



Aeon CineGrey 3D® AT Series

*Ceiling Ambient Light Rejecting Acoustically
Transparent EDGE FREE® Fixed Frame Screen*

USER'S GUIDE

V2

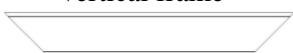




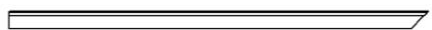
Product Description:

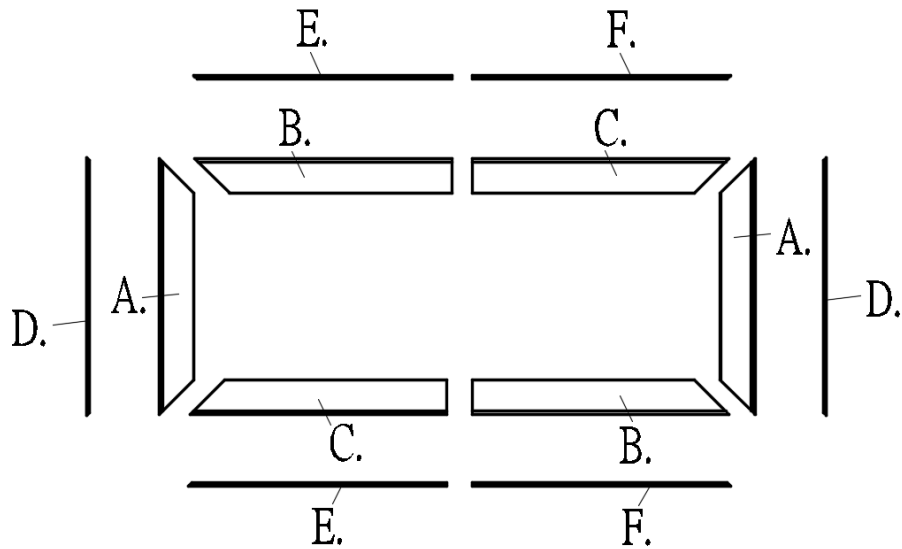
The **Aeon Series** is a fixed frame projection screen that uses Elite's EDGE FREE® technology. The EDGE FREE® design resembles a giant size flat panel TV display. The **Aeon** includes a bezel trim to further enhance the frame appearance and absorb projector overshoot. An optional LED kit is available for backlighting.

Congratulations on your new Aeon CineGrey 3D® AT purchase! The **ISF Certified CineGrey 3D® AT** is an ambient and ceiling light rejecting (ALR/CLR®) front projection screen material that is perforated for acoustic transparency. It is precisely formulated for environments with minimal control over room lighting. It was designed to *enhance picture brightness, offer accurate color fidelity, improve contrast and allow sound to pass through.*

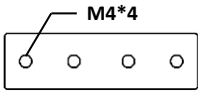
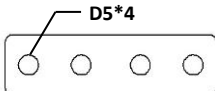
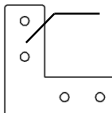
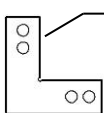
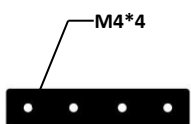














In order for the **CineGrey 3D® AT material** to maintain its projection qualities and provide optimum performance please refer to the list below for proper maintenance and cleaning.

- Use a dry microfiber cloth to remove dust from the screen's surface.
- When cleaning, use a damp microfiber cloth with warm water to remove any marks.
- Never rub or apply pressure when cleaning the surface.
- Never attempt to use any solutions, chemicals or abrasive cleaners on the screen surface.
- In order to avoid damaging the screen, avoid touching it directly with your fingers, pens/pencils or any other sharp or abrasive objects.

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

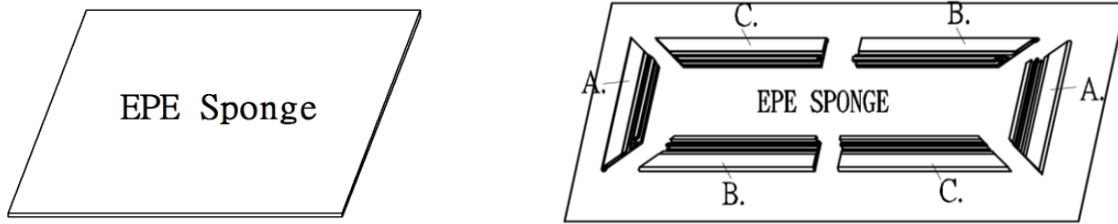
a. 	b. 	c. 	d. 
e. 	f. 	g. 	h. 
i. 	j. 	k. 	l. 
m. 	n. 	o. 	p. 
q. 	r. 	s. 	

Item	Parts List	AR100H	AR110H	AR120H
a.	Center Joints- M4 (bottom position)	2	2	2
b.	Center Joints-D5 (top position)	2	2	2
c.	Elbow Joints M4 (bottom position)	4	4	4
d.	Elbow Joints D5 (top position)	4	4	4
e.	Side cover Center Joints- M4	2	2	2
f.	Side cover Elbow Joints M4	4	4	4
g.	M4x7 Screws	24	24	24
h.	Spring	92	96	104
i.	Spring Hook	2	2	2
j.	wall brackets	4	4	4
k.	Φ5x50 Wall Screws	8	8	8
l.	Hollow Wall anchors	8	8	8
m.	M4x4 Screws	24	24	24
n.	Angle cover	4	4	4
o.	Center Support Bar	1	1	1
p.	White gloves	2	2	2
q.	Spring	4	4	4
r.	Bottom plastic eyelet	92	96	104
s.	Top plastic eyelet	92	96	104

Frame Assembly

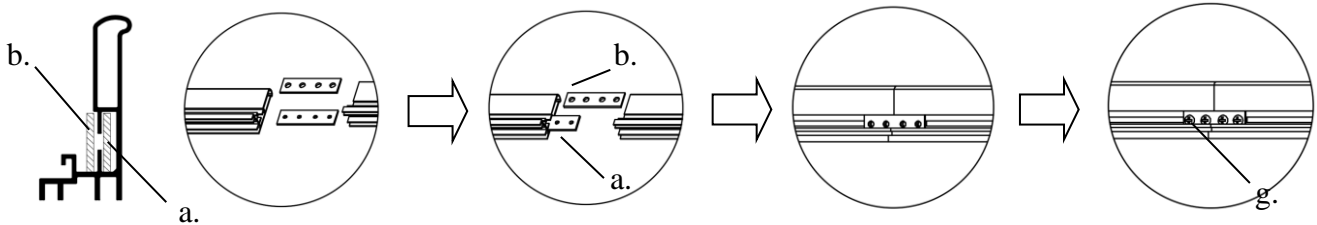
Step 1: Place the included soft padded EPE sponge sheet on a clean area where the screen will be assembled.

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



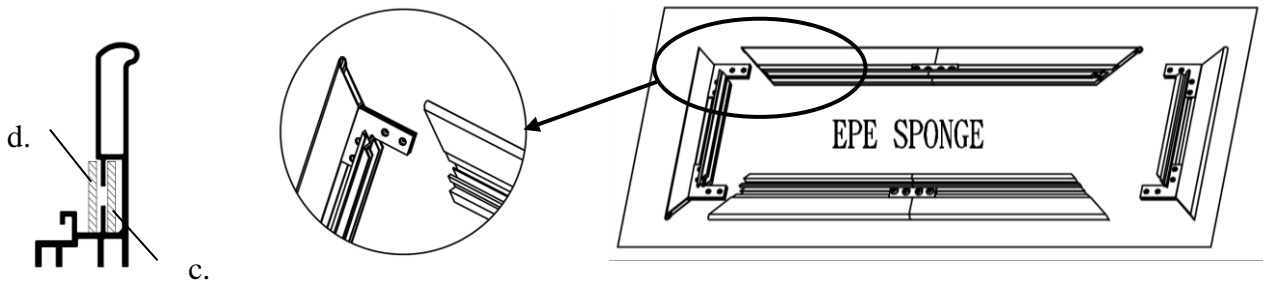
Step 3: Insert *center joint (a/b)* connectors into *one-half of the horizontal frame (B/C)* and secure with the **M4x7 screws (M)** as shown in the illustration below.

Tip: The elbow joint (d) with the larger diameter holes should be on top.

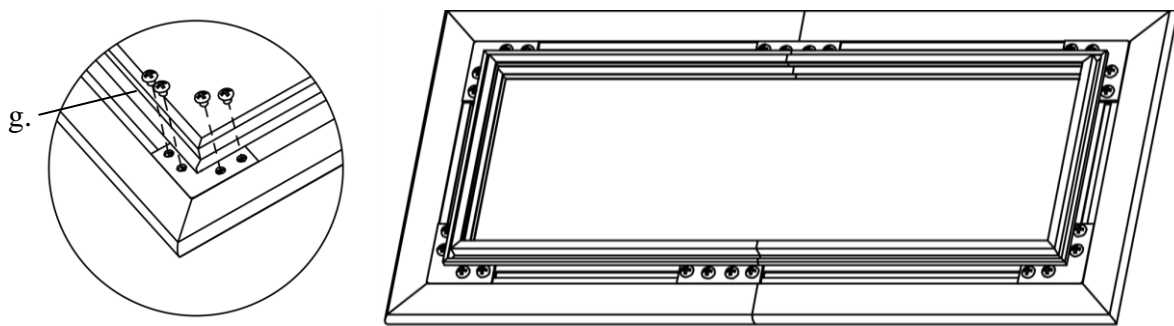


Step 4: Connect the *elbow joints (c/d)* to the top and bottom sections of the vertical frame. Once inserted, connect the vertical sections to the horizontal frame sections. Make sure all holes are in alignment and the frame pieces are flush (no gaps). They should form perfect right angles.

Tip: The elbow joint (d) with the larger diameter holes should be on top.

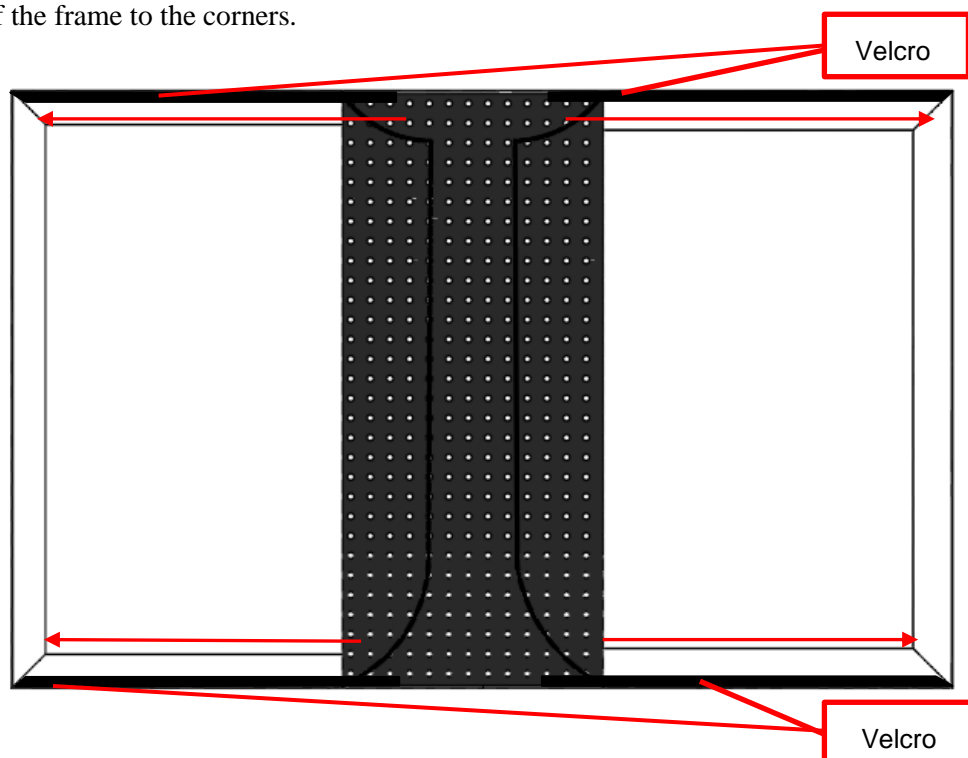


Step 5: Secure the elbow joints by fastening them with **M4x7 screws (g)**, 4 at each corner.



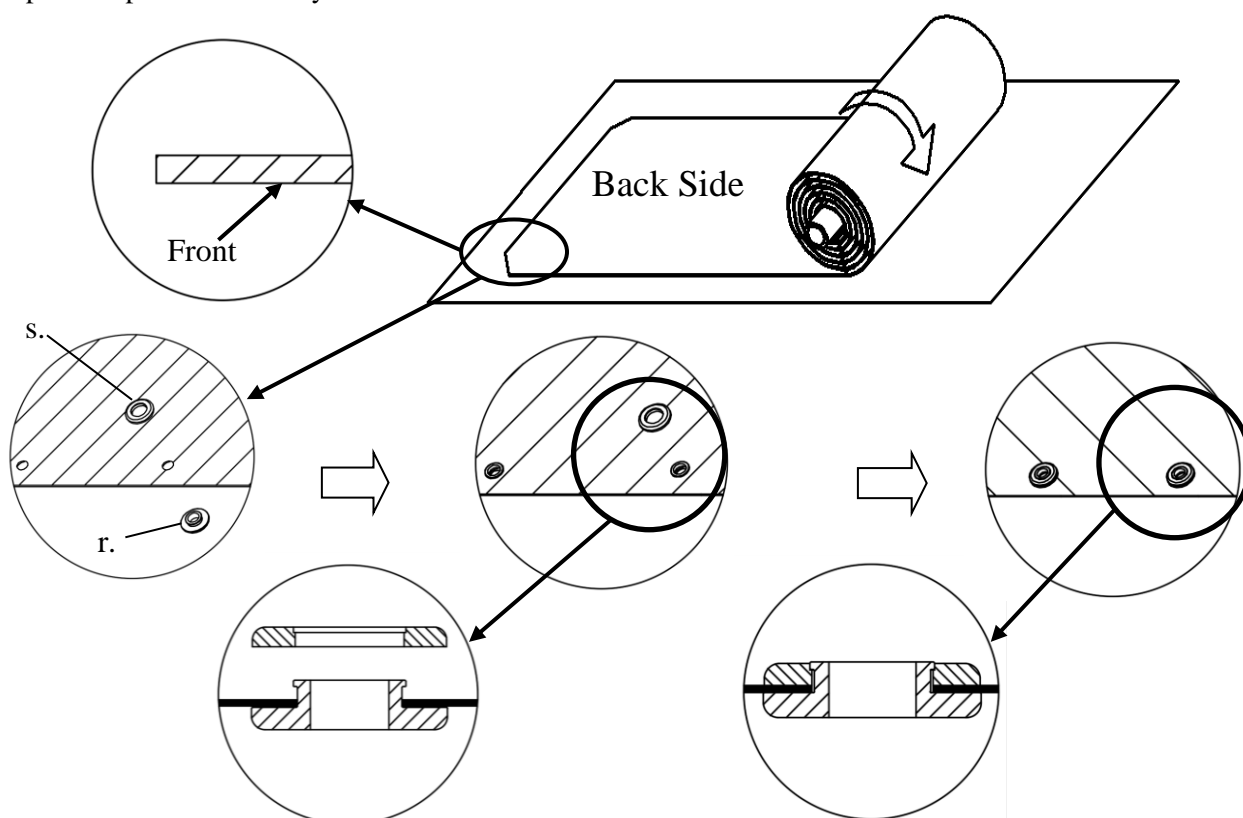
Screen Material

Step 6: Turn the frame over on its front side. Then attach the black blacking cloth on the frame with the velcro from the center of the frame to the corners.

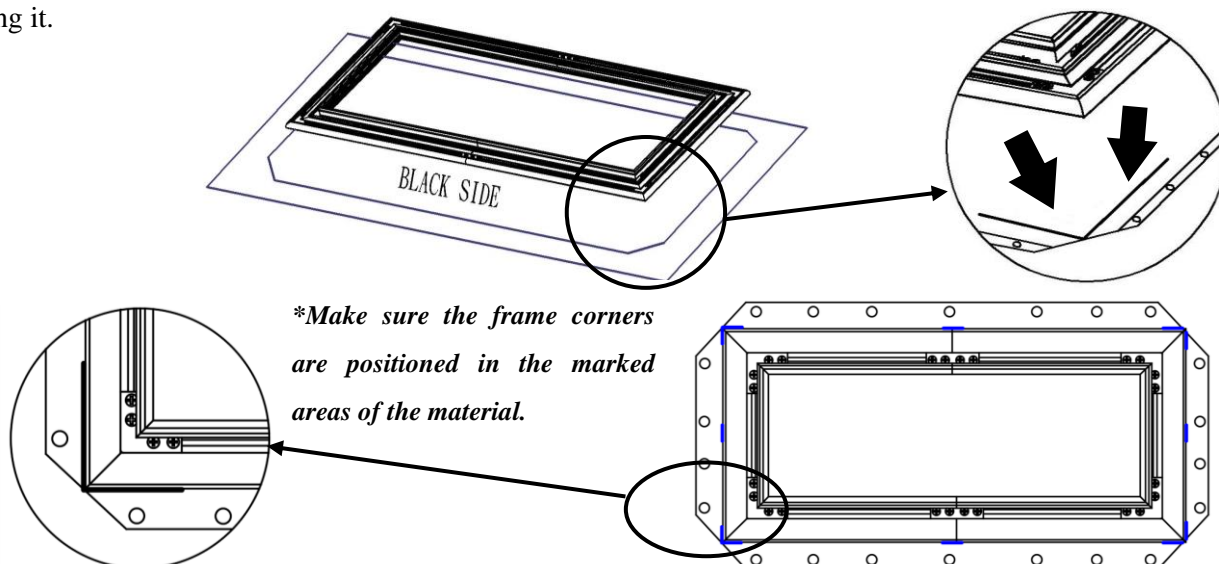


Step 7: Put on the *white gloves (p)* and carefully unroll the screen material on a clean surface from the roller to the other side as shown below. The back side of the screen material should be placed upwards.

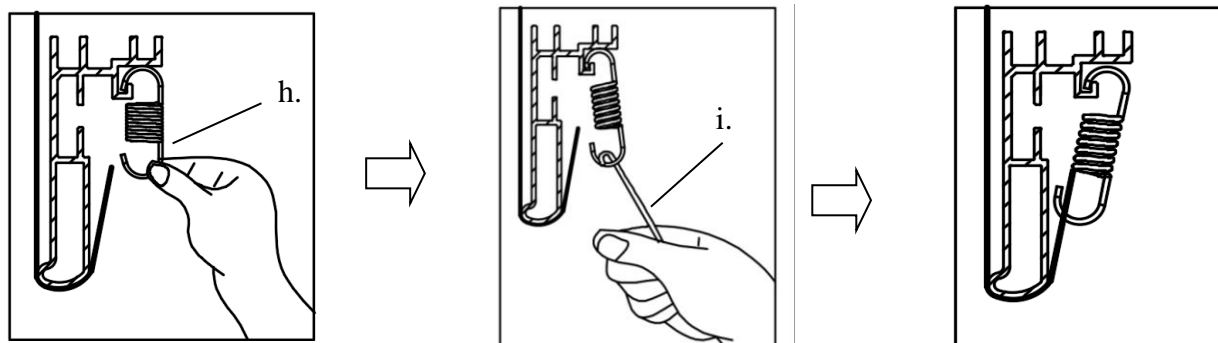
Then place a *bottom grommet (r)* on the screen material's eyelet and snap in the *top grommet (s)* as shown below. Repeat the process for all eyelets.



Step 8: Carefully and gently place the assembled frame on top of the screen material in the marked areas as shown below. Make sure to not allow the angle edge of the frame to come in direct contact with the screen material to avoid puncturing it.

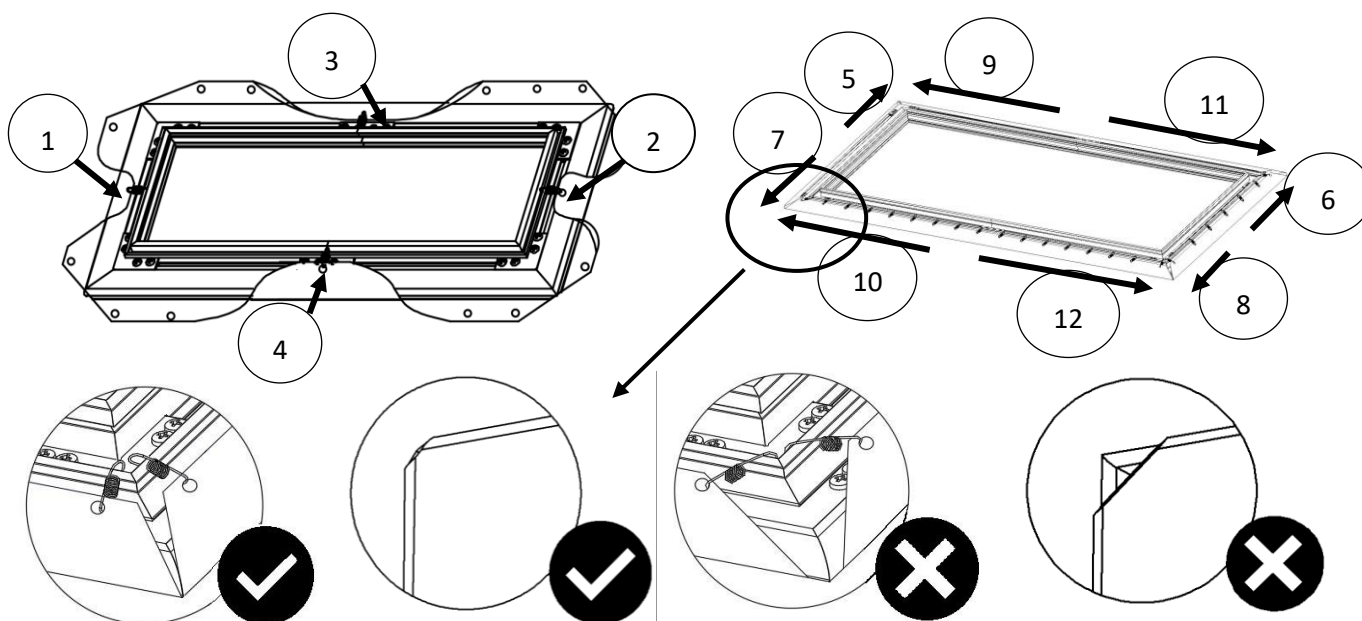


Step 9: Hook one end of the spring and secure inside the groove of the frame, use the *spring hook (h)* to attach the spring to the hole located on the screen material's outer edge in the following order.



Begin by first attaching the center points on both vertical (left/right) sides, **steps 1-2**. Then the center points on both horizontal (top/bottom) sides, **steps 3-4**. Once all center points have been secured, make sure the screen material is still within the marked areas before proceeding to attach the next springs.

Continue attaching the rest of the springs to the material in the following order in **steps 5-12**.



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

Note (after all springs have been attached):

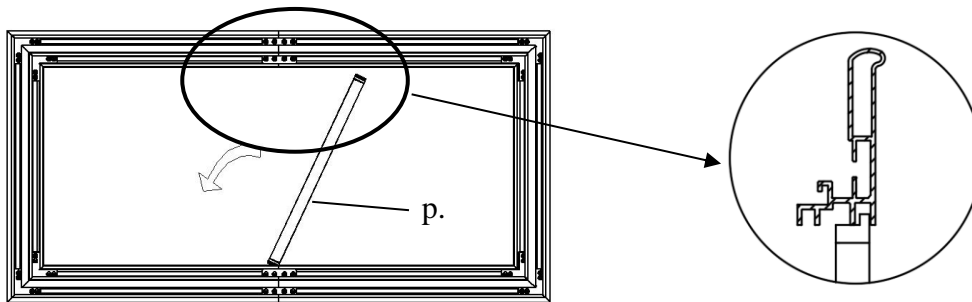
Correct material installation –Corners of the screen material are properly wrapped around the corner edges of the frame and material is evenly tensioned and flat, creating a nicely taut surface.

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.

Center Support Bar

Step 10: Insert the *Center Support Bar (o)* 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.

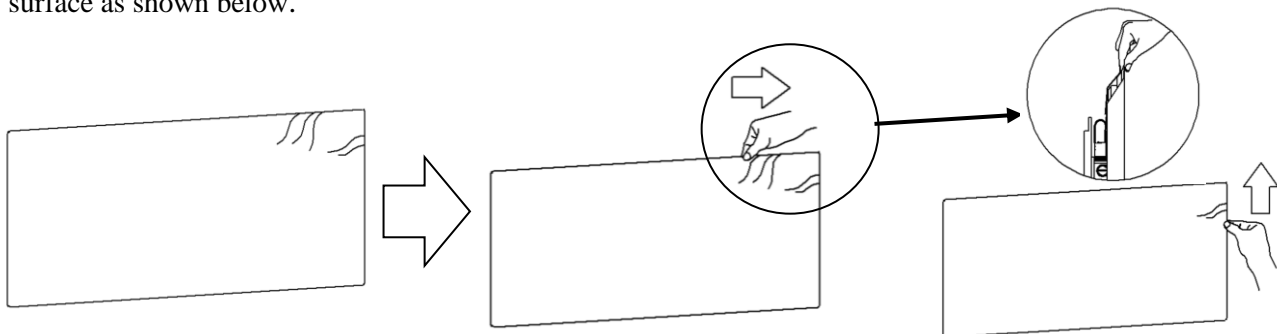
Diagonal Sizes of 150" and below use 1 x Center Support Bar



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

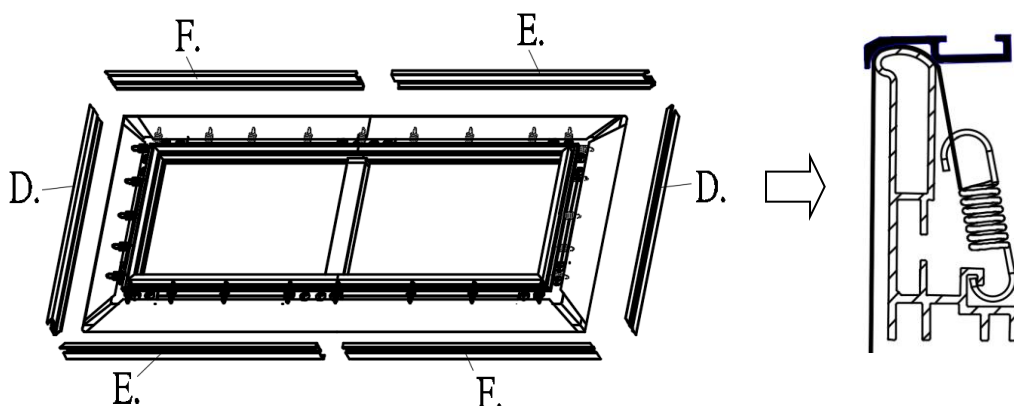
How to avoid getting ripples on the screen's material surface

Solution: Pull and smooth out the material using your hand from the center to the corners, creating a nicely taut surface as shown below.



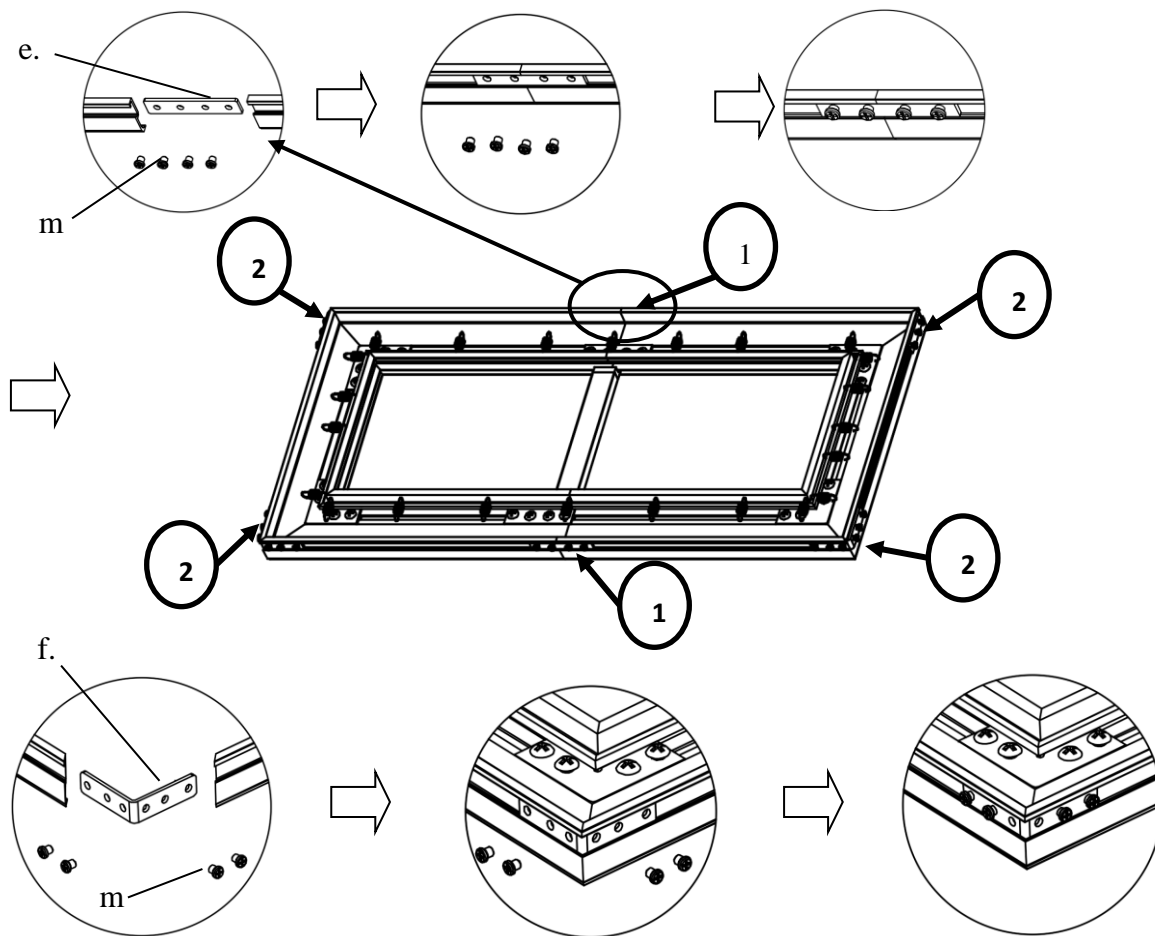
Edge Trim Installation

Step 10: Place the edge trim frame pieces over each end of the frame.

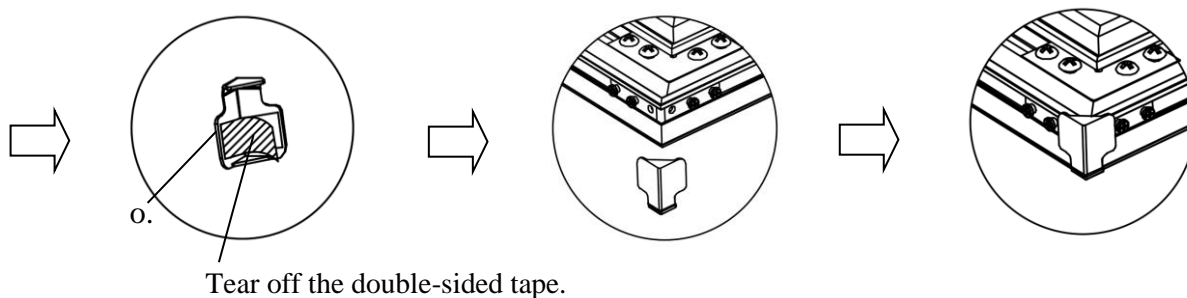


Connect edge trim frames (*e/f*) together using the **M4 center joint** (*e*) and secure with four of the **M4x4 screws** (*m*) as show in **Step 1**. Repeat for other side.

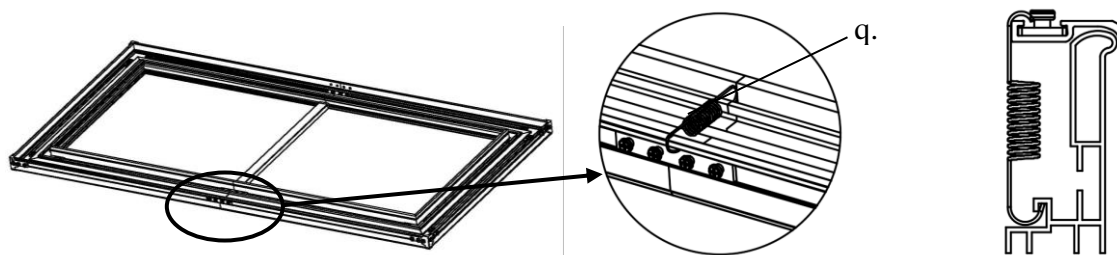
Once both top and bottom edge trim frames have been connected, attach the vertical (left/right) sides edge trim frames (*d*) using the **elbow joints** (*f*) and secure with four **M4x4 screws** (*m*) on all corners, **Step 2**.



Step 11: Install the **angle cover** (*n*) on each corner of the frame using the **M4x4 screws** (*m*).



Step 12: Install the **springs** (*q*) in each middle area to further support the bezel trim edge frame.



Notice to Installer:

Please use the following installation instructions to obtain superior optical performance from the CineGrey 3D® Angular Reflective ALR (Ambient Light Rejecting) Screen.

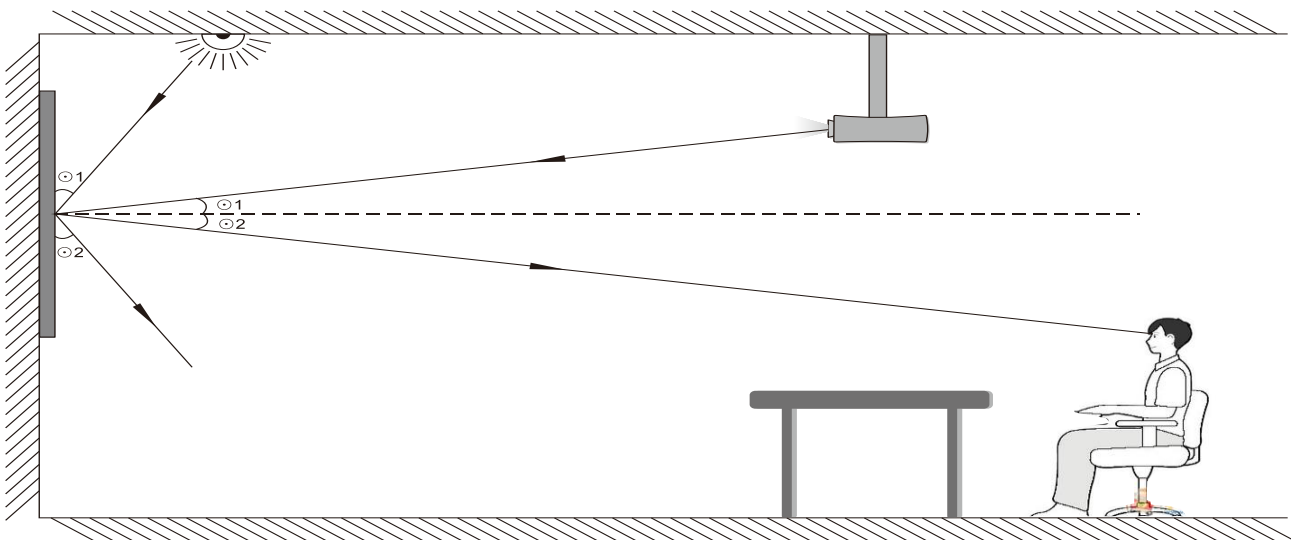
Make sure to follow these instructions in order for the CineGrey 3D® to perform correctly.

1. Ambient Light must not come from the same direction as the projector's light
2. Minimum Lens Throw Ratio of 0.8ximage width

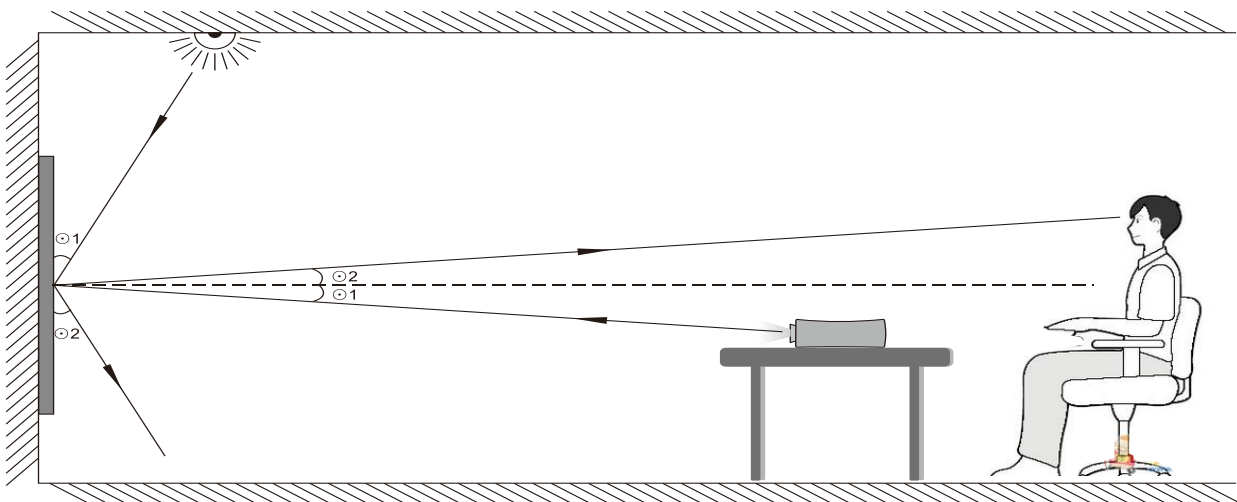
Note: To use short-throw projectors, you will need a minimum 0.8 lens throw ratio or greater

3. Not compatible with Ultra-Short Throw Projectors

Projector Ceiling Installation: Make sure the projector (*light in*) is angled ($\Theta 1$) to reflect ($\Theta 2$) at the mirror-opposite angle (*light out*) to align with the viewer's eye level.



Projector Tabletop: Make sure the projector (*light in*) is angled ($\Theta 1$) to reflect ($\Theta 2$) at the mirror-opposite angle (*light out*) to align with the viewer's eye level.

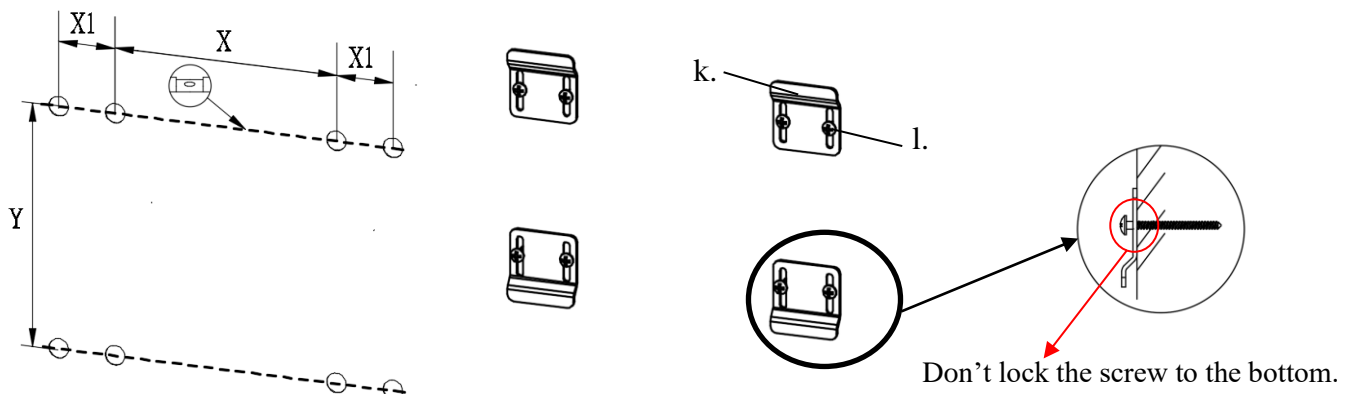


Images are not up to scale and are for illustrations purposes only.

Note: Improper installation will result in light loss and produce a dark image. This is due to the projector's light reflecting in the wrong direction.

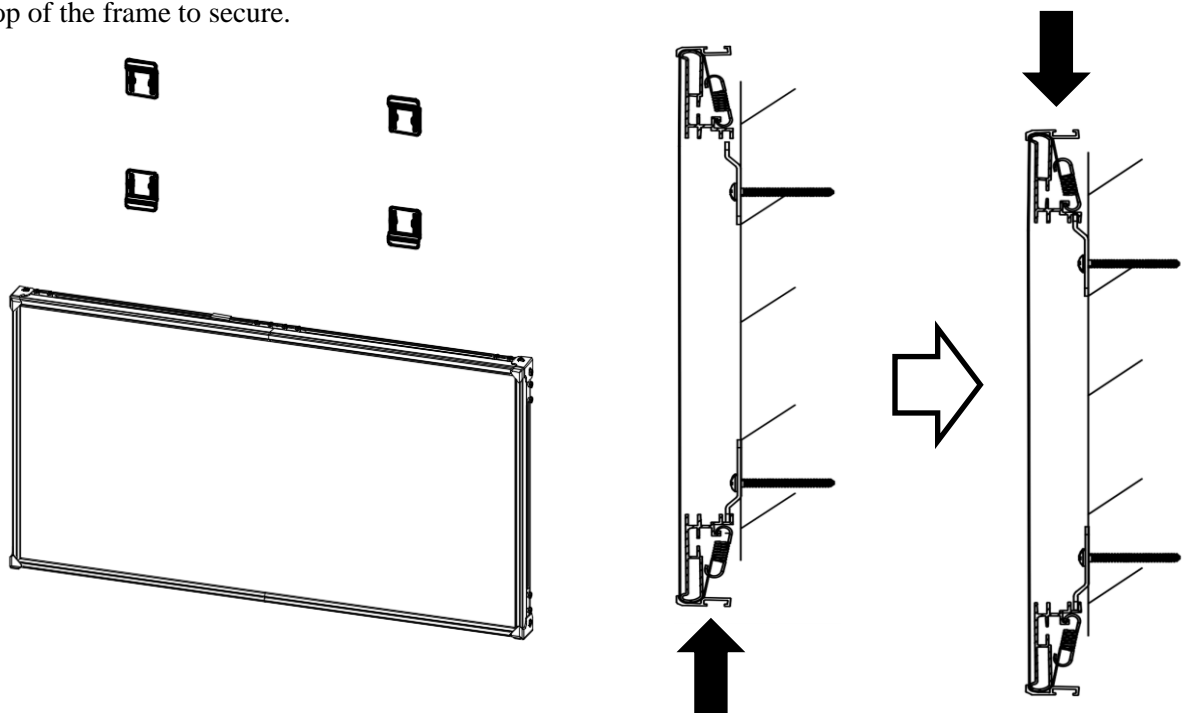
Wall Installation

Step 13: 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.



Model/Size	X = Wall bracket distance	X1 = Bracket hole distance	Y = Top/Bottom Wall Bracket Height
AR92H	1100mm (43.3")	30mm (1.18")	980mm (38.58")
AR100H	1200mm (47.24")	30mm (1.18")	1080mm (42.52")
AR110H	1300mm (51.18")	30mm (1.18")	1210mm (47.64")
AR120H	1400mm (55.12")	30mm (1.18")	1330mm (52.36")

Step 14: 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.



For Technical Support or an Elite Screens contact in your area, visit

www.elitescreens.com