

Changhong S-CK Series Foldable Black Grid Screen

Front Projection Material

User's Guide

Product Description:

The *S-CK Series* is an ultra-short throw fixed frame projection screen (Foldable) that uses black grid material technology. It is designed for with **Ultra-Short Throw Projectors only**, for use in environments where ceiling light cannot be entirely controlled. It includes an LED backlight kit and a bezel trim to further enhance the frame appearance.

Screen Maintenance

Dust, dirt and scratches on the projection screen surface will affect the quality and performance of the projection image. For optimal results we advise to pay attention to the following instructions.

1) The screen surface has a horizontal structure. **DO NOT** wipe the screen up and down or in a circular motion.

Wipe from left to right only.

2) Please clean the dust on the screen surface with a soft brush or microfiber cloth (rough towel or cloth may damage the screen's surface).

3) Gently wipe the screen with a moistened microfiber cloth with mild soap diluted in water.

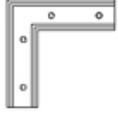
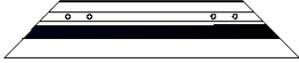
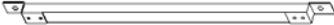
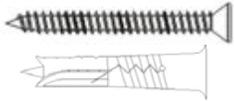
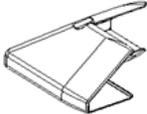
Notes:

The following precautions should be followed at all times to avoid damaging the material, which is not covered under warranty.

- Don't **touch** the screen material to avoid leaving fingerprints. *Use gloves when handling the material.*
- Don't **scratch** the material, as it will leave permanent markings on the screen's surface.
- Don't **point** to the screen material with a fingertip or other sharp objects to prevent damage to the material.
- Don't use acetone, benzene, alcohol and any other organic solvents to clean the screen material. Using such chemicals will permanently damage the screen.

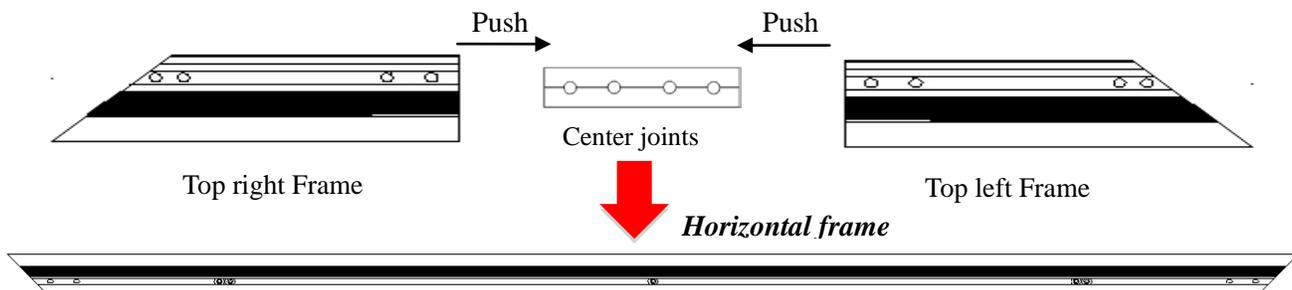
Hardware and Parts List

Please make sure all parts listed below are included before installation.

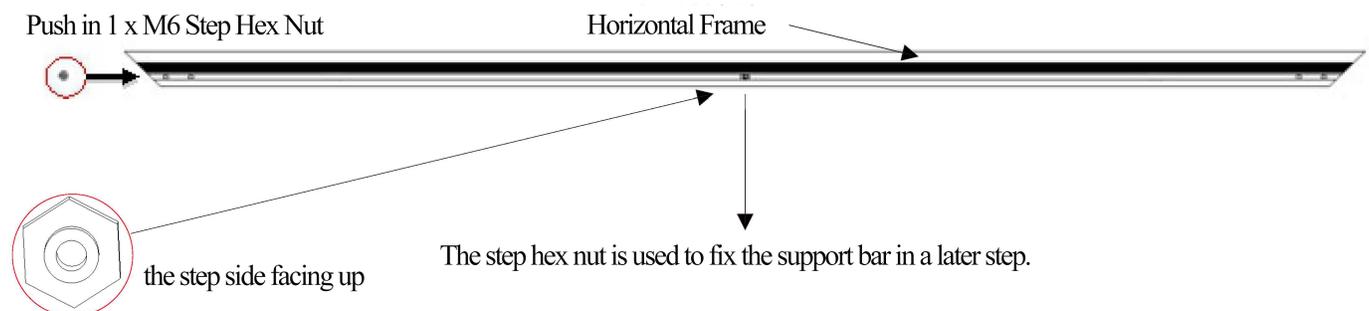
A. Elbow joint x4 pcs	B. Top/Bottom horizontal frame x4 pcs	C. Left/Right vertical frame x2 pcs	D. Center joints x2 pcs
			
E. Center support bar x1-2 pcs	F. Wall brackets x2-3 pcs	G. M5x16 screw x24 pcs	H. M6 Hex Step Nut x 2pcs
			
I. M6x12 Screw x 2pc	J. Screw and anchor x 6-9 pcs	K. Black Tape x1 bag	L. Bezel trim x6 pcs
			
M. Corner sleeve x4 pcs	N. White gloves x2 pcs		
			

Frame Assembly

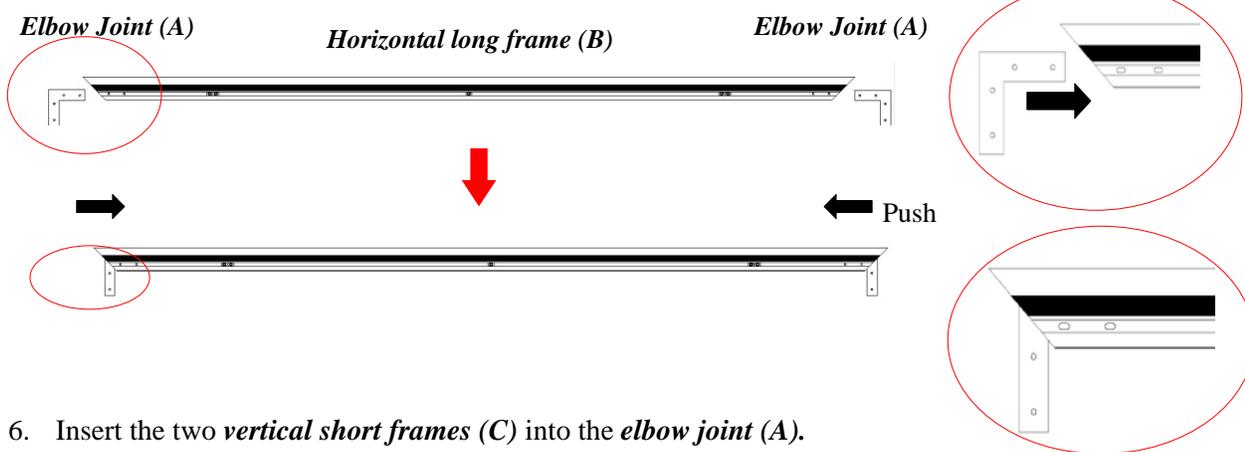
1. Insert the center joint into one of the $\frac{1}{2}$ horizontal frames and fasten it with the two **M5x16 screws (G)**.
2. Insert the other $\frac{1}{2}$ horizontal frame piece to the center joint and fasten also using two **M5x16 screws**.
3. Repeat steps 1 and 2 for assembling the second horizontal frame.



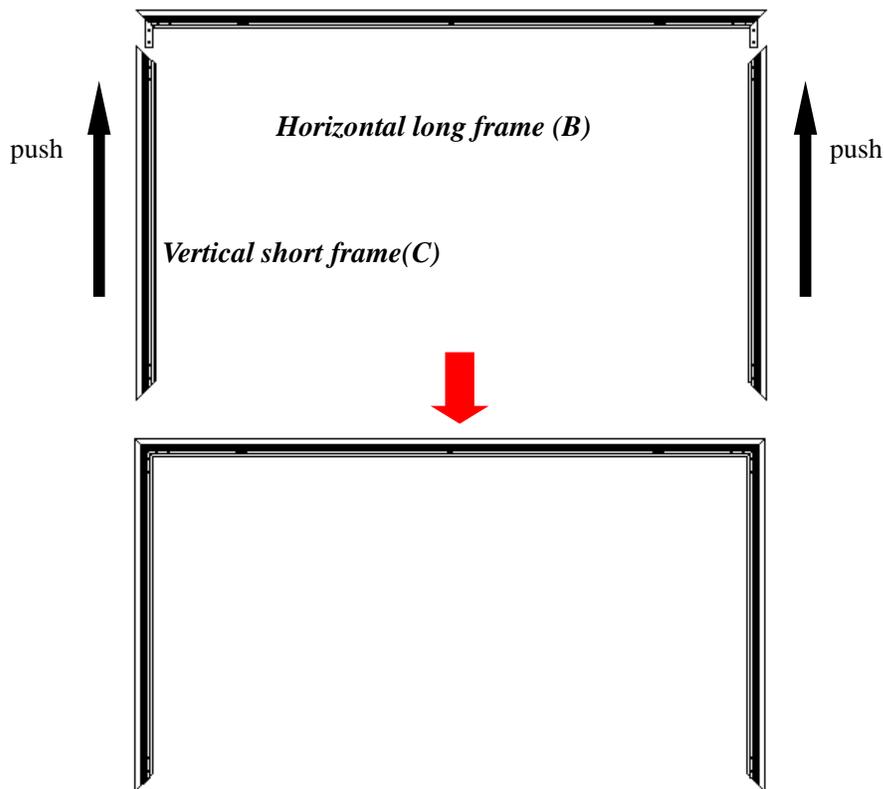
4. Push 1xM6 Hex Step Nut into each of the horizontal frame.



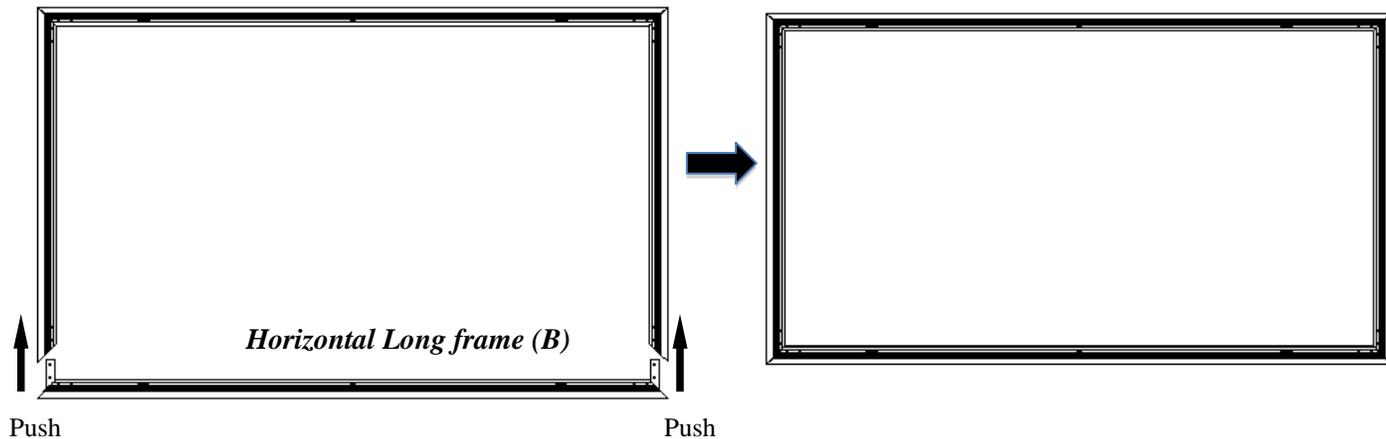
5. Insert the *elbow joint (A)* into each end of the *horizontal frames (B)* as shown below.



6. Insert the two *vertical short frames (C)* into the *elbow joint (A)*.

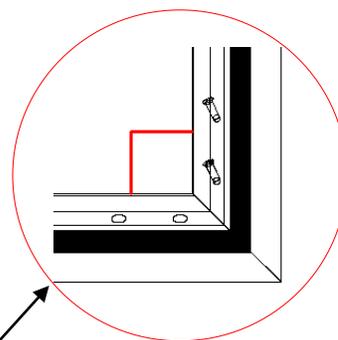
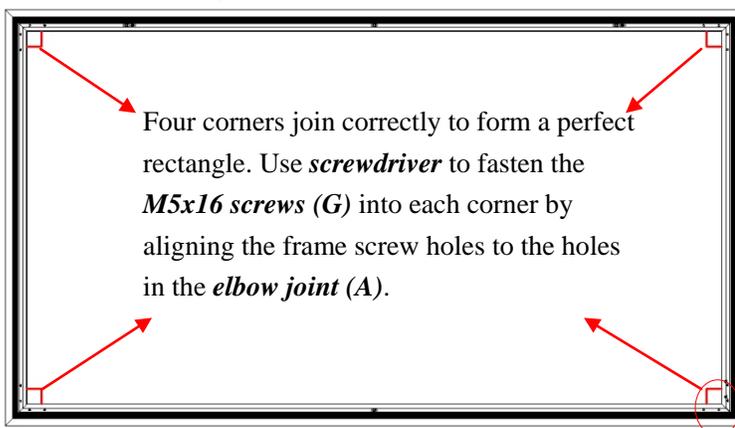


7. Join the remaining *horizontal long frame (B)* with the frame built in the previous steps as shown below.



8. Make sure all four corners are properly in place to form a perfect square.

Then fasten the four angles with the **M5x16 Screws (G)**.

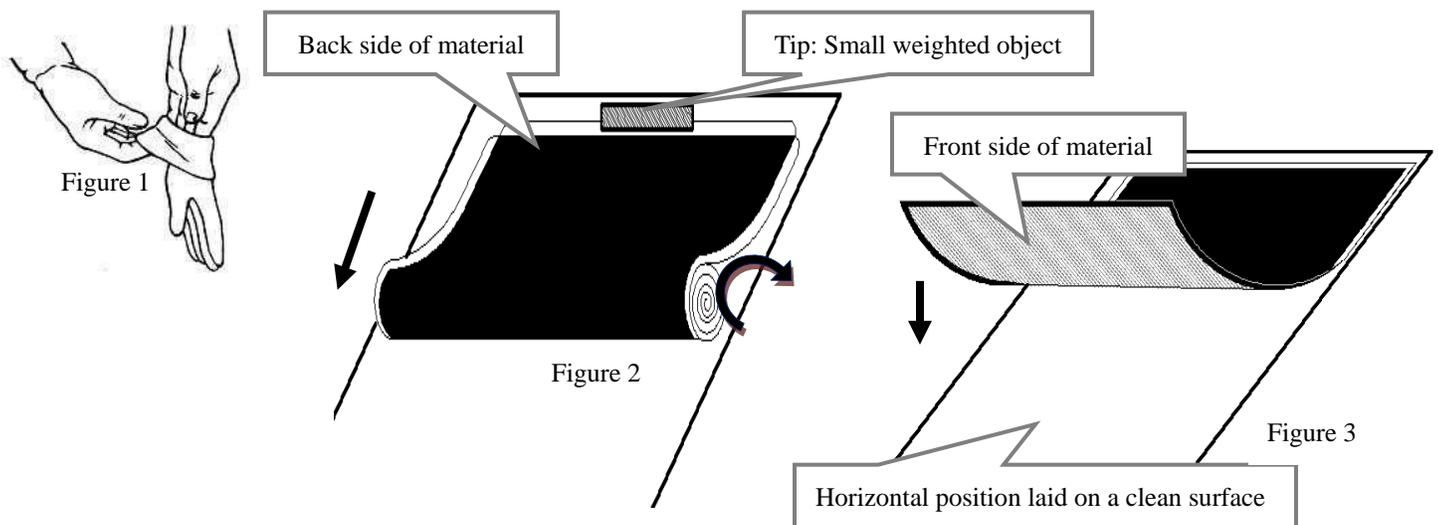


Screen Material Installation

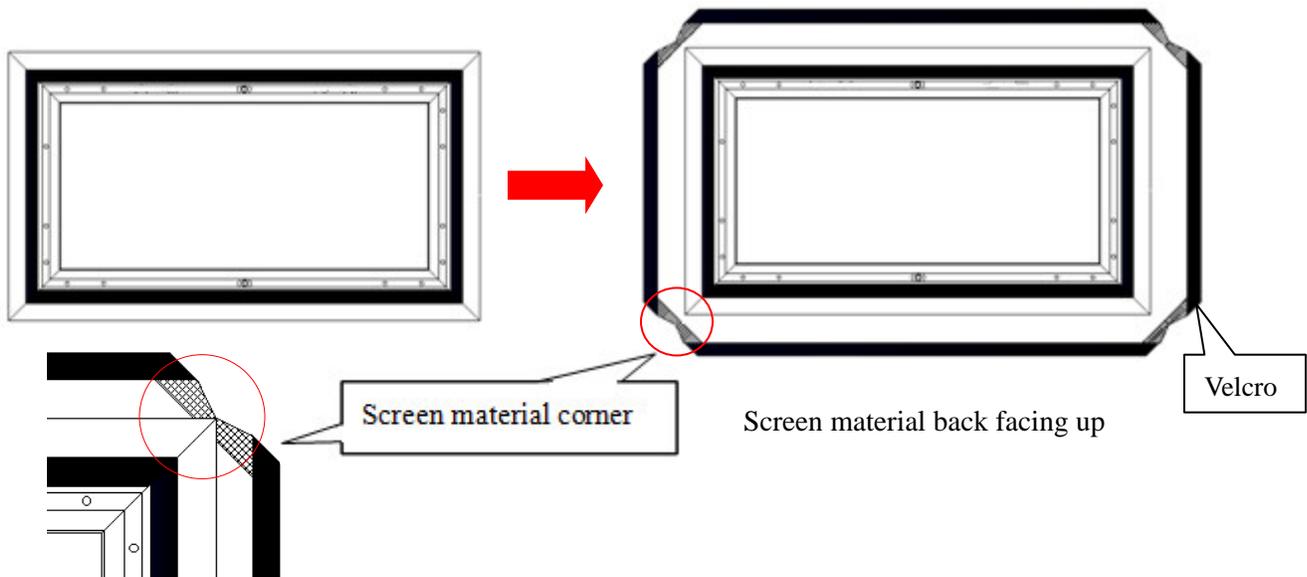
Please read this important note before proceeding with the installation process of the material:

Before handling the **Black Grid** material, put on the supplied pair of white gloves to avoid leaving fingerprint marks, dust or hand oil on the material's surface (Figure 1). The **Black Grid** material is very delicate and should be handled with extreme care. Do not allow the material to fold or bend. Failure to follow instructions will result in permanent damage to the screen material, which is not covered by warranty.

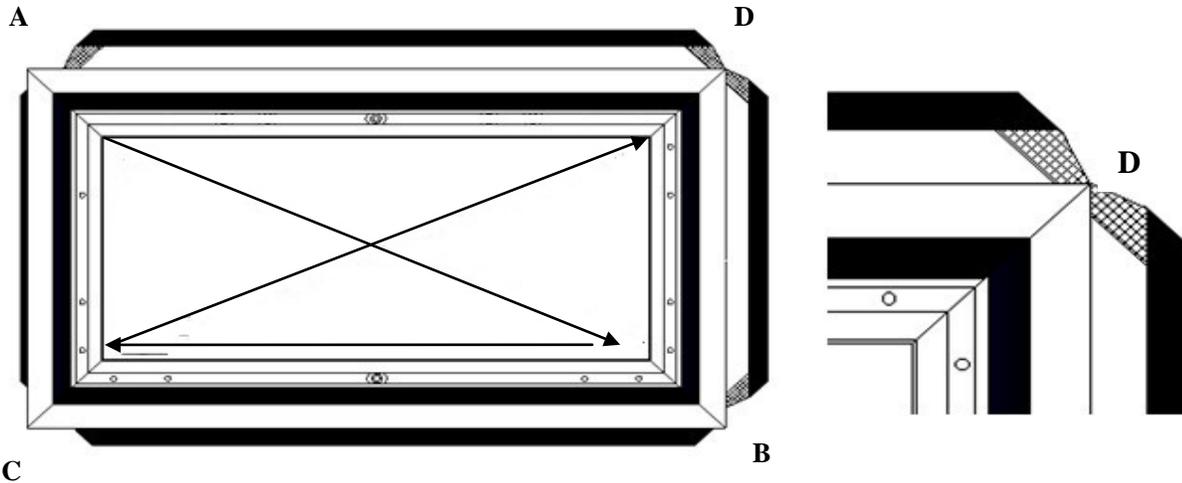
1. Remove the **Black Grid** material from the packaging tube and set it gently on a clean surface.
Tip: Carefully put a small flat weighted object at the edge (PVC/Velcro end) to prevent it from moving out of place.
Please keep the front of the material face down.
2. It is strongly recommended for two people to unroll the material to prevent the screen from bending or rolling unevenly. Each person holds one end of the roll and slowly unrolls the screen in a clockwise direction (Figure 2).
3. Lay the material completely flat with the front facing down on a clean surface in a horizontal position (Figure 3).



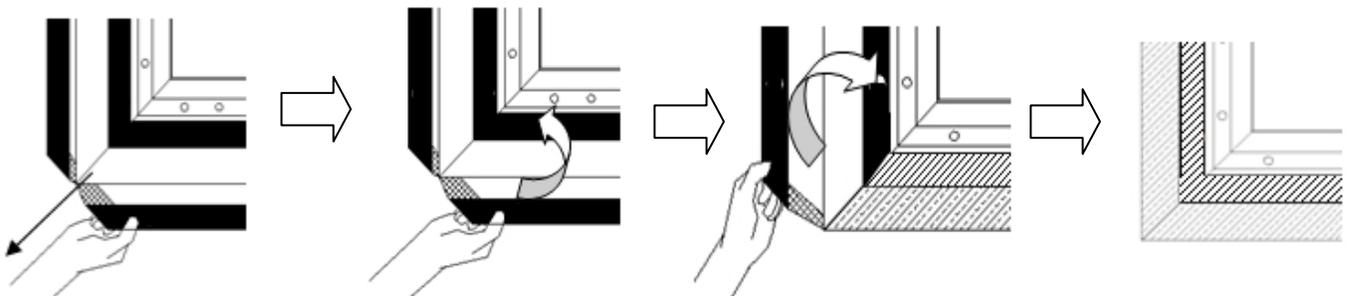
4. Carefully and gently place the assembled frame on top of the screen material as shown below. Make sure to not allow the angle edge of the frame to come in direct contact with the material to avoid puncturing or damaging it.



5. After all of the corners of the frame have been properly aligned (example D), attach the material on the frame in the following order A→B→C→D (see instructions below for details).



Attach the screen material to the corners as shown below.



1) Stretch the screen material in the direction of the arrowhead.

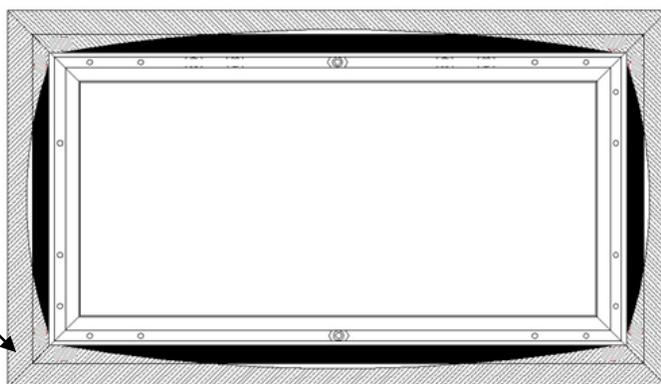
2) Fold over and attach material to the Velcro strip of the frame.

3) Fold over second side and attach to frame

4) Repeat until all four sides are done in the order A, B, C, D

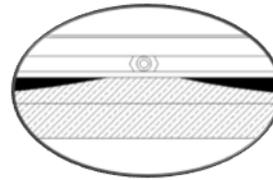
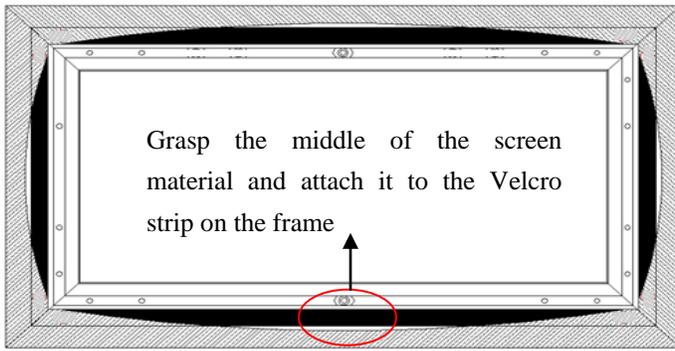
6. After all four corners have been attached; please check whether the screen material wraps the frame corners. If not, please loosen the Velcro connection and repeat the above steps so the frame is not exposed.

Note:
Represents the screen material

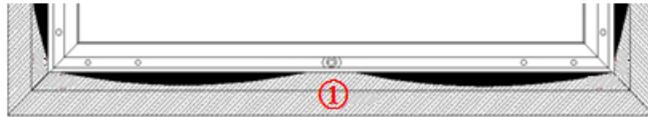


Note: The black shaded part represents the Velcro on the frame. That Velcro end will ultimately attach with the other Velcro end on the screen material.

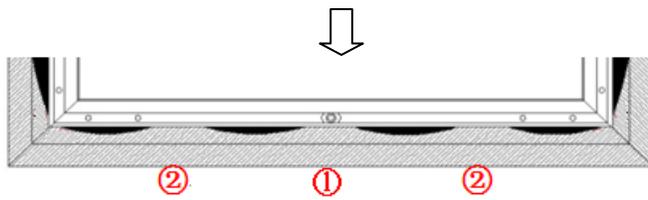
7. Proceed to attach the rest of the material to the frame as described in the illustrations below.



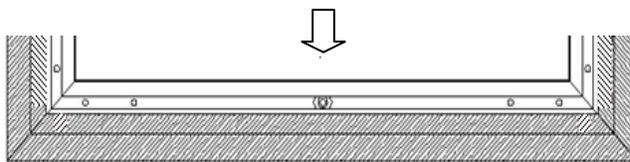
Lay the Velcro end on the screen material over the Velcro end of the frame and keep it within the edge.



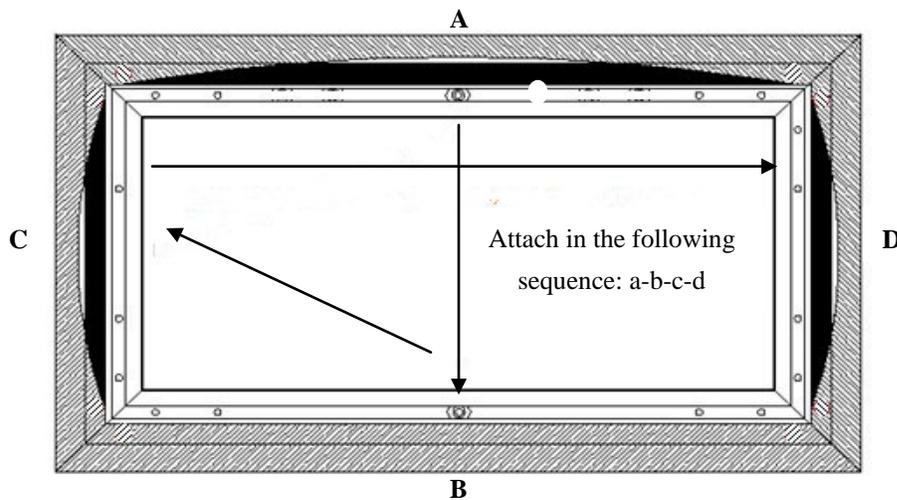
Proceed in the following sequence ①→②



The key is to attach within the middle sections of 1 and 2. Then continue attaching the remaining unattached areas.



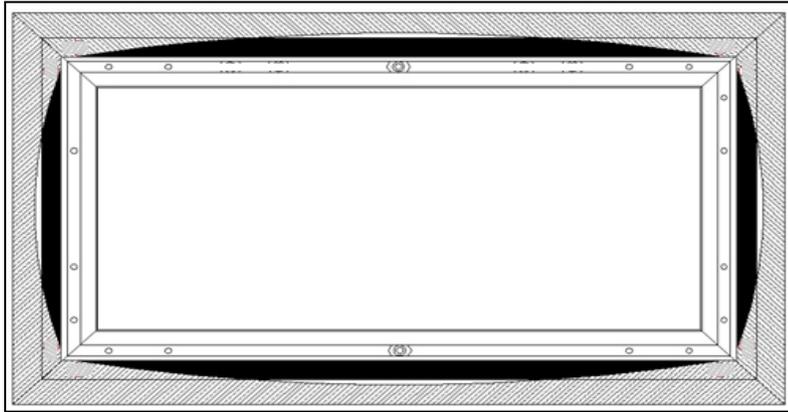
Repeat the same steps on remaining three sides in the sequence A, B, C, D.



Screen Material Removal

Follow the steps to properly remove the screen material from the frame. This procedure will ensure prolonging the life of the screen material.

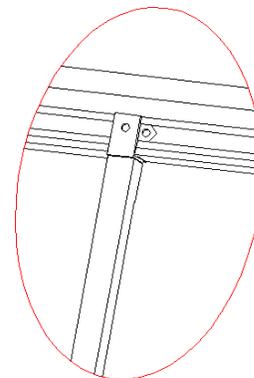
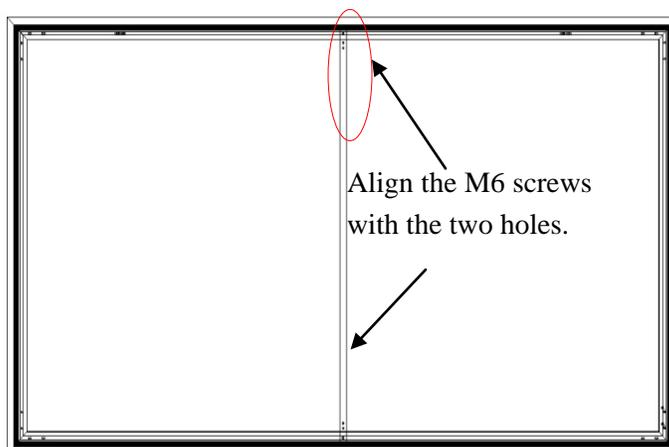
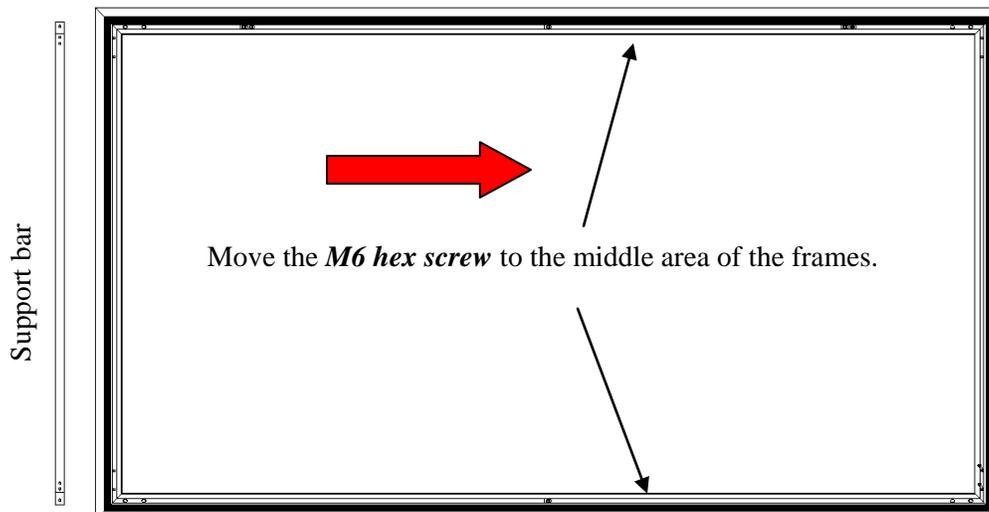
1. Detach the Velcro from the frame.
2. Gently pull back the material to release the material from the Velcro connections on the corners



Pull back the screen material from the Velcro connection along the edges of the frame to detach it.

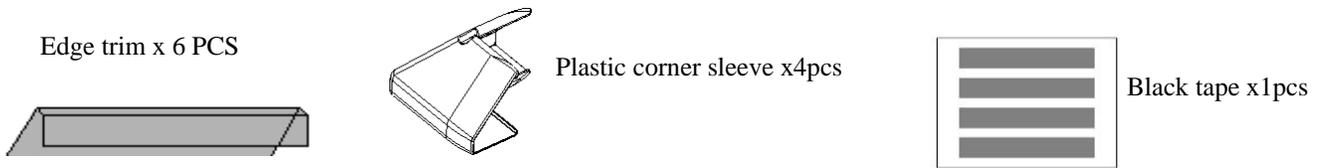
Support bar installation:

1. Position the *center support bar (E)* in the middle of the frame and align the hole on each end of the support bar with the *M6 hex step nut (H)* on the top and bottom frames. Then fasten with the *M6x12 screws (I)*.



Edge trim Installation

Included is an black edge trim that provides an elegant ultra-thin bezel finish



1. Place the assembled frame on a flat and clean surface. The projection screen surface should be facing up.
 - a. As an option, Black Tape is supplied to cover any possible gaps between the pieces of the bezel trim. Align the tape with the edge of the screen, as shown in Figure 1. Once properly aligned, apply the black tape to the center of the top and bottom of the screen material.

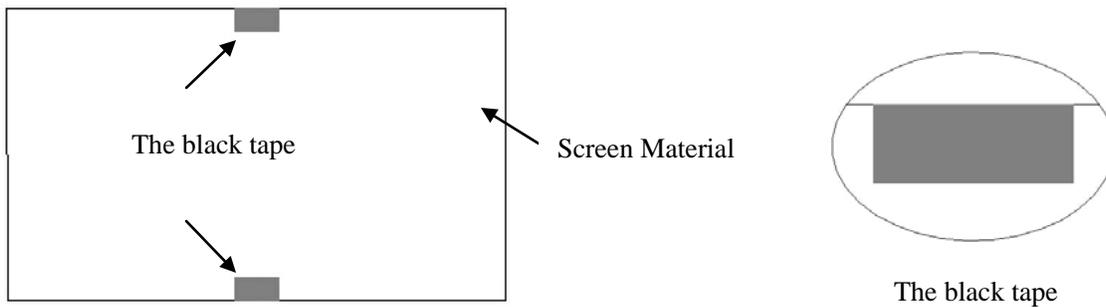
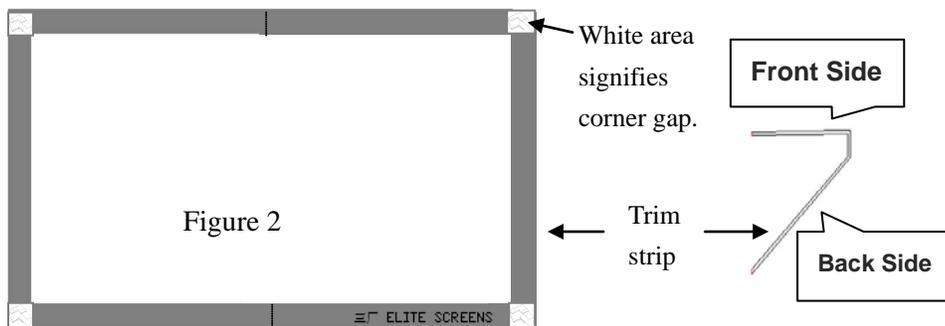


Figure 1

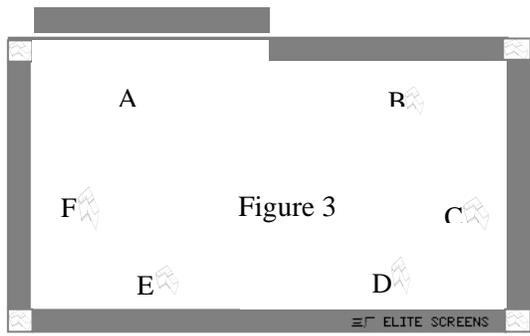
2. Without removing the adhesive tape, place all the trim pieces along the edge of screen material. Adjust the trim so that the top and bottom trim pieces are touching and show no gaps in the center. Refer to Figure 2 below for a visual reference.



TIP:
Align the trim starting from the center to reduce gapping. Any gaps left at the corners will be covered by the corner sleeves.

NOTE: Make sure the bottom edge trim with the Changhong Screens logo is installed on the correct side. The back of the material should be labeled with a DOWN sticker to indicate the material is facing in the down position. The Changhong Screens logo should be installed on the DOWN side

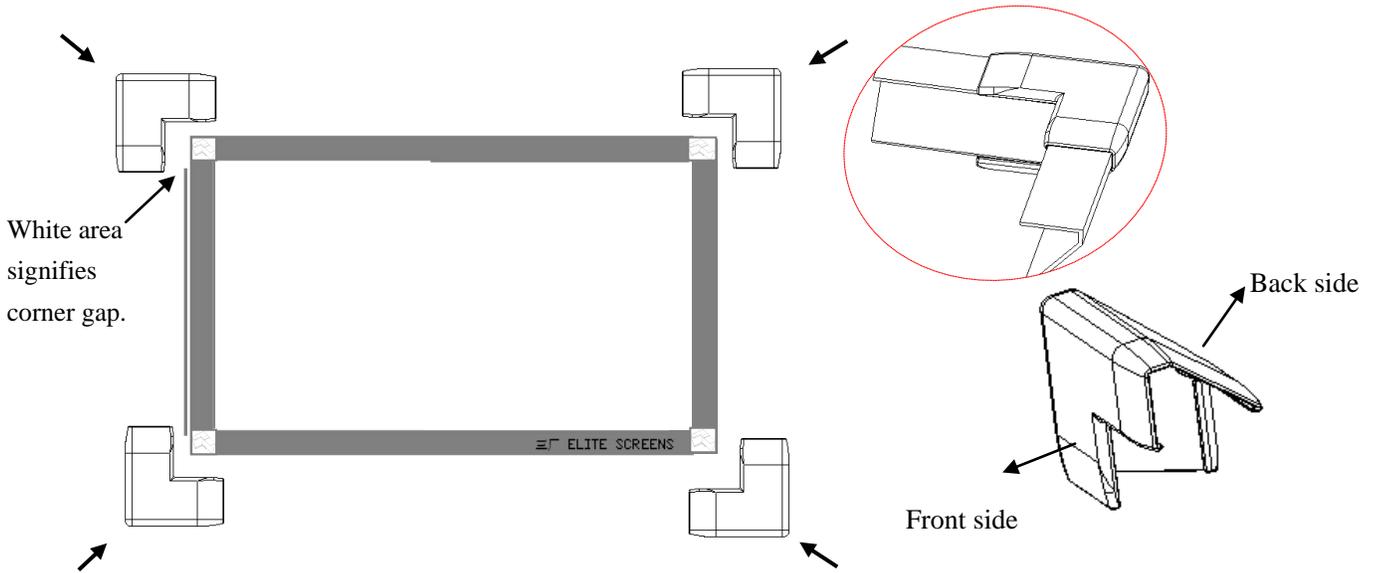
3. After properly aligning all trim pieces, carefully remove trim piece A (see Figure 3 below). Remove the inside backing of the tape and place the trim piece in its original position on the frame. Repeat this step for the remaining trim pieces in the following order: B-C-D-E-F.



The **front side** of the frame with trim pieces attached.



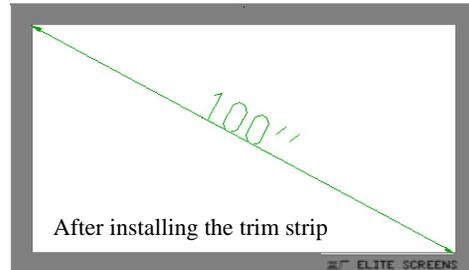
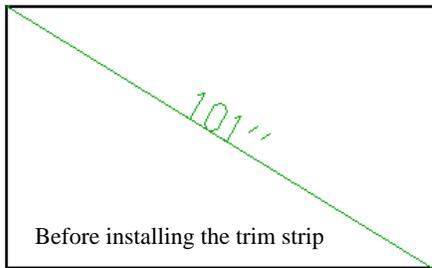
4. After the bezel trim has been installed, place a **corner sleeve (M)** on all four corners. Begin by aligning and adjusting the corner sleeve through the front of the screen. Make sure the corner sleeve completely wraps the edge of the bezel trim. This should cover any corner gaps.



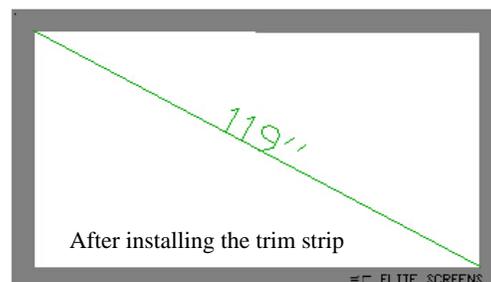
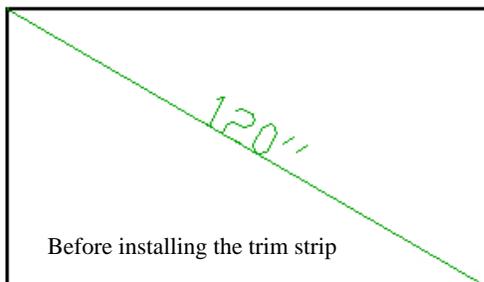
Once all corner sleeves have been snapped into each corner of the frame, it is ready to be wall installation.

Diagonal Size Note

The Diagonal Size of the S100CK before and after installing the edge trim strip.



S120CK comparison

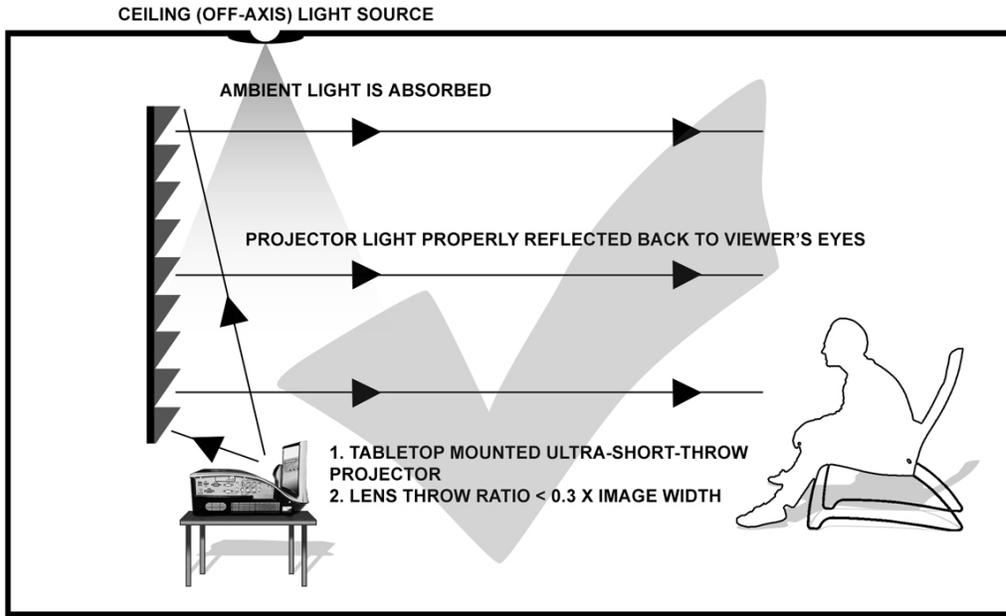


Notice to Installer:

Proper Projector Placement for Changhong S-CK Series

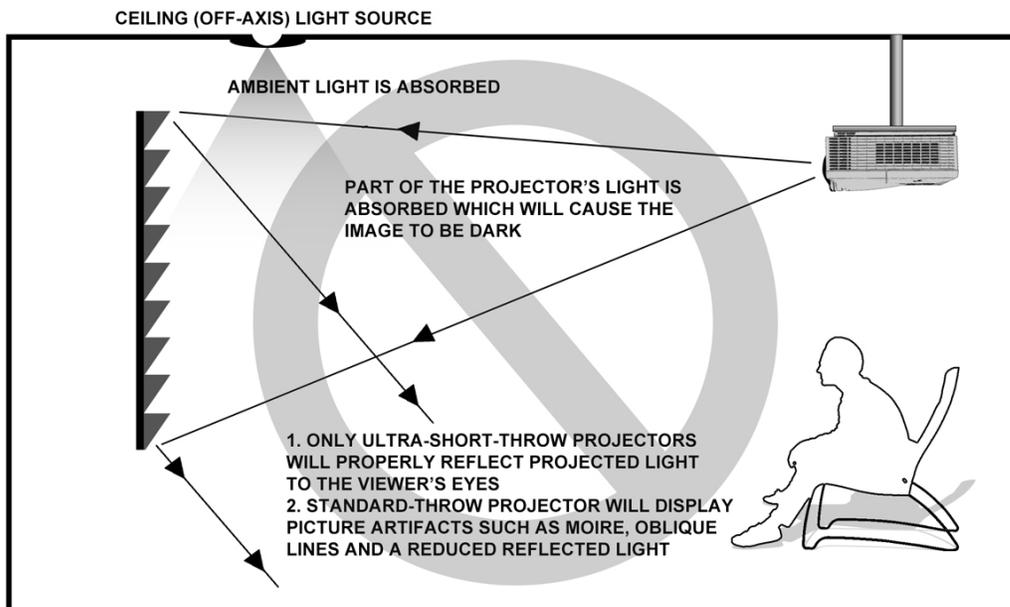
The Changhong S-CK Series is exclusively for table-mounted ultra-short throw projectors as illustrated in example 1 below. Overhead placement or a standard projector will make the image very dark, on account of the screen's absorbent layer deflecting light that is not aligned with its reflective angle.

Example 1: Proper Projector Installation



ULTRA SHORT THROW PROJECTOR ILLUSTRATION

Example 2: Improper Projector Installation



PROJECTOR CEILING INSTALLATION (NOT COMPATIBLE)

Images are not up to scale and are for illustrations purposes only.

Installation

1. Correctly distinguish the top and bottom of the screen:

Place the assembled screen vertically on the ground. Look down on the screen, if the material is black it is in the correct direction and ready for mounting on the wall. However, if the material is white, turn around the screen and then install it.

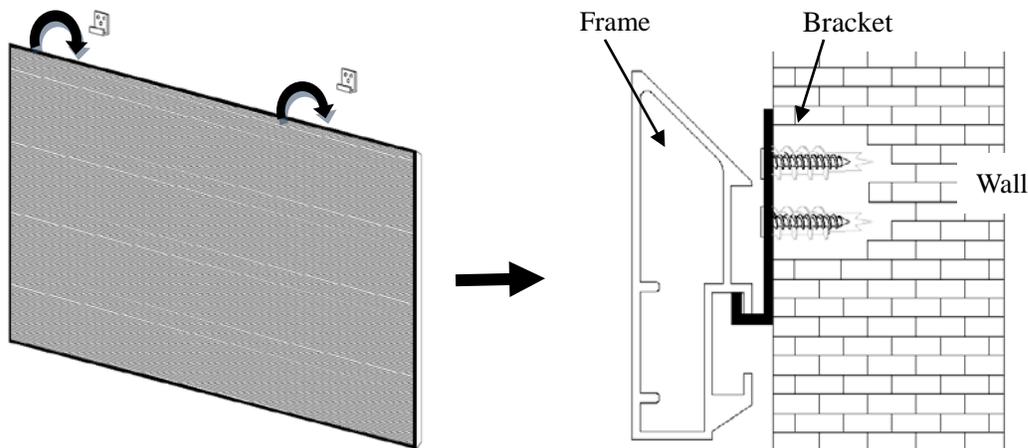
Note: There are also “Top” and “Bottom” labels on the back of the screen material to help distinguish the correct direction. Please make a note of this.

2. Preparing for installation

- 1) Locate your desired installation location with a stud finder (recommended) and mark the drill-hole area of where the screen is to be installed. (The distance of the holes is between 1/3 to 2/3 the length of the horizontal frame.)
- 2) The installation height must be based on your projector’s throw height and the distance between your projector and the screen, since this screen is just for Ultra-Short-Throw Projectors. Please refer to your projector’s distance calculator for proper measurements.

3. Fixed installation

- 1) Drill a hole with the proper bit size according to the wood screws included.
- 2) Line up the wall brackets with the drilled holes on the installation location and screw them in using a Phillips screwdriver.
- 3) Position the frame screen onto the *wall brackets (F)* as shown **below**.
- 4) The design of the wall brackets allows the frame to slide over them through its sides. This is an important feature of the installation design as it allows your screen to be properly centered.



For a local Changhong Screens contact or Technical Support, please visit

Laser.changhong.com