



Dark Star® UST eFinity Series

EDGE FREE® Ambient/Ceiling Light Rejecting
Ultra-Short Throw Fixed Frame Projection Screen

USER'S GUIDE

Product Description:

The *DarkStar® UST Series* is an ultra-short throw fixed frame projection screen that uses EPV's EDGE FREE® technology. It is designed for **Ultra-Short Throw Projectors only**, for use in environments where ceiling light cannot be entirely controlled. It includes an LED backlight kit and an ultra-thin bezel to further enhance the frame appearance.

Screen Maintenance

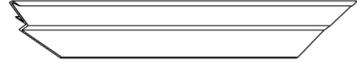
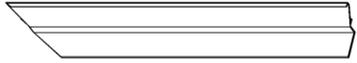
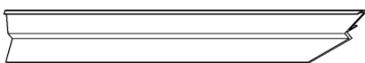
Dust, dirt and scratches on the projection screen surface will affect the quality and performance of the projection image. For optimal results we advise to pay attention to the following instructions.

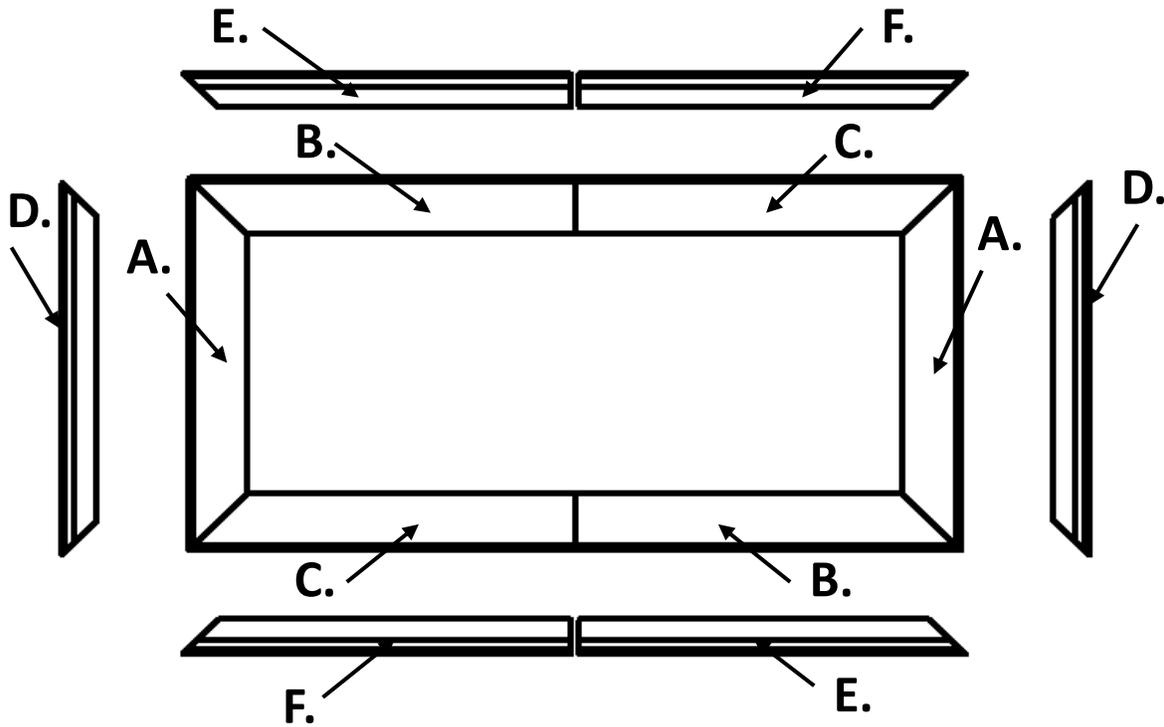
- 1) The screen surface has a horizontal lens structure. **DO NOT** wipe the screen up and down or in a circular motion. *Wipe very gently from left to right only.*
- 2) Please clean the dust on the screen surface with a soft brush or microfiber cloth (rough towel or cloth may damage the screen's surface).
- 3) Gently wipe the screen with a moistened microfiber cloth with mild soap diluted in water.

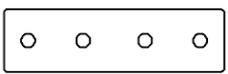
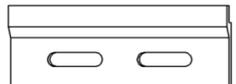
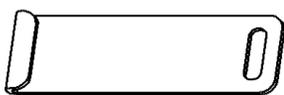
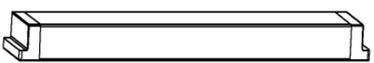
Notes:

The following precautions should always be followed 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.

1. Frame and Edge Trim Parts List			
Qty item	2 pcs Main Frame Parts	Qty item	2 pcs Edge Trim Parts
Part A.	vertical frame 	Part D.	
Part B.	½ horizontal frame 	Part E.	
Part C.	½ horizontal frame 	Part F.	



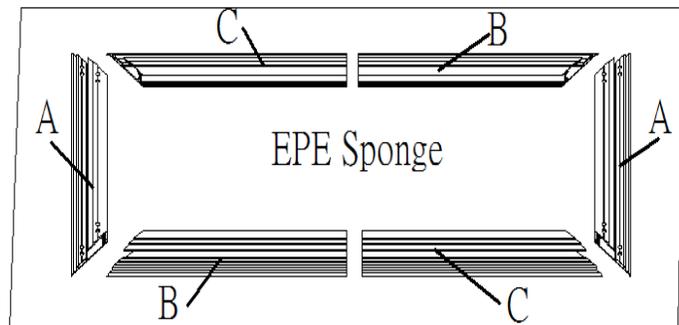
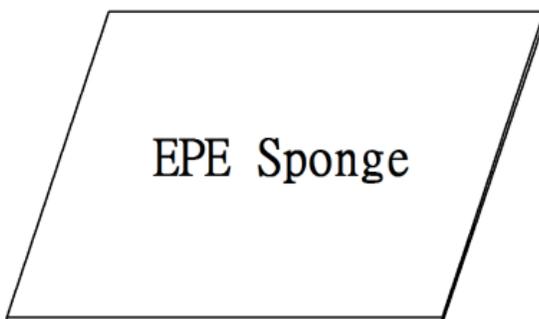
2. Hardware Parts List				
a. 	b. 	c. 	d. 	
e. 	f. 	g. 	h. 	i. 
j. 	k. 	l. 	m. 	n. 

Item	Parts List	EF100HUST-DS	EF120HUST-DS
a.	Center Joints (1)	4	4
b.	Elbow Joints (2)	8	8
c.	M4x6 Screws	60	60
d.	Spring Hook	2	2
e.	Spring (pre-installed)	60	68
f.	Top wall brackets	2	2
g.	M5x50 Wall Screws	6	6
h.	Hollow Wall anchors	6	6
i.	Bottom wall brackets	2	2
j.	Angle cover	4	4
k.	LED light strip clip	24	24
l.	Center Support Bar	1	1
m.	White gloves	2	2
n.	Fiberglass Rod	6	6

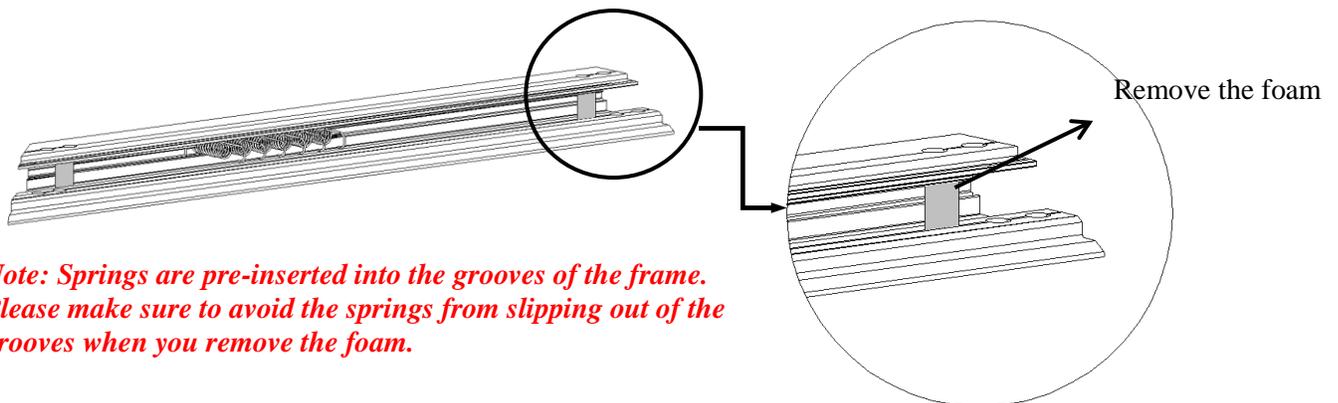
Frame Assembly

Step 1: Place the soft padded EPE sponge on clean area on the ground where the screen will be assembled.

Step 2: Position the pieces of the frame on the EPE sponge in the arrangement shown below

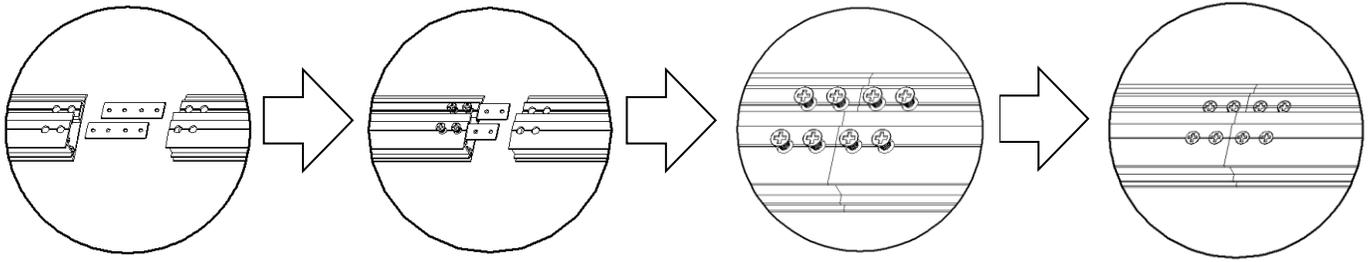


Step 3: Remove the foam in all frame ends before assembling the frame

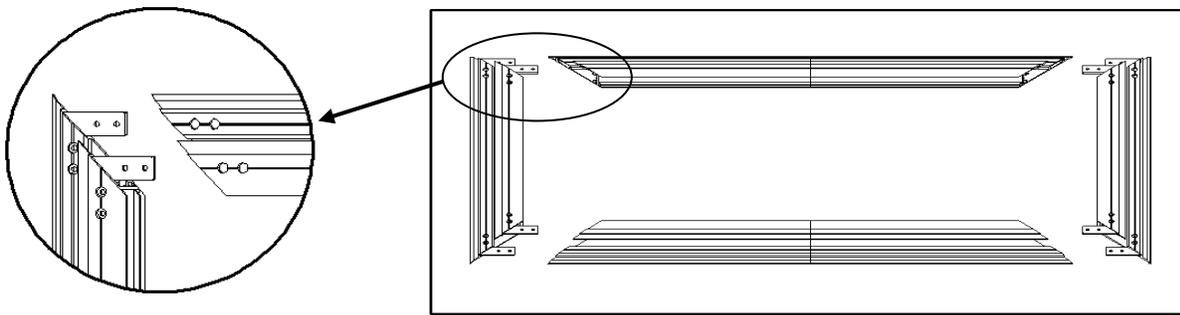


Note: Springs are pre-inserted into the grooves of the frame. Please make sure to avoid the springs from slipping out of the grooves when you remove the foam.

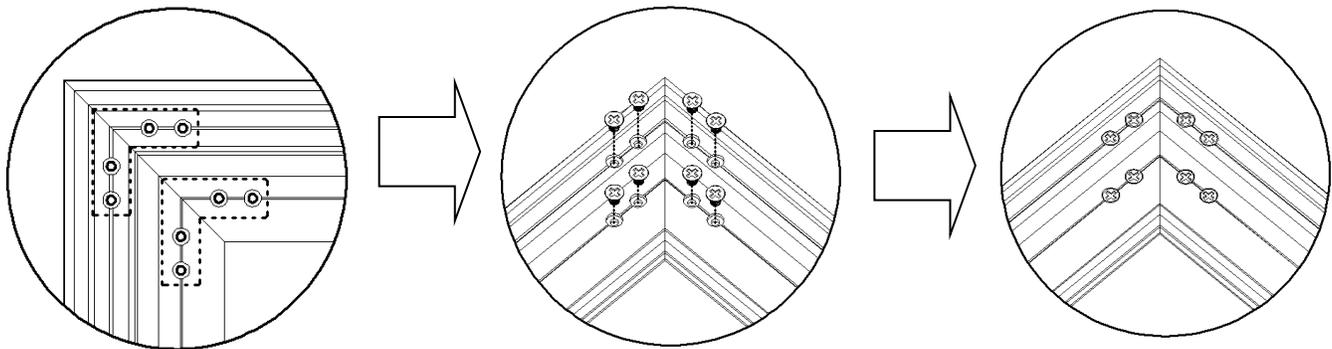
Step 4: Insert the *center joint (a)* connectors into *one-half of the horizontal frame (b/c)* and secure with the *M4x6 screws (c)*.



Step 5: Connect the *elbow joints (b)* to the top and bottom sections of the vertical frame. Once inserted, connect the vertical sections of the horizontal frame sections. Make sure all holes are in alignment and the frame pieces are flush (no gaps). They should form perfect right angles.



Step 6: Secure the elbow joints by fastening them with *M4x6 screws (c)*, 4 at each corner.

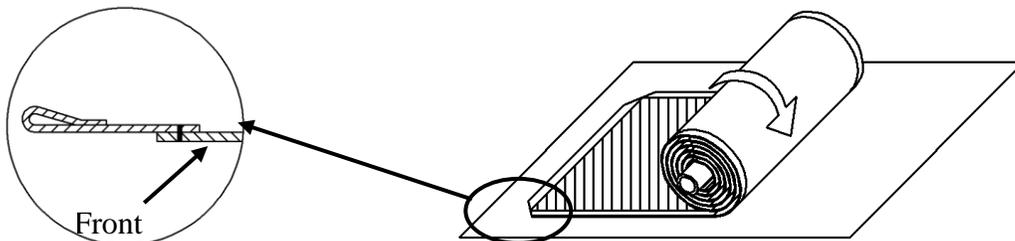


Screen Material

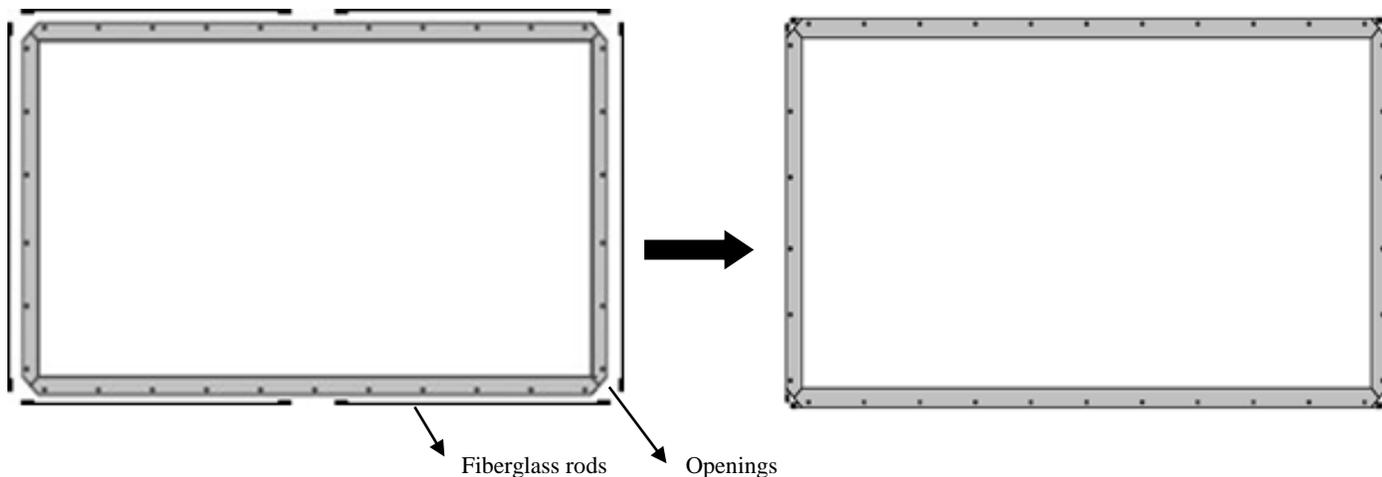
Please read this important note before proceeding with the installation process of the material.

Before handling the Dark Star® UST material, put on the supplied pair of white gloves to avoid leaving fingerprint marks, dust or hand oil on the material's surface. The Dark Star® UST 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.

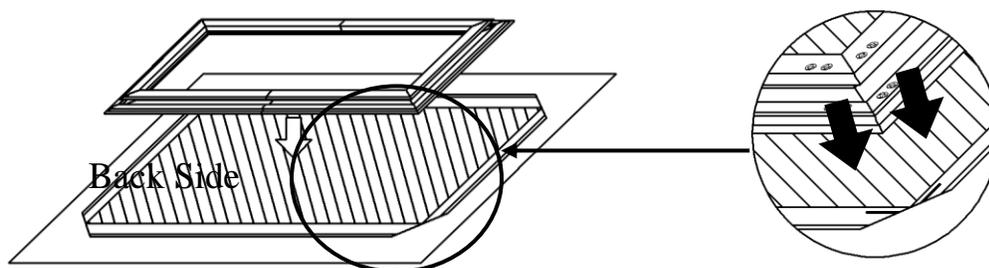
Step 7: Put on the *white gloves (m)* and carefully unroll the screen material on a clean surface from the roller to the other side as shown below. The back side of the screen material should be placed upwards.



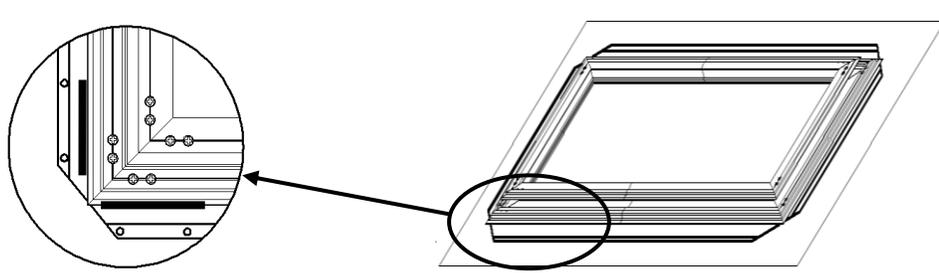
Step 8: Insert *the fiberglass rods (n)* through the openings. The longer rods are used on the vertical edges of the screen material, and the shorter rods are used on the horizontal edges, as shown below.



Step 9: Carefully and gently place the assembled frame on top of the screen material. Make sure to not allow the angle edge of the frame to come in direct contact with the screen material to avoid puncturing it.

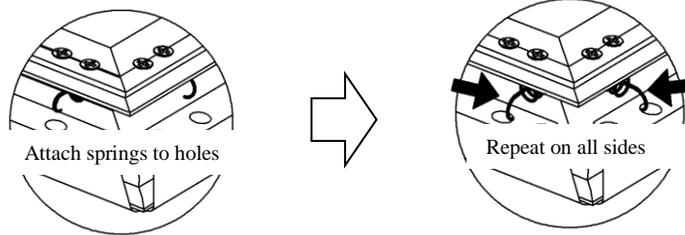


Note: Make sure all of the corners of the frame are aligned according to the markings on the back of the material as indicated below.



Step 10: Use the *spring hook (d)* to attach the *spring (e)* to the hole located on the screen material's outer edge in the following order. **Make sure the spring hook goes over the rod.**

Attach the four corners first (1).

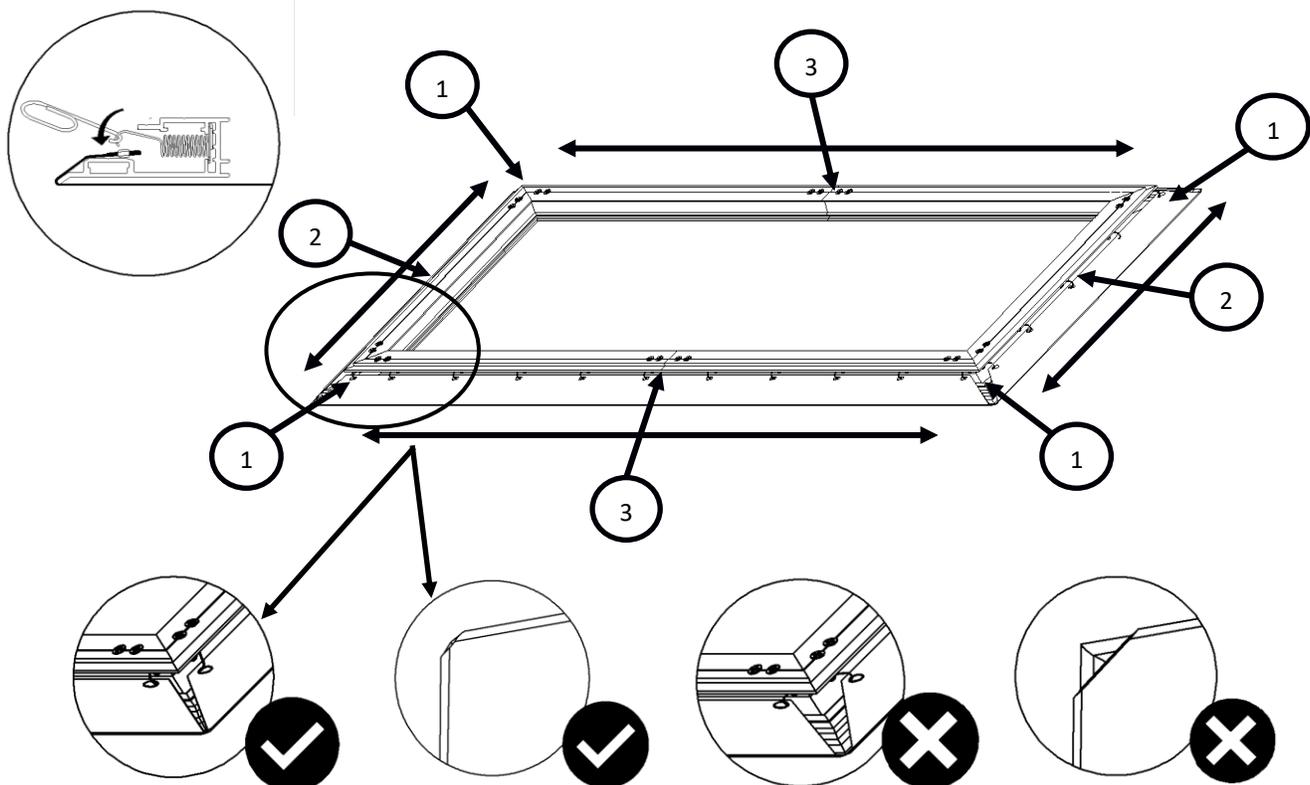


After those are secure, connect the vertical portions of the material, begin in the center and move towards the corners (2). Lastly, connect the horizontal sections of the material by connecting the center of the material and make your way towards the corners (3).

Note (after all springs have been attached):

Correct material installation –Corners of the screen material are properly wrapped around the corner edges of the frame and material is evenly tensioned and flat, creating a nicely taut surface.

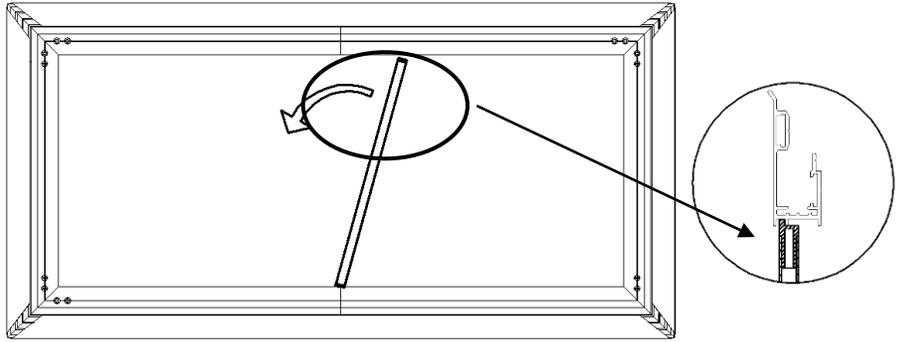
Incorrect material installation –The corners of the screen material are not properly wrapped along the edge of the frame leaving the material with unbalanced tension and an uneven finish. To correct, detach springs from material at the corner(s) where material does not lie flat along the edge of the frame, reposition the material so that it lies flat and wraps along the edge of the frame, and reattach springs to the material.



To avoid ripples forming in the material it is imperative that all the corners are properly wrapped around the edges as illustrated in the check mark diagrams above.

Center Support Bar

Step 11: Insert the *Center Support Bar (i)* into the upper top groove on the back of the frame with the bottom end near the approximate center point of the frame and rotate it in at an angle so that both ends of the bar are in alignment with the groove.



Attention: Do not proceed with the Edge Trim installation until making sure there are no ripples in the material.

Pre-check prior to Edge Trim Installation

Correctly distinguish the top and bottom of the DarkStar® UST material. Place the assembled screen on the ground. Look down on the screen. If the material looks white/gray as shown below then it is correct.

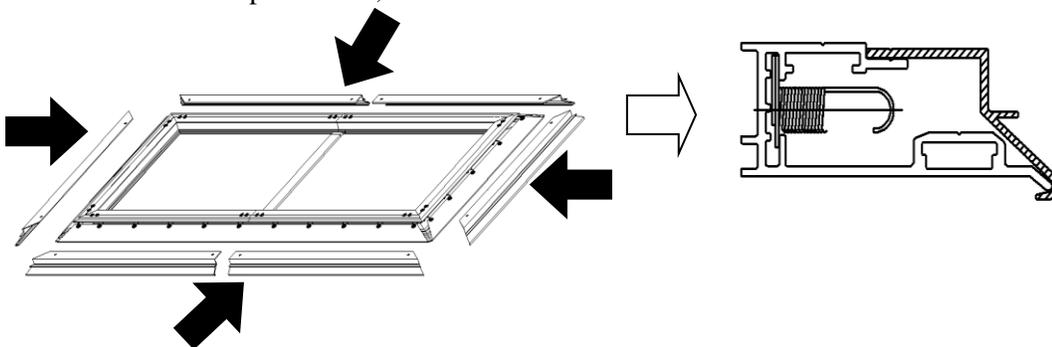


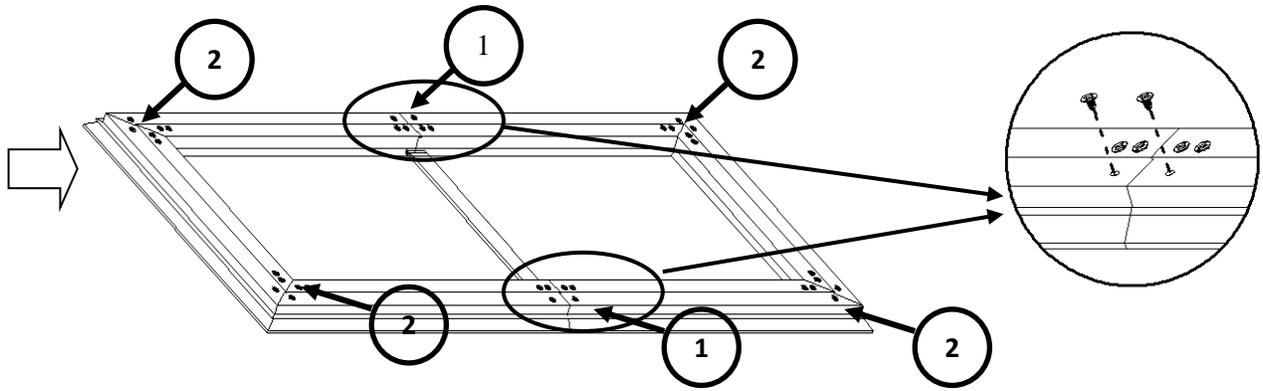
If the material looks black as shown below, then it is upside down.



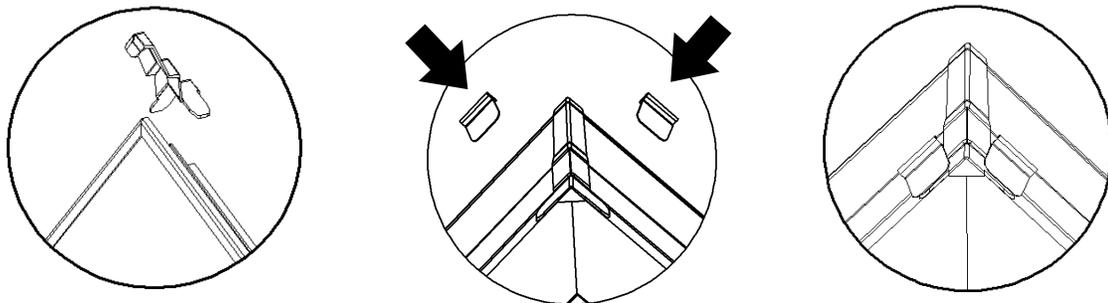
Edge Trim Installation

Step 12: Place the *Edge Trim* over each end of the frame and secure with *M4x6 screws (c)*. Start with the center points first, then the rest of the corners as shown below.



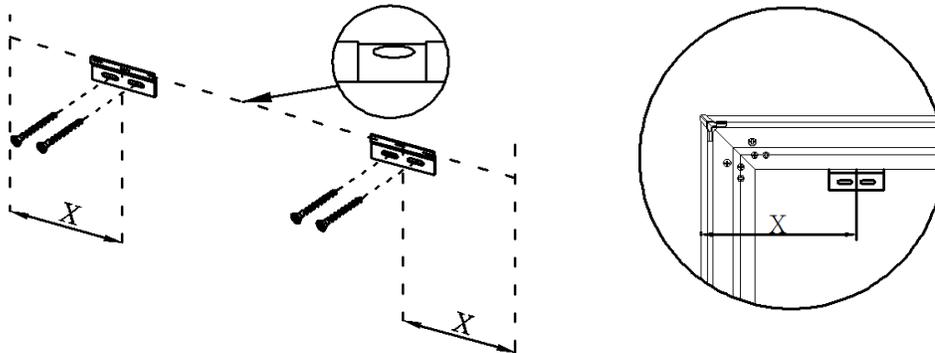


Step 13: Install the *angle cover (j)* on each corner of the frame and install the LED light strip to hold down the angle cover (or just use the clips if LED kit will not be installed). Then insert the *LED light clip (l)* to hold the LED light strip in place.

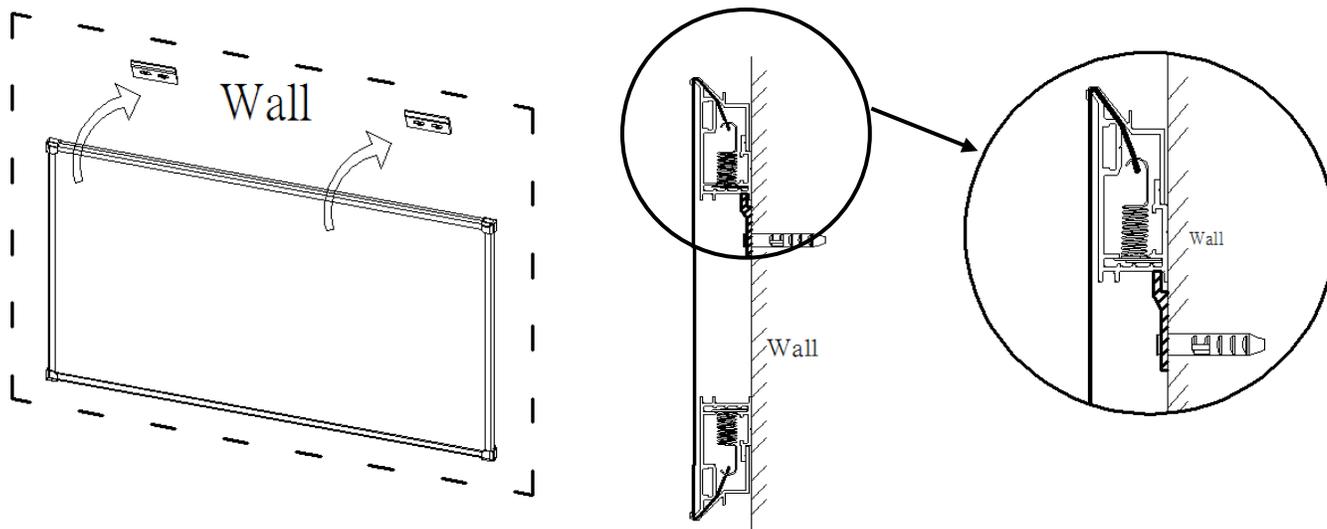


Wall Installation

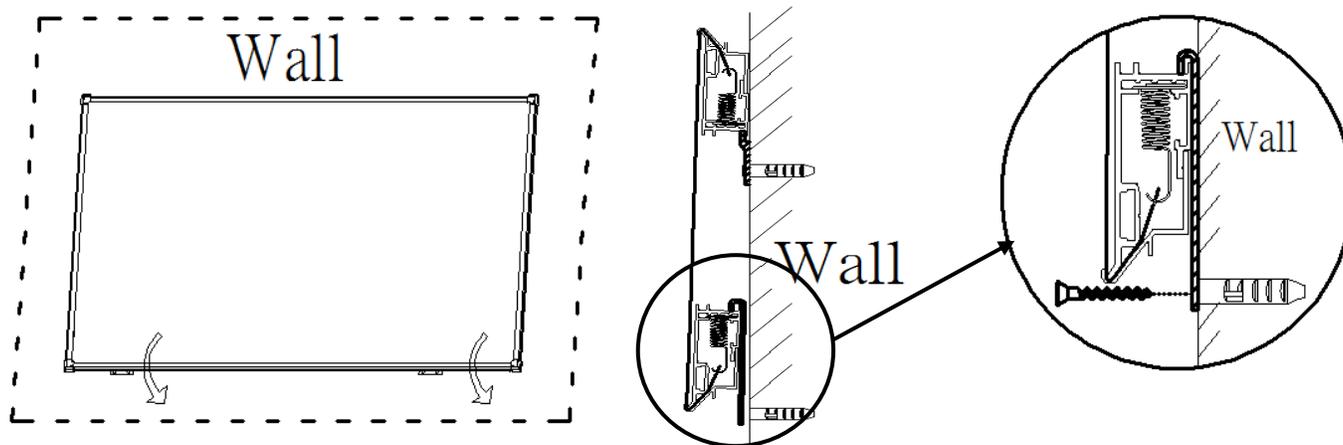
Step 14: Measure the overall length and height of the frame and drill holes for the top brackets. Line up the wall brackets with the drilled holes on the installation location and screw them in using a Phillips screwdriver. If not installing into a structural wood stud, use a hollow wall anchor then screw in the M5x50 wood screws with a screwdriver. Make sure the brackets are leveled.



Step 15: Position the fixed frame screen onto the top wall brackets as shown below and push down at the center of the top of the frame to secure.



Step 16: With the frame slightly tilted outward; connect the bottom brackets onto the bottom groove of the frame. Then secure them by screwing onto the wall.



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