Aeon Series
EDGE FREE® Fixed Frame Projection Screen
User’s Guide

Applies to all available screen materials: CineGrey 3D®, CineGrey and CineWhite®

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 velvet tape as an installation option to further enhance the frame appearance and absorb projector overshoot. An optional LED backlighting kit is available for added visual appearance.

Assembly Video: For further assistance, watch our assembly and installation video at www.elitescreens.com/video/aeon-assembly or scan the following QR Code:

For more information on the LED kit please visit: http://www.elitescreens.com/led

Hardware and Parts List
Please make sure all parts listed below are included before installation.

<table>
<thead>
<tr>
<th>A. Elbow joint x 4 pcs</th>
<th>B. Top/Bottom horizontal fame x 4 pcs</th>
<th>C. Left/Right vertical frame x 2 pcs</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Elbow joint" /></td>
<td><img src="image2" alt="Horizontal frame" /></td>
<td><img src="image3" alt="Vertical frame" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D. Center joints x 2 pcs</th>
<th>E. Center Support bar x 1-3pcs</th>
<th>F. Wall brackets x2-3 pcs</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4" alt="Center joint" /></td>
<td><img src="image5" alt="Center Support bar" /></td>
<td><img src="image6" alt="Wall bracket" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>G. M6 screw x 2-12 pcs</th>
<th>H. M5x15 screw x24 pcs</th>
<th>I. M6x12 screw x 2-12pcs</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7" alt="M6 screw" /></td>
<td><img src="image8" alt="M5x15 screw" /></td>
<td><img src="image9" alt="M6x12 screw" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>J. M5x50 screws/anchor x 6 pcs</th>
<th>K. Rubber hammer x 1 pc</th>
<th>L. Screwdriver x1 pc</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image10" alt="M5x50 screws/anchor" /></td>
<td><img src="image11" alt="Rubber hammer" /></td>
<td><img src="image12" alt="Screwdriver" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M. Velvet tape</th>
<th>N. Corner Support Bar (180”-200”) x4pcs</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image13" alt="Velvet tape" /></td>
<td><img src="image14" alt="Corner Support Bar" /></td>
</tr>
</tbody>
</table>

Frame Assembly

1. Insert the center joint (D) into one of the \( \frac{1}{2} \) horizontal frames (B) and fasten it with the two M5x15 screws (H).

2. Insert the other \( \frac{1}{2} \) horizontal frame piece to the center joint and fasten also using two M5x15 screws.

3. Repeat steps 1 and 2 for assembling the second horizontal frame.

4. For models 150” and below, insert and slide in one M6 screw (G) through the channel located on the back each horizontal frame section (top/bottom).
   Note: For models 180” and above, insert and slide in four M6 screws (two on each frame) through the channel located on the back of each horizontal frame section (top/bottom). Insert two M6 screws on each vertical frame section (left/right).

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.

**Note:** For models 180” and above, ensure two **M6 screws** (G) are inserted on each **vertical frame** before proceeding to step 7.
Screen Material Installation

1. Lay the screen material completely flat with the front facing down on a clean surface in a horizontal position. The back side of the screen material should be placed upwards.
   Note: The back side of the material has the velcro borders all around the edges.

2. Carefully and gently place the assembled frame on top the screen material 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.
3. After all of the corners of the frame have been properly aligned, attach the material to the frame in the following order A→B→C→D (see instructions below for details).

![Diagram showing the frame and attachment process]

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

4. After all four corners have been attached; please check whether the frame corners are wrapped by the screen material. If not, please loosen the velcro connection and repeat the above steps so the frame is not exposed.

![Diagram showing the attachment process]

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

Grasp the middle of the screen material and attach it to the velcro strip on the frame.

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 below 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 as show below.

Attach in the following sequence: a-b-c-d
6. If the material is too loose or tight after adjusting all four corner sides, then you will need to reattach the material. *Please follow the steps below to properly remove the screen material from the frame. This procedure will ensure prolonging the life of the screen material.*

**Screen Material Removal**
1. Detach the velcro from the frame.
2. Gently pull back the material to release the material from the velcro connections on the corners.

![Screen Material Removal Diagram](image)

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

**Support bar installation (for models under 135”)**
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 screws (G)* on the top and bottom frames. Then fasten with the *M6x12 screws (I).*

![Support Bar Installation Diagram](image)

- Move the *M6 hex screw (G)* to the middle area of the frames.
- Align the M6 screws with the two holes.
Support bar installation (for models 135" - 150")

1. Position the center support bar (E) and M6 hex screws (G) in the areas of the frame shown in fig 1. (Each about one thirds the way in from the end of the frame.) Align the hole on each end of the support bar with the M6 hex screws (G) located at the top and bottom frame sections. Then fasten with the M6x12 screws (I).

Support bar installation (for models 180" - 200")

2. Position the center support bar (E) and M6 hex screws (G) in the areas of the frame shown in fig 1. Align the hole on each end of the support bar with the M6 hex screws (G) located at the top and bottom frame sections. Then fasten with the M6x12 screws (I).
1. Position the **Corner support bars (N)** and **M6 Hex screws (G)** in the areas of the frame as shown below in fig 2. Align the holes on each end of the corner support bars with the M6 hex screws located on the vertical and horizontal frame sections. Then fasten with the **M6x12 screws (I)**.

**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.

- Angular-Reflective material is not compatible with ultra/short-throw projectors
- Minimum lens throw ratio 1.5x image width
- Ambient light must not come from the same direction as the projector

Since angular-reflective means that the projected image will reflect at the mirror-opposite angle, it is important to position the projector so that the viewer will get the best possible image.

**Step 1:** Establish the general “eye level” of the viewers

**Step 2:** Set the appropriate projection level

**Step 3:** Adjust the screen height level and projection angle

Input Angle (A) = Output Angle (B) aligns with the viewer’s angle
Velvet Tape Trim Installation

**Attention:** Installing the velvet trim will reduce the viewing size of your screen. See below illustrations for a comparison of the viewing size of the before and after edge trim installation using the 100” & 120” 16:9 diagonal models.

100” comparison:

- Before installing the trim strip
- After installing the trim strip

120” comparison:

- Before installing the trim strip
- After installing the trim strip
1) Lay the assembled frame on its back on a clean surface.

2) Measure 10 mm (0.40”) from the edge of the frame to the inside of the material.

3) Make a light mark with a pencil approximately every 8-10 inches apart. This will help guide the way to making a straight line for the velveteen strip.

4) Repeat steps 2 and 3 on the remaining sides

5) Peel off the backing on the velvet strip and align the top edge at the 10mm mark.
6) Continue peeling off the backing until the other side has been reached. Make sure that the velvet strip is kept straight the entire way.

7) Fold back the excess unused velveteen.

8) Repeat steps 5-7 to complete the velveteen strip installation.

**Installation**

Locate your desired installation location with a stud finder (recommended) and mark the drill-hole area of where the screen is to be installed.

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 in 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 Elite Screens contact or Technical Support, please visit

www.elitescreens.com