- Mounting hardware kit included for wall or ceiling installation

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

Quality and Reliability

- Silent operation synchronous motor and low power consumption
- Flame Retardant: Complies with NFPA 701 Standards (MaxWhite FG & AcousticPro UHD)
- GREENGUARD® and GREENGUARD® Gold Certified (MaxWhite FG)
- 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 N.W. Color (lbs)		G.W. (lbs)	Packaging Dimensions (LxWxH)	
SKT100XVW-E10	100"	4:3	60.0	80.0	MaxWhite® FG	1.1	White	30.0	38.7	102.6"x6.7"x6.3"	
SKT120XVW-E9	120"	4:3	72.0	96.0	MaxWhite® FG	1.1	White	33.8	43.0	122.0"x6.7"x6.3"	
SKT84XHW-E12	84"	16:9	41.2	73.2	MaxWhite® FG	1.1	White	24.5	32.3	98.0"x6.7"x6.3"	
SKT100XHW-E12	100"	16:9	49.0	87.2	MaxWhite® FG	1.1	White	27.7	36.3	111.4"x6.3"x6.7"	
SKT110XHW-E24	110"	16:9	53.9	95.9	MaxWhite® FG	1.1	White	32.9	42.1	122.0"x6.7"x6.3"	
SKT120XHW-E20	120"	16:9	58.8	104.6	MaxWhite® FG	1.1	White	35.5	44.8	129.7"x6.7"x6.3"	
SKT135XHW-E6	135"	16:9	66.2	117.7	MaxWhite® FG	1.1	White	38.4	48.1	144.9"x6.7"x6.3"	
SKT150XHW-E6	150"	16:9	73.5	130.7	.7 MaxWhite® FG		White	56.6	76.4	155.9"x8.5"x7.9"	
SKT165XHW-E6	165"	16:9	80.9	143.8	MaxWhite® FG	1.1	White	61.5	82.3	166.5"x8.5"x7.9"	
SKT106NXW-E12	106"	16:10	56.2	89.9	MaxWhite® FG	1.1	White	29.5	37.9	114.3"x6.7"x6.3"	
SKT120NXW-E12	120"	16:10	63.6	101.8	MaxWhite® FG	1.1	White	34.3	43.4	127.6"x6.7"x6.3"	
SKT100UH-E24-AUHD	100"	16:9	49.0	87.2	AcousticPro UHD	1.0	Black	28.6	37.6	111.8"x6.7"x6.3"	
SKT110UH-E24-AUHD	110"	16:9	53.9	95.9	AcousticPro UHD	1.0	Black	33.2	42.6	122.0"x6.7"x6.3"	
SKT120UH-E20-AUHD	120"	16:9	58.8	104.6	AcousticPro UHD	1.0	Black	35.4	45.1	129.7"x6.7"x6.3"	
SKT135UH-E12-AUHD	135"	16:9	66.2	117.7	AcousticPro UHD	1.0	Black	51.7	70.7	142.9"x8.5"x7.9"	
SKT150UH-E12-AUHD	150"	16:9	73.5	130.7	AcousticPro UHD	1.0	Black	57.0	74.4	156.3"x8.5"x7.9"	
SKT180UH-E3-AUHD	180"	16:9	88.3	156.9	AcousticPro UHD	1.0	Black	66.6	88.1	182.3"x8.5"x7.9"	

Section 3: Screen Material Specifications

3.1.1 MaxWhite® FG 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

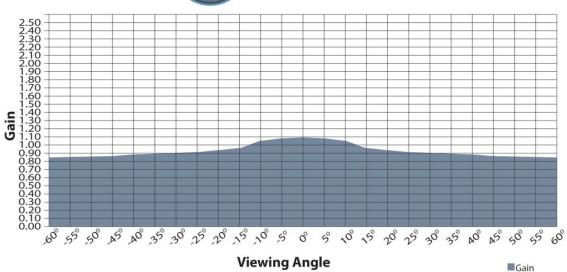
- Multi-layer weave with textured surface
- Fiberglass backing with black backing
- Gain: 1.1
- View Angle: 180° (90° ± LR)
- Not compatible with Ultra/Short-throw Projectors
- Mildew Resistant
- Active 3D, 4K Ultra HD, and HDR ready
- Surface can be cleaned with mild soap and water
- Flame Retardant: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

3.1.2 Gain and Viewing Angle

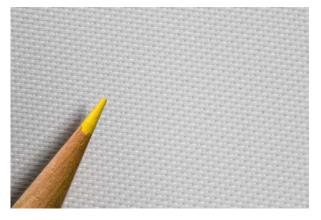


On axis 0° Gain: 1.1 Viewing Cone: 180°



3.2.1 AcousticPro UHD Characteristics

The *AcousticPro UHD* (ultra-high definition) is a moiré-free self-supported acoustically transparent front projection screen material. The dense synthetic weave is compatible with Ultra-High Definition/4K resolutions while mitigating light penetration for a brighter picture. The *AcousticPro UHD* design maximizes sound penetration with minimal attenuation without compromising picture quality. The *AcousticPro UHD* material's





wide diffusion uniformity offers a broad viewing angle with superb picture quality across the entire surface. This provides equal brightness levels on or off axis.

"Speaking of "observing", the Electric125H-AUHD performed admirably across a diversity of content and at all hours of day and night; its ambient light suppression was top-notch." – *Brian Dipert, EDN Network*

Features & Benefits

Gain: 1.0

Viewing Angle: 180° (90°L/R)

Moiré-free

 Wide diffusion uniformity – maintains luminance levels throughout entire surface

Mildew Resistant

• 4K UHD, Active 3D, and HDR ready

Mean Attenuation: -2.36dB

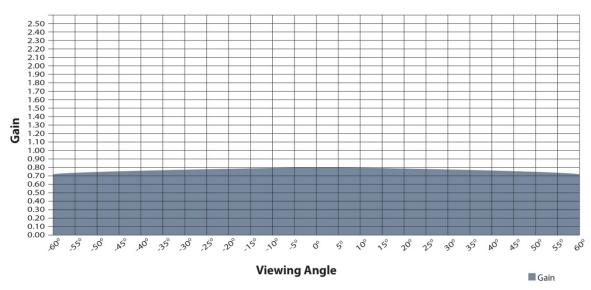
• Flame Retardant: Complies with NFPA 701 Standards

Specifications	
Thickness	0.64 mm (0.025")
Weight	500 g/m ²
Maximum Height	2.5 M (8.2 ft)
On-axis Gain	1.0
Half-Gain Angle	Does not reach half gain

3.1.2 Gain and Viewing Angle



On axis 0° Gain: .80 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 EliteProAV TM . 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.

4.2 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 EliteProAVTM 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.

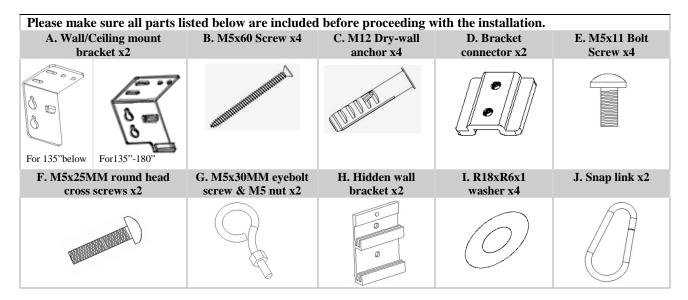
4.3 Pre-Installation

- 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.

4.4 Hardware Parts List



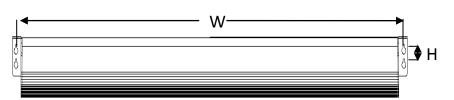
4.5 Installation Instructions

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

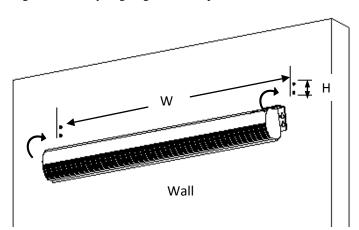


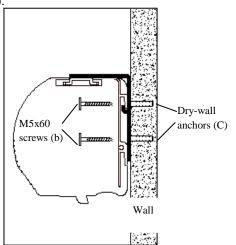
A. Wall Mount

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



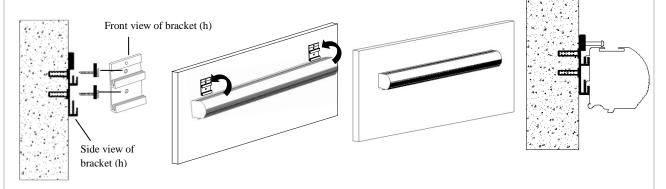
- Bracket connector
 (D)
 Wall/Ceiling Mount
 Rracket (A)
- 1. Begin by sliding the *bracket connector* (D) all the way to each end of the housing.
- 2. Then attach it to the $wall/ceiling\ mount\ bracket$ (A) with the $M5x11bolt\ screw$ (E).
- 3. Measure and mark the (WxH) distance between the two holes 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 aM5x60 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).





II. Flush hidden mount (movable position)

This mount method allows the screen to slide horizontally.

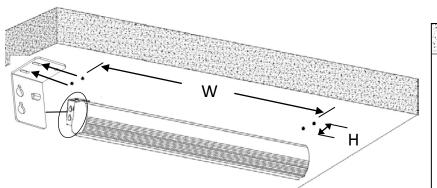


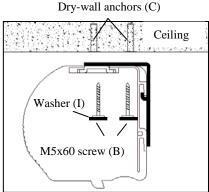
- 1. Determine where the screen will be installed. Then, measure and mark the distance between the top and bottom screw holes from each *hidden wall mount bracket* (H).
- 2. Drill a hole on all marked areas and install the brackets with the *dry-wall anchor*(C), *M5x60 screw* (B), and a *washer* (I). 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)



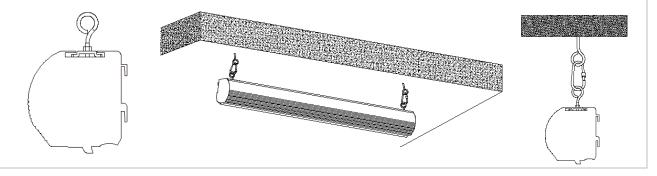


NOTE: The brackets do not slide. They are designed to attach the end caps only.

- 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.

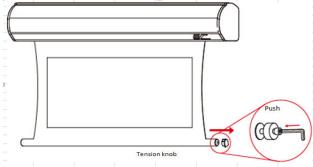
II. Suspended

- 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.



4.6 Screen Material Tension Adjustment (4mm Allen Wrench required and not included)

Remove the weight bar end cap to expose the adjustment tension knob. Insert your 4mm Allen Wrench to push in the adjustment tension knob, turn clockwise and your screen will gain more tension. Turn the Allen Wrench counter clockwise and the screen will lose tension. Please note this adjustment is not necessary as the tension of the screen has been set to its factory setting for best performance. Please contact EliteProAVTM for assistance to avoid damaging the screen and voiding your warranty.





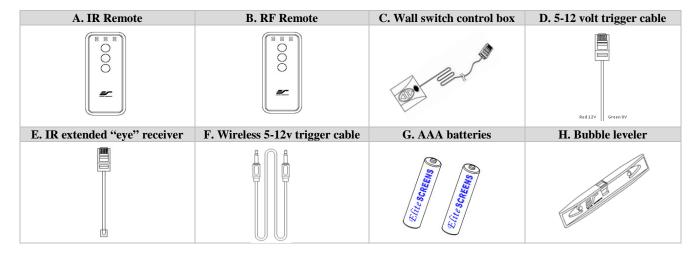
UP

STOP DOWN

Fig.1

IR/RF remote

4.7 Controls and Accessories



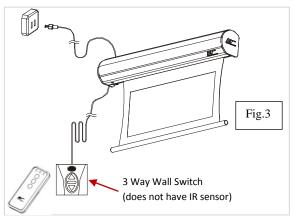
4.8 Screen Operation

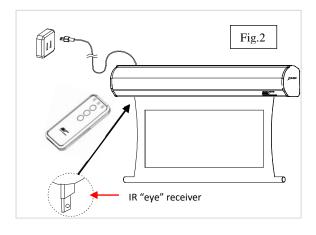
Electric Current: Depending upon region, your EliteProAVTM screen will operate on 100v, 110v, or 220v voltage.

- 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. <u>IR remote control</u> (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.
- 2. <u>IR "Eye" Receiver</u> (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.
 - for a
- **3.** <u>RF Remote Control</u> (Item B): The radio waves eliminate the need for a direct line of sight with a range of 100 feet.
- **4.** <u>3-Way Wall Switch</u> (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.

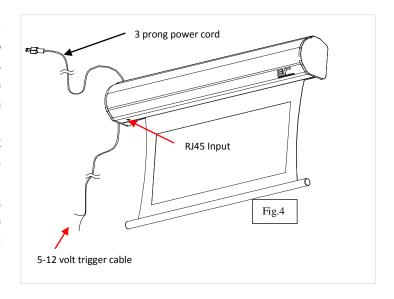




9



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.



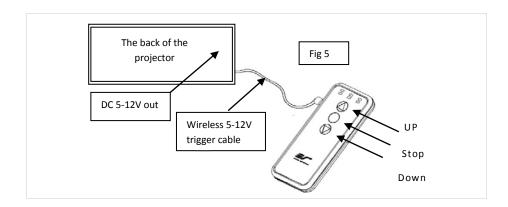
6. <u>Wireless 5-12 volt trigger</u> (**Item F, Fig 5**): The RF remote control serves as a dual purpose, independently as a handheld remote control, or in conjunction with the Wireless 5-12 volt trigger cable. The radio frequency technology can be programmed to send a wireless signal to synchronize 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)





Section 5: Product Specifications

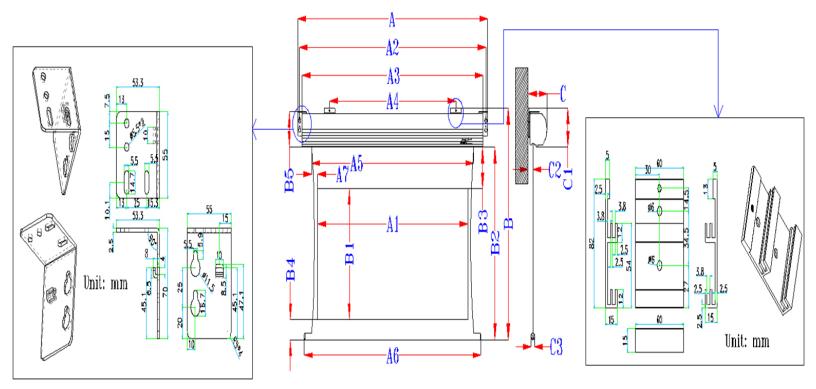
5.1 Dimensions

Model Numbers	Α	A1	A2	А3	A4	A5	A6	A7	В	B1	В2	В3	В4	В5	С	C1	C2	С3
Unit: Inches																		
SKT100XVW-E10	98.4	80.0	97.6	96.6	65.1	89.4	94.0	4.7	76.6	60.0	72.4	10.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT120XVW-E9	116.2	96.0	115.4	114.4	82.9	105.4	111.8	4.7	87.6	72.0	83.4	9.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT84XHW-E12	91.8	73.2	91.0	90.0	58.5	81.1	87.4	3.9	59.8	41.2	55.6	12.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT100XHW-E12	105.7	87.2	105.0	103.9	72.4	95.0	101.4	3.9	67.6	49.0	63.4	12.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT110XHW-E24	116.2	95.9	115.4	114.4	82.9	105.3	111.8	4.7	84.6	53.9	80.3	24.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT120XHW-E20	124.8	104.6	124.1	123.0	91.5	114.1	120.5	4.7	85.4	58.8	81.2	20.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT135XHW-E6	139.4	117.7	138.6	137.6	106.1	127.1	135.0	4.7	78.8	66.2	74.5	6.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT150XHW-E6	153.1	130.7	151.7	150.4	118.9	139.4	148.0	4.3	86.8	73.5	81.9	6.0	2.4	4.6	4.6	4.9	1.4	0.9
SKT165XHW-E6	166.4	143.8	165.0	163.6	132.1	153.3	161.3	4.7	94.2	80.9	89.3	6.0	2.4	4.6	4.6	4.9	1.4	0.9
SKT106NXW-E12	108.3	89.9	107.5	106.5	75.0	97.8	103.9	3.9	74.8	56.2	70.6	12.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT120NXW-E12	121.9	101.8	121.1	120.1	88.6	111.2	117.5	4.7	82.2	63.6	78.0	12.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT100UH-E24-AUHD	105.7	87.2	105.0	103.9	72.4	95.0	101.4	3.9	79.6	49.0	75.4	24.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT110UH-E24-AUHD	116.2	95.9	115.4	114.4	82.9	105.3	111.8	4.7	84.6	53.9	80.3	24.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT120UH-E20-AUHD	124.8	104.6	124.1	123.0	91.5	114.1	120.5	4.7	85.4	58.8	81.2	20.0	2.4	3.9	4.0	4.3	1.4	0.9
SKT135UH-E12-AUHD	140.0	117.7	138.6	137.3	105.8	127.1	134.9	4.7	85.5	66.2	80.6	12.0	2.4	4.6	4.6	4.9	1.4	0.9
SKT150UH-E12-AUHD	153.1	130.7	151.7	150.4	118.9	140.2	148.0	4.7	92.8	73.5	87.9	12.0	2.4	4.6	4.6	4.9	1.4	0.9
SKT180UH-E3-AUHD	179.3	156.9	177.8	176.5	145.0	167.1	174.1	5.1	98.5	88.3	93.6	3.0	2.4	4.6	4.6	4.9	1.4	0.9
						U	nit: mm											
SKT100XVW-E10	2499	2032	2479	2453	1653	2272	2388	120	1946	1524	1838	254	60	100	102	108	35	23
SKT120XVW-E9	2951	2438	2931	2905	2105	2678	2840	120	2226	1829	2118	229	60	100	102	108	35	23
SKT84XHW-E12	2331	1860	2311	2285	1485	2060	2220	100	1519	1046	1411	305	60	100	102	108	35	23
SKT100XHW-E12	2686	2214	2666	2640	1840	2414	2575	100	1718	1245	1610	305	60	100	102	108	35	23
SKT110XHW-E24	2951	2435	2931	2905	2105	2675	2840	120	2148	1370	2040	610	60	100	102	108	35	23
SKT120XHW-E20	3171	2657	3151	3125	2325	2897	3060	120	2170	1494	2062	508	60	100	102	108	35	23
SKT135XHW-E6	3541	2989	3521	3495	2695	3229	3430	120	2001	1681	1893	152	60	100	102	108	35	23
SKT150XHW-E6	3889	3321	3853	3819	3019	3541	3759	110	2205	1868	2080	152	60	118	118	125	35	23
SKT165XHW-E6	4227	3653	4191	4155	3355	3894	4097	119	2393	2055	2268	152	61	117	117	124	36	23
SKT106NXW-E12	2751	2283	2731	2705	1905	2483	2640	100	1900	1427	1792	305	60	100	102	108	35	23
SKT120NXW-E12	3096	2585	3076	3050	2250	2825	2985	120	2088	1615	1980	305	60	100	102	108	35	23
SKT100UH-E24-AUHD	2686	2214	2666	2640	1840	2414	2575	100	2022	1245	1915	610	60	100	102	108	35	23
SKT110UH-E24-AUHD	2951	2435	2931	2905	2105	2675	2840	120	2149	1370	2040	610	60	100	102	108	35	23
SKT120UH-E20-AUHD	3171	2657	3151	3125	2325	2897	3060	120	2170	1494	2062	508	60	100	102	108	35	23
SKT135UH-E12-AUHD	3557	2989	3521	3487	2687	3229	3427	120	2171	1681	2046	305	60	118	118	125	35	23
SKT150UH-E12-AUHD	3889	3321	3853	3819	3019	3561	3759	120	2358	1868	2233	305	60	118	118	125	35	23
SKT180UH-E3-AUHD	4553	3985	4517	4483	3683	4245	4423	130	2503	2242	2378	76	60	118	118	125	35	23

Note: Data Error: ±1"



5.2 Drawings



5.3 Pictures

Saker Tab-Tension Series in black and white housing



Elite Screens Inc. | Elite Screens Europe GmbH | Elite Screens France SAS | Elite Screens India Elite Screens China Ltd. | Elite Screens Taiwan Corp. | Elite Screens Japan | Elite Screens Australia

12



Left End Housing Detail



End Cap Detail

*Black case only available in Europe and AcousticPro UHD models







Flush Wall Mount Bracket Detail











Remote Kit



Section 6: Company Description

6.1 About EliteProAV™

EliteProAV™ is a 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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