



Ambient Light Rejecting Fixed Frame Screen

DARKSTAR®

Special Edition

User's Guide (V.2.4.1)

Attention:

The Dark Star Fixed Frame Screen material is composed of high quality sensitive multi-layer projection material. Please follow the precautions below for proper care procedures and to prolong the life of your screen.

Failure to use [these safeguards] will result in voiding your warranty.

1. Avoid using any chemical compounds or harsh abrasives which will result in permanently damaging the screen material.
2. Use only a soft microfiber cloth with mild soap and water to clean the screen material.
3. Please wear a pair of clean, powder-free glove in the process of installing and operating the screen to keep hand oil and dirt from being transferred to the viewing surface.
4. Be very careful when unrolling and handling the material. Lay the material flat only to avoid permanently creasing the material.
5. Do not rub the cloth with force when cleaning to avoid permanently scratching the surface.
6. Do not touch the screen surface with sharp objects or allow the screen surface to come in contact with anything other than the frame.
7. Use only a soft feathered brush to remove dust.
8. DarkStar material damaged in handling, installation, or use is not covered under warranty.

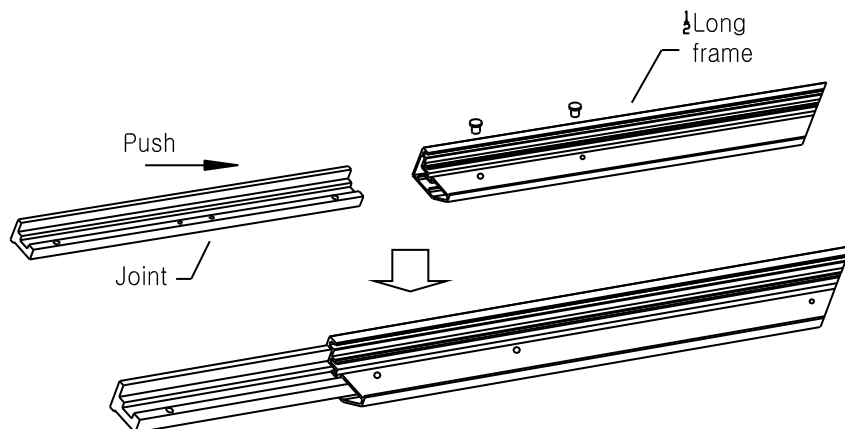
PARTS LIST

1. Frame Parts x's 6 pcs (4 top/bottom frame pcs. + 2 side frame pcs)
2. Tension Rods x's 6 pcs (4 top/bottom rods + 2 side rods)
3. Screen Material x's 1 pc
4. Center joints x's 2 pcs
5. Elbow Joints x's 4 pcs
6. Wall brackets x's 2-4 pcs
7. Screws x's 16 pcs
8. User Guide x's pc
9. Center Support Bar x's 1 – 2 pcs (depending on model/size)
10. Support joiner x's 2 – 4 pcs (depending on model/size)
11. Fix Plates x's 30 – 90 pcs (depending on model/size)

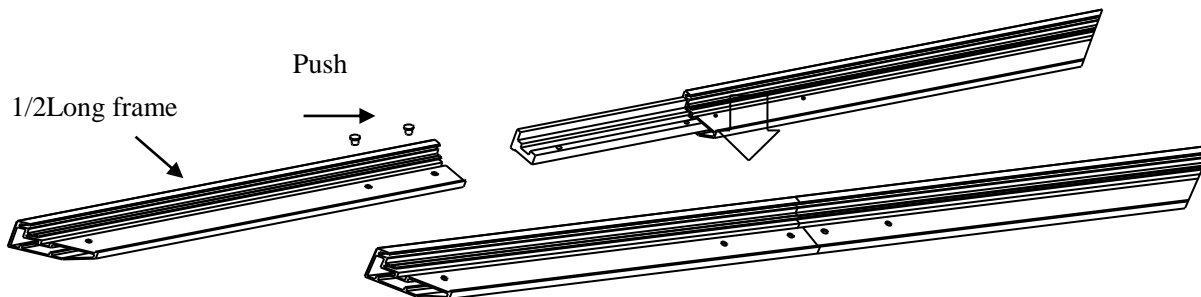
Note: Please make sure all parts are included in your package before proceeding to assemble your Elite Prime Vision DarkStar® fixed frame projection screen.

Frame Assembly

1. Insert the **center joint** connector to the horizontal frame piece and then fasten it with 2 screws.

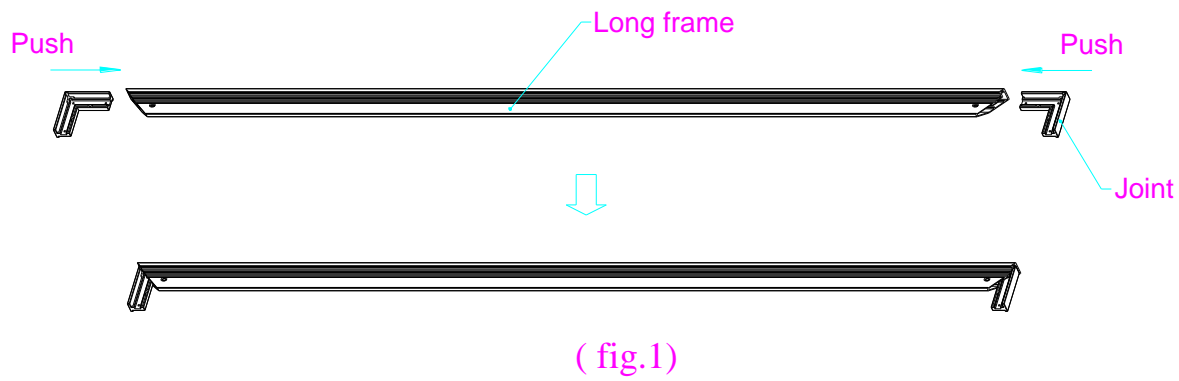


2. Insert the other horizontal frame piece to the **center joint** connector and then fasten it with 2 screws.

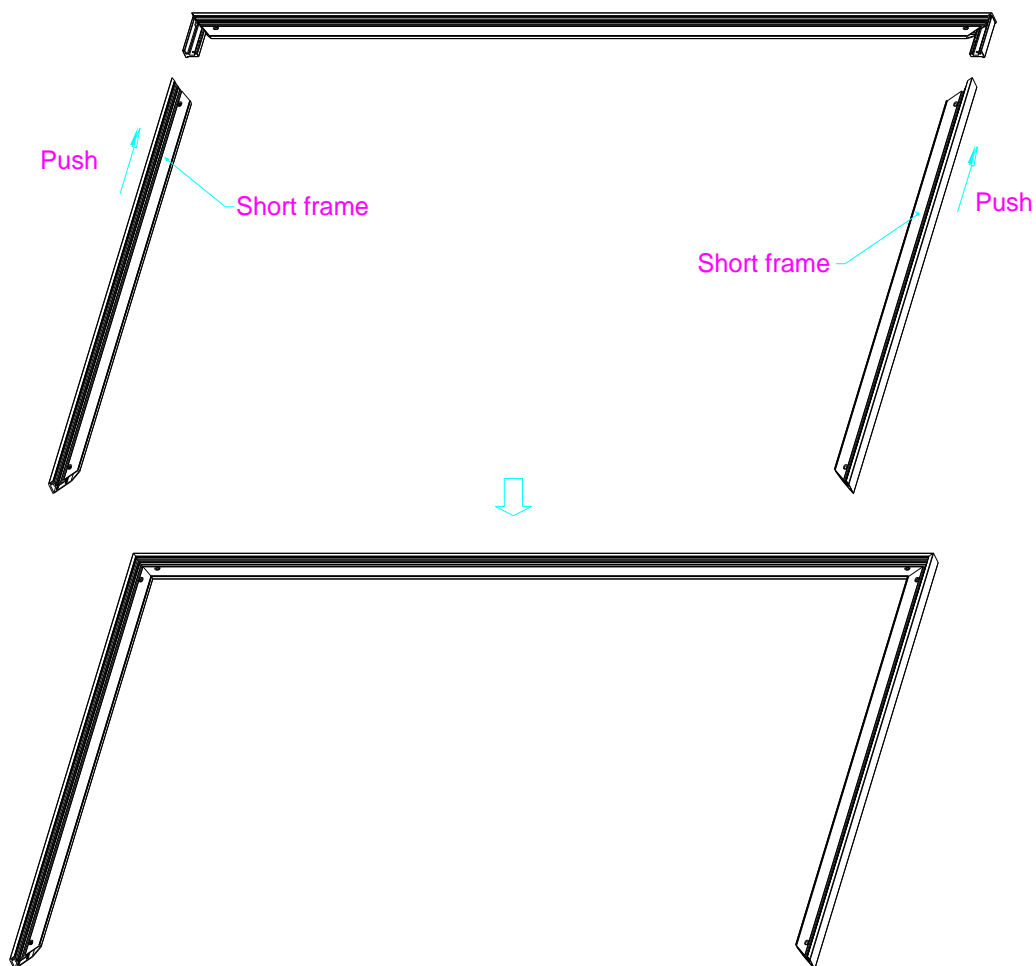


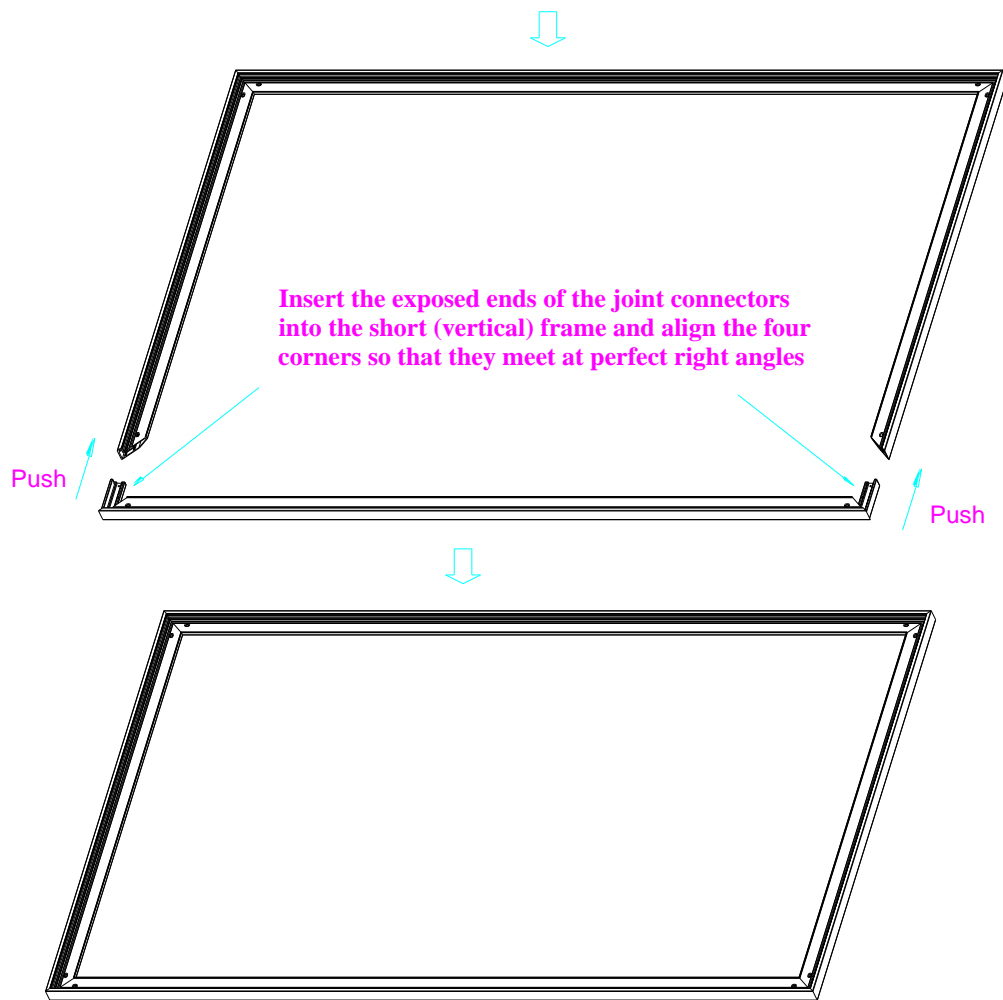
Make sure the frame piece lines up correctly before you tighten the screws completely.

3. Insert both **elbow joint** connectors into the long horizontal frame (**fig.1**).



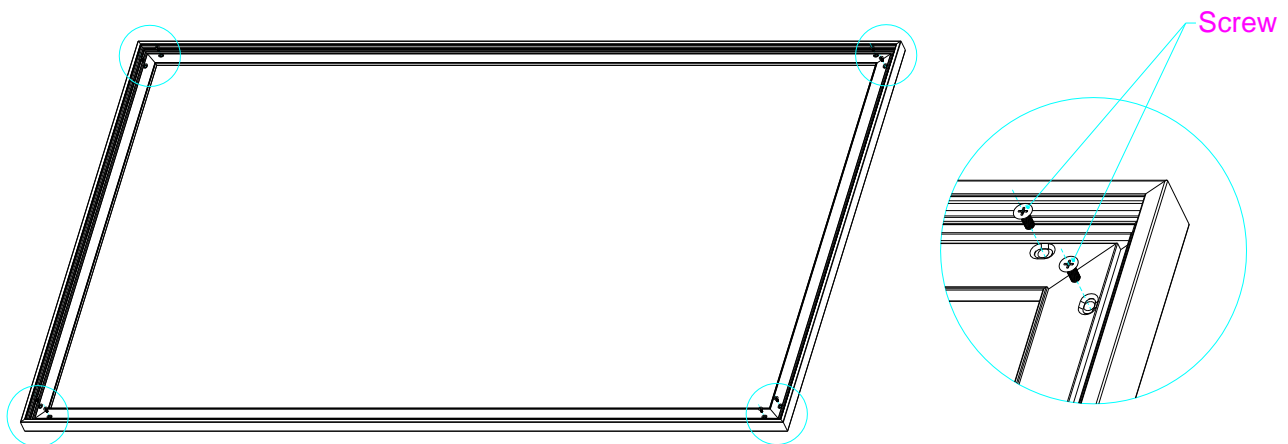
4. Join all four frame parts together following the steps showed below (**fig.2**).





(fig.2)

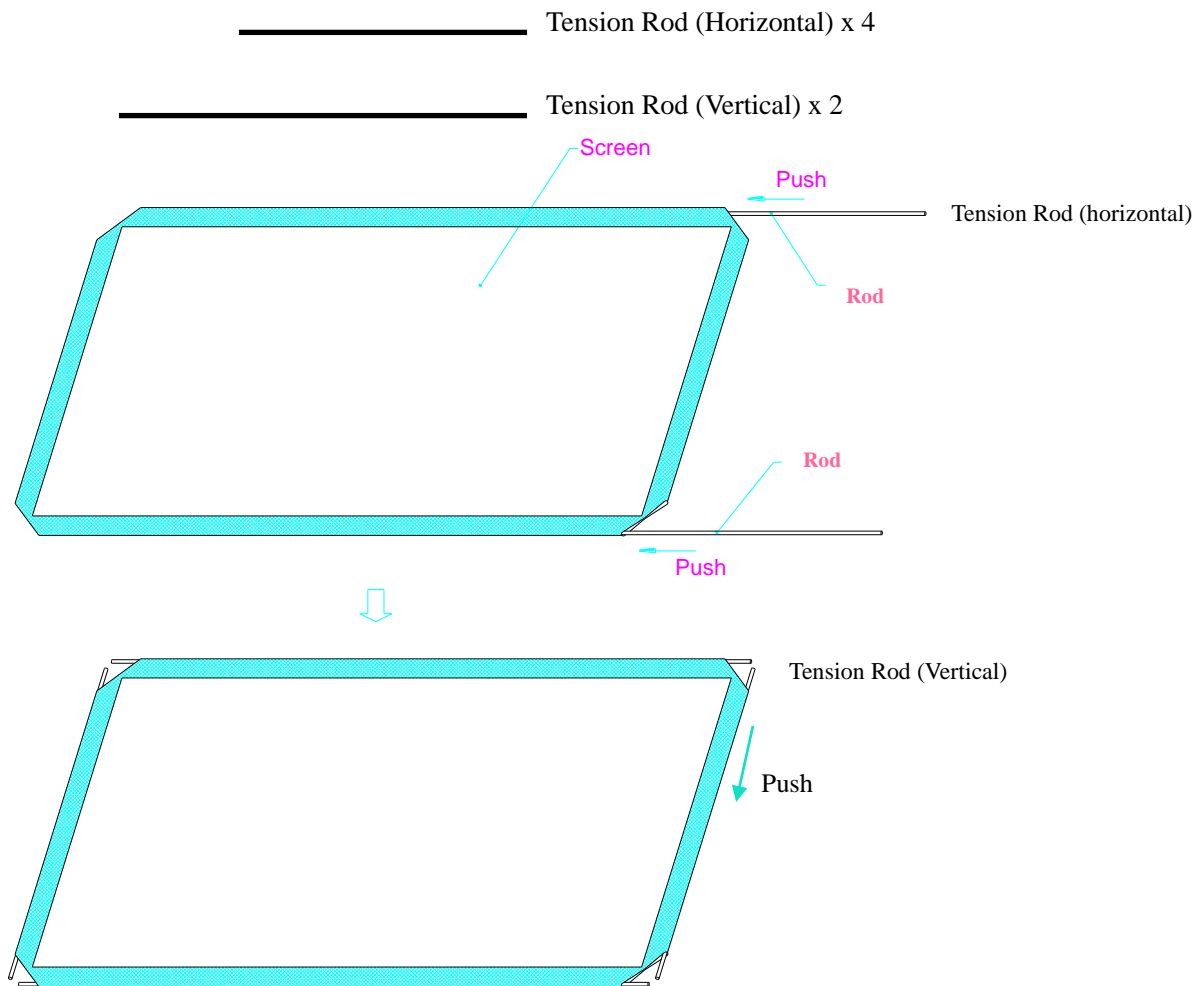
5. After making sure that all four corners join at right angles to form a perfect rectangle, fasten the four angles together by using the (x8) screws included (**fig.3**).



(fig.3)

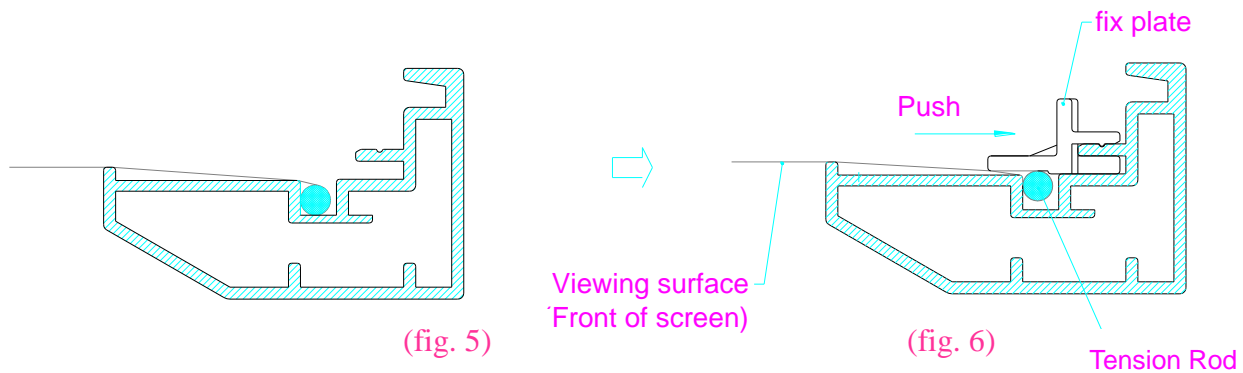
ATTACHING THE SCREEN MATERIAL TO THE FRAME

1. Lay out the screen and **tension rods** on a clean and dry surface. Insert the **tension rods** through the sleeves according to their corresponding lengths on each edge of the screen as seen below (**fig.4**).



(fig.4)

2. Place the screen material on the back of the built frame and slip the tension rods into the grooves running along each side on the back of the frame. Clip the **fix plates** to the back of the frame to secure the rods into place creating tension for a tight and flat surface (**fig. 5 & fig. 6**).

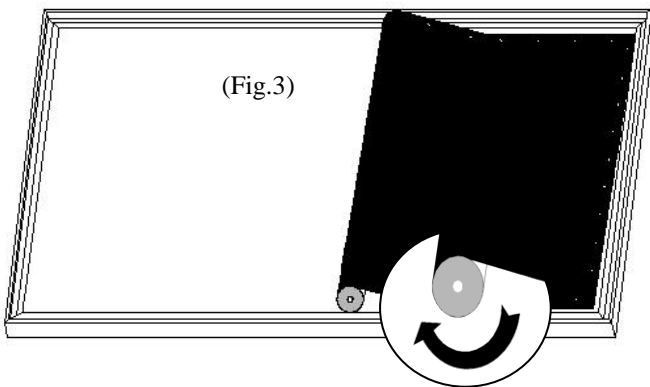


(fig. 5)

(fig. 6)

Attaching the screen material to the frame

1. Make sure the screen material and frame are both lying face down on a clean, dry, and non-abrasive surface.
2. Carefully unroll the material inside the frame. (Fig.3)

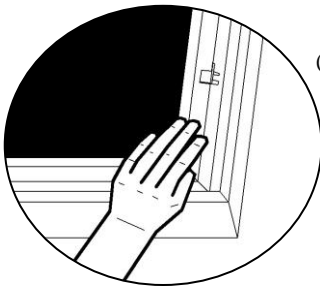


Notes:

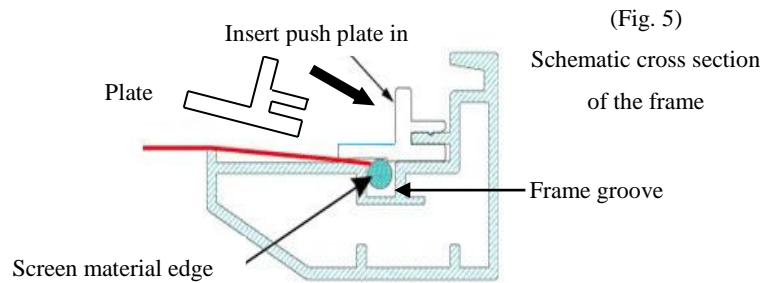
- Make note of the label to help distinguish the back and front side.
- Unroll the screen material face down
- Keep the screen material as close as possible to the frame and do not allow it to scratch against any part of the frame.

3. Attach the fix plates.

- (1) Stretch the material to the corner and insert the screen material's edge in the groove of the frame. While one hand holds the material in place the other hand snaps in the push plate (Fig.4-Fig.5).



(Fig. 4)

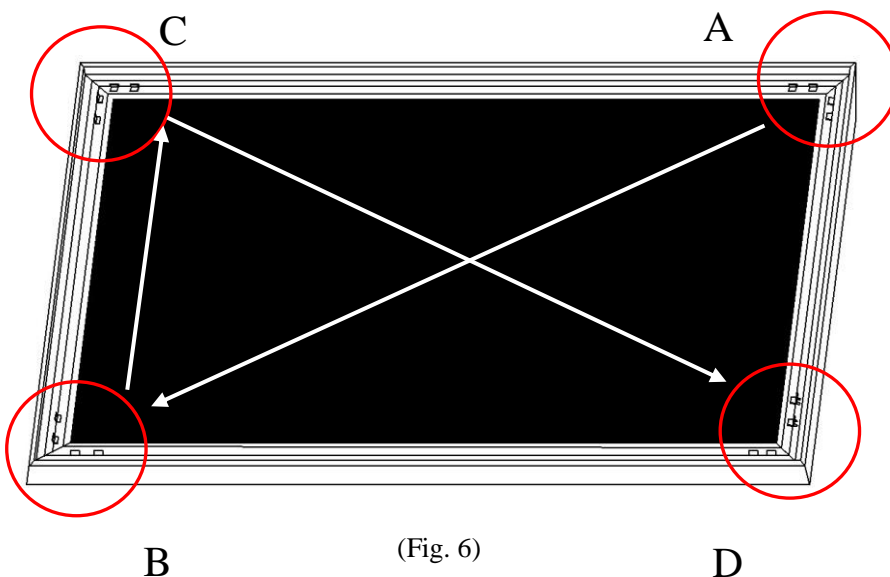


(Fig. 5)

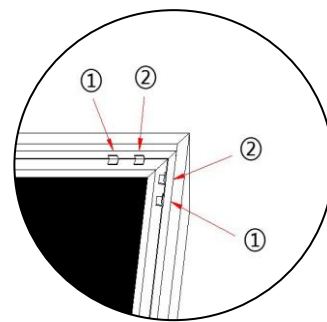
Schematic cross section of the frame

- (2) Begin by securing the four corners in the following sequence A→B→C→D (Fig.6).

- (3) Insert the fix the plates as shown on Fig. 5. Fix plate ① is about 10cm away from the frame's corner. Fix plate ② is about 5cm away. (Fig.7)



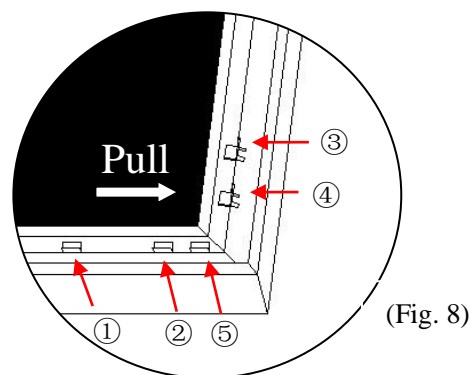
(Fig. 6)



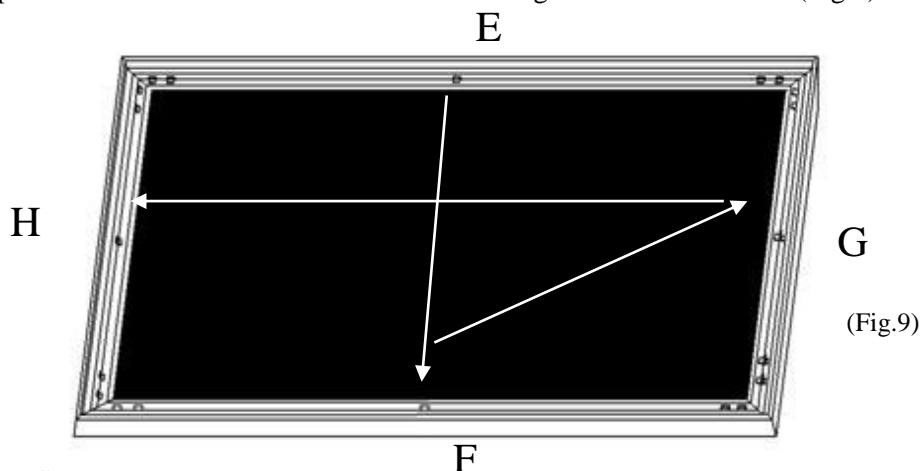
(Fig. 7)

Tip for attaching the last corner (D):

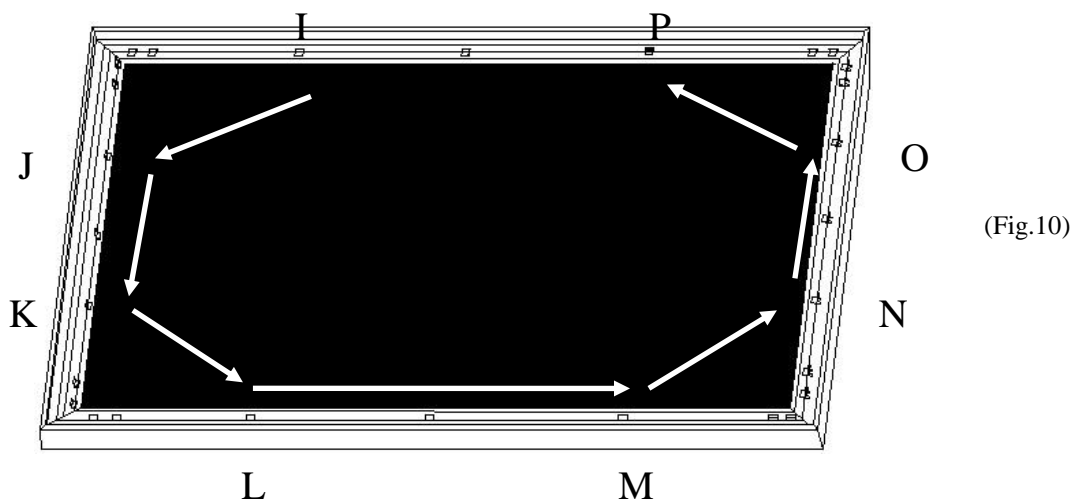
1. Position yourself left of location ①.
2. Pull the material to the corner of the frame with your hand while your left hand snaps in the fix plate on location ①
3. Then insert and snap in the fix plate on location②.
4. Next, move and position yourself on location ③, then pull the edge to the frame and fasten plates on locations③and④.
5. Finally, fasten the last fix plate on location⑤. (Fig.8)



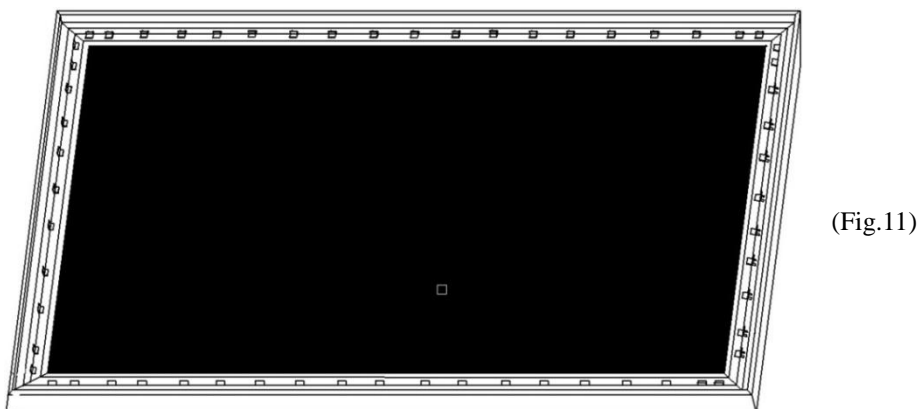
- (4) Place a fix plate in the center of each side in the following orderE→F→G→H. (Fig.9)



- (5) Next, fasten a fix plate on the center of each frame side in the following order I→J→K→L→M→N→O→P as shown in Fig.10.

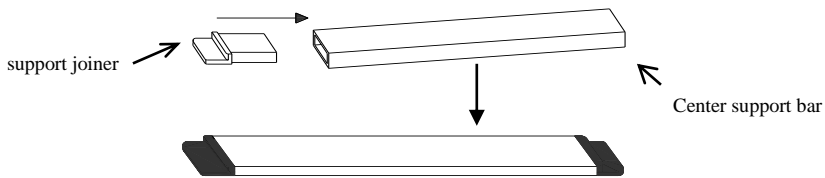


- (6) Fasten the remainder of the fix plates in the empty locations in the red markings to complete attaching the screen material. (Fig.11)



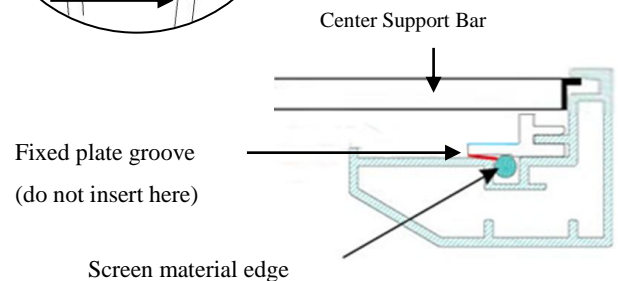
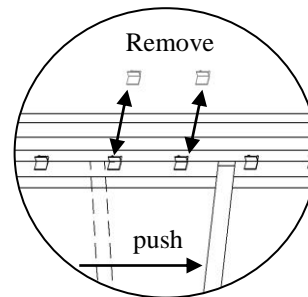
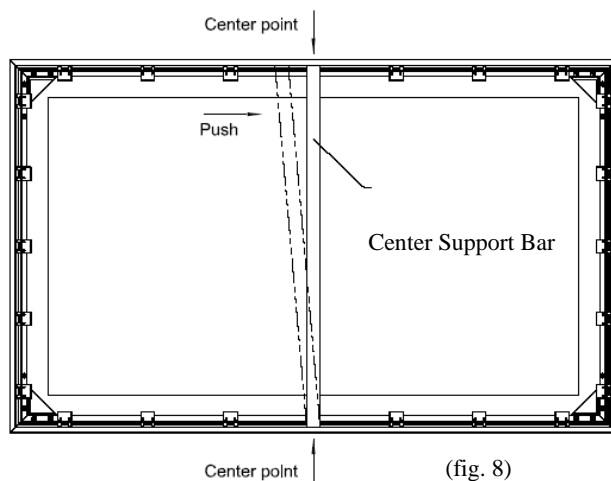
CENTER SUPPORT BAR

1. Insert the **support joiner** into each side of the center support bar to complete assembly.

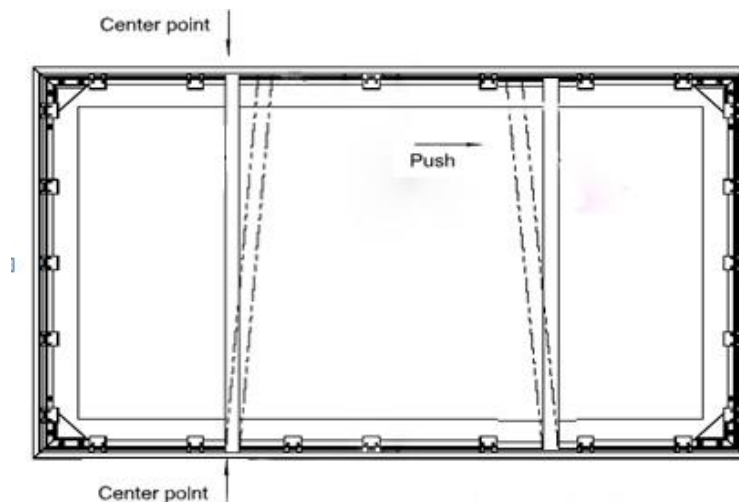


2. Insert the **Center Support Bar** into the upper top groove on the back of the frame (not where the fix plate inserts are) with the bottom end near the approximate center point of the frame and place it in at an angle so that both ends of the bar are in alignment with the groove (**Fig. 8**).

Diagonal models 135" and below use 1 x Center Support Bar



Diagonal models above 135" require 2x Center Support Bars

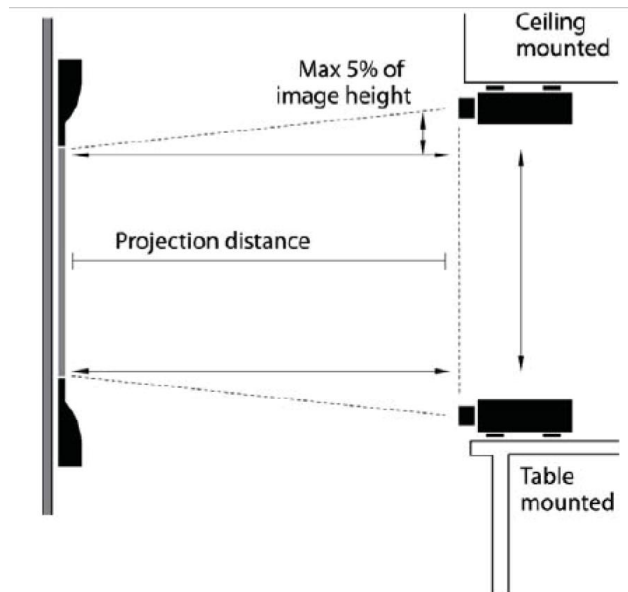


3. Slide the top end of the bar into the top center point location to complete center support bar installation. **This will provide added stability to your frame.**

Notice to Installer:

Please use the following installation instructions to obtain superior optical performance from the Retro Reflective ALR (Ambient Light Rejecting) DarkStar® Screen.

Projector placement

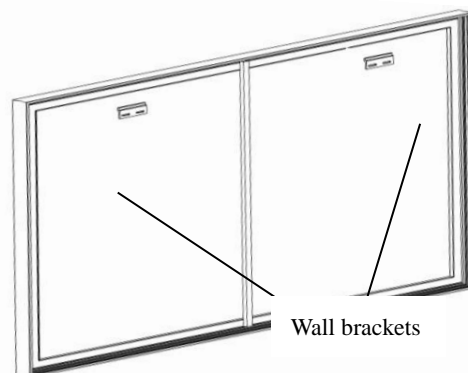


Images are not up to scale and are for illustrations purposes only.

Note: Do not install the projector at an angle that is greater than 5° off the vertical axis from the screen. The ambient light filtration layer in the material is designed to scatter off-axis light rather than reflect it.

INSTALLATION INSTRUCTIONS

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.
2. Drill a hole with the proper bit size according to the wood screws included.
3. Line up the wall brackets with the drilled holes on the installation location and screw them in using a Philips screwdriver.
4. Position the fixed frame screen onto the top wall brackets as shown (**fig. 9**) and push down at the center of the bottom frame to secure the installation.
5. The wall brackets allow flexibility by allowing the fixed frame screen to slide to the sides. This is an important feature as it allows your screen to be properly centered.



(fig. 9)

Dark Star™ Series Dimensions Table

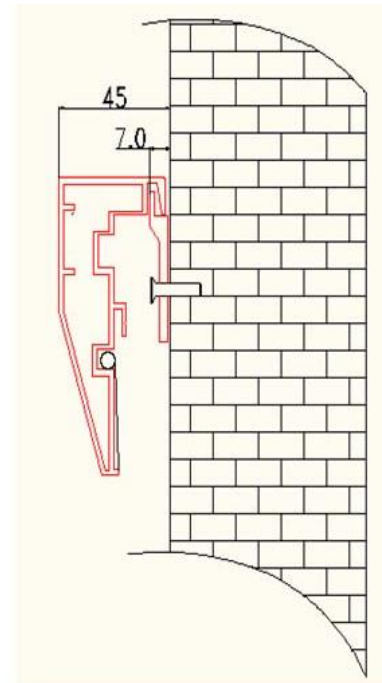
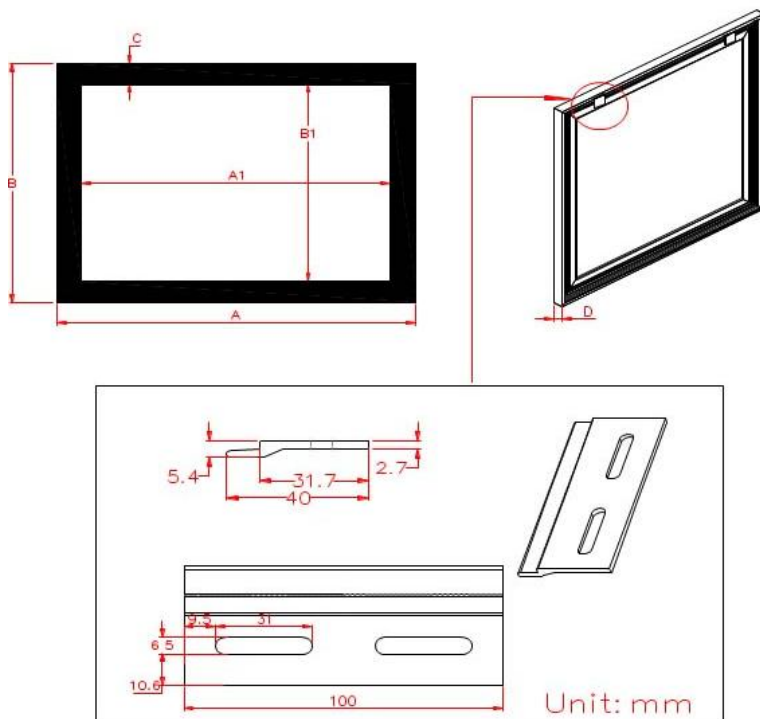
Unit: mm

Model Number	Nominal Diagonal	Overall Width (A)	View Width (A1)	Overall Height (B)	View Height (B1)	Frame Width (C)	Frame Height (D)
DS110H-FSE	110" (16:9)	2418.0	2555.2	1369.1	1360.0	61.0	40.6
DS123H-FSE	123" (16:9)	2842.0	2720.0	1651.0	1529.0	61.0	40.6
DS140C-FSE	140" (2.4:1)	3385.9	3263.9	1480.9	1358.9	61.0	40.6
DS140C-FSE	157" (2.4:1)	3794.8	3672.8	1651.0	1529.0	61.0	40.6

Unit: Inch

Model Number	Nominal Diagonal	Overall Width (A)	View Width (A1)	Overall Height (B)	View Height (B1)	Frame Width (C)	Frame Height (D)
DST110H-FSE	110" (16:9)	100.6	95.2	58.7	53.9	2.4	1.6
DST123H-FSE	123" (16:9)	112.5	107.1	65.0	60.2	2.4	1.6
DST140C-FSE	140" (2.4:1)	133.3	128.5	58.3	53.5	2.4	1.6
DST140C-FSE	157" (2.4:1)	149.4	144.6	65.0	60.2	2.4	1.6

The listed measurements are for general reference only. Please contact Elite Screens to verify product design and dimensions before attempting to integrate its products with any structural or furniture modification. Although a manufacturer may offer product advice, it may be taken or disregarded at the integrator's discretion. Elite Screens will not be held responsible or be otherwise liable for faulty installations



CAUTION

Please follow these instructions carefully to ensure proper maintenance and safety with your DarkStar™ Screen

1. When hanging the screen, please make sure that no other objects such as power switches, outlets, furniture, ladders, windows, etc. occupy the space designated for your Fixed-Frame screen.
2. Regardless if the screen is hung on or installed into the wall, make sure that the proper mounting anchors are used and that the weight is supported appropriately by a strong and structurally sound surface just as any large and heavy picture frame should.
3. Frame parts are made of high quality velour-surfaced aluminum and should be handled with care.
4. When not in use cover the screen with a furniture sheet to protect it from dirt, grime, paint or any other impurities.
5. When cleaning, use a damp soft cloth with warm water to remove any marks on the frame or screen surface.
6. Never attempt to use any solutions, chemicals, or abrasive cleaners on the screen surface.
7. In order to avoid damaging the screen, do not touch it directly with your fingers, tools or any other sharp or abrasive objects.
8. Spare parts should be placed out of reach of small children in accordance with household safety guidelines.

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

www.EPVscreens.com