Section 1: Screen Design

1.1 What is it for?
The *ezFrame Rear Series* uses a high gain screen material for applications with a high ambient light intrusion. This screen is ideal for events such as clubs, rental and staging, restaurants, trade shows, meeting rooms, and outside evening presentations.

1.2 How does it work?
The *ezFrame Rear* is a fixed projection screen that uses material tension on all four sides to provide the flattest possible front or rear projection surface. It utilizes *WraithVeil* projection material for rear projection. The *WraithVeil* material’s special surface coating enhances color reproduction and black level contrast with wide uniformity for large audiences.

Section 2: Product Features

2.1 Characteristics

Screen Material
- Home Theater Screen with full tension uniformity
- 4K Ultra HD and Active 3D Ready
- Gain 2.2
- Viewing angle: 160° (80°±LR)
- Screen surface can be easily cleaned with mild soap and water

Design and Installation
- Anodized black aluminum frame with black velour surfacing to enhance the appearance with the stylish masked border that absorbs projector light overshoot
- Easy to assemble and install in minutes
- Sliding wall mounts ensure the installation is properly centered
- Available in 4:3, 16:9 and 16:10 aspect ratios
- Diagonal sizes ranging from 84" - 226"
- Custom sizes are available

Quality and Reliability
- Mildew resistant
- 2-year manufacturer warranty
2.2 Model Numbers

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Diag. Size</th>
<th>Aspect Ratio</th>
<th>Viewable Height (in)</th>
<th>Viewable Width (in)</th>
<th>N.W. (lbs)</th>
<th>G.W. (lbs)</th>
<th>Packaging Dimensions (LxWxH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R120RH1</td>
<td>120&quot;</td>
<td>16:9</td>
<td>58.7</td>
<td>104.7</td>
<td>30.5</td>
<td>44.0</td>
<td>68&quot;x4.6&quot;x12.5&quot;</td>
</tr>
</tbody>
</table>

Section 3: Screen Material Specifications

3.1 Characteristics

*WraithVeil* is our rear projection screen material. It has a high gain performance for applications with a high ambient light intrusion. Its 2.2 gain configuration is ideal for events such as clubs, restaurants, trade shows, meeting rooms, and outside evening presentations. Its special surface coating enhances color reproduction and black level contrast with wide uniformity for large audiences. Seamless screen sizes are available in sizes up to 200".

**Features & Benefits**

- Textured PVC with surface coating
- Gain 2.2
- Viewing angle: 160° (80° ± LR)
- Screen surface can be easily cleaned with mild soap and water
- Mildew resistant
- 4K Ultra HD and Active 3D Ready

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>0.36 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>350 g/m²</td>
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<tr>
<td>Maximum Height</td>
<td>3.2 M</td>
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<tr>
<td>On-axis gain</td>
<td>1.0</td>
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<tr>
<td>Half-Gain Angle</td>
<td>Does not reach half gain</td>
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</tbody>
</table>
3.2 Gain and Viewing Angle Chart

![Gain and Viewing Angle Chart]

On axis 0° Gain: 2.2
Viewing Cone: 160°

Section 4: Execution

4.1 Submittals

- Frame Parts x 6 pcs (4 top/bottom horizontal frame pcs + 2 side vertical frame pcs)
- Tension Rods x 6 pcs (4 top/bottom rods + 2 side rods)
- Screen Material x 1 pc
- Center joints x 2 pcs
- Elbow Joints x 4 pcs
- Wall brackets x 2 – 3 pcs (depending on model/size)
- M5x50 wood screws x 6 pcs
- Hollow wall anchor x 6 pcs
- M5x15 screws x 16 pcs
- Center Support Bar x 1 – 2 pcs (depending on model/size)
- Support joiner x 2 – 4 pcs (depending on model/size)
- Fix Plates x 60 – 180 pcs (depending on model/size)

Note: Please make sure all parts are included in your package before proceeding to assemble your Elite Screens fixed frame projection screen.
4.2 FRAME ASSEMBLY

1. Insert the center joint connector into one of the 1/2 horizontal frames and fasten it with two M5x15 screws.

2. Insert the other 1/2 horizontal frame piece to the center joint connector and fasten it with two M5x15 screws. Repeat steps 1 and 2 for assembling the second horizontal frame.

Note:

a. 2 long frames should be assembled for a screen.

b. Do not tighten the screws completely until all frame pieces have been assembled correctly.

3. Insert both elbow joint connectors into the long horizontal frame and then fasten it with two M5x15 screws (see Fig.1). Then insert the vertical short frames and fasten them with screws (fig.1.2)
4. Join all four frame parts together following the steps shown below. *(Fig.2)*

Note: When assembled, please push simultaneously the two ends of the long frames.

*Insert the exposed ends of the joint connectors into the short (vertical) frame and align the four corners so that they meet at perfect right angles.*
**Attaching the screen material to the frame**

1. Unroll the screen material and lay it down on a clean surface. Then insert the tension rods separately into the edges of all four corners of the material *(see fig. 3)*

   - Tension Rod (Vertical) x 2
   - Tension Rod (Horizontal) x 4

2. Make sure that the material and frame are both lying face down on a clean, dry, and non-abrasive surface.

3. Center the material inside the frame.

   *Please note the material will be noticeably smaller than the frame, as the material must be stretched to create a sufficient amount of tension for perfect material flatness.*

**Attach the fix plates**

1. Begin by securing the four corners in the following order A→B→C→D *(Fig. 4)*

2. Insert the fix plates as shown on Fig. 5. Fix plate ① is approximately 10 cm away from the frame’s corner and fix plate ② is approximately 5 cm away.
(3) Stretch the material to the corner and insert the screen material's edge into the groove of the frame. While one hand holds the material in place, the other hand snaps in the push plate (Fig.6-Fig.7).

(Fig. 6)

(4) Place a fix plate in the center of each side in the following order E→F→G→H. (Fig.8)

(Fig.8)

(5) Put the next set of fix plates ② in the middle between fix plate ① and the corner. (Fig.9)

(Fig.9)

(6) Then put the next set of fix plates ③ between ① and ② and the corner. (Fig.10)

(Fig.10)

(7) Lastly, put the next set of fix plates (4) as shown in Fig.11
Black backing for AcousticPro models

This procedure only applies to AcousticPro models. Disregard this section if your Fixed Frame does not include an acoustically transparent screen material. The purpose of the black backing material is to block out any light penetration that may reflect off of anything mounted behind the screen, which can cause distortion to the projected image.

The black backing is held in place by the Velcro that is on the fix plates.

Interval markings reveal the best points for inserting the fix plates (Fig. 13). The prongs on the fix plates insert to the lip on the back of the frame creating a friction hold that will firmly keep the material and black backing in place (Fig. 14-15). After the material has been installed, the backing will lie over the back of the white (Acoustic) material and then be held in place by the Velcro on the fix plates (Fig 16).

(8) Repeat steps 5-7 to for the rest of the sides to complete attaching the screen material (Fig. 12)
Center Support Bar

1. Insert the **support joiner** into each end 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 the one where the fix plate inserts) with the bottom end near the approximate center point as shown in Fig. 17 and rotate it in at an angle so that both ends of the bar are in alignment with the groove.

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

4.3 **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.
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 Phillips screwdriver.
4. **Note:** Use use 3 top wall brackets on diagonal sizes 135” and above.

5. Position the fixed frame screen onto the top wall brackets as shown in (Fig. 19) and push down at the center of the bottom frame to secure the installation.

6. 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.

7. Using both hands finish the installation by pushing the lower portion of the fixed frame screen into the lower bracket as shown in Fig 20.

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**CAUTION**

*Please follow these instructions carefully to ensure proper maintenance and safety of your Fixed Frame Screen*

1. When hanging the screen up, 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. *(Please consult a home improvement specialist for the best advice on installation)*

3. Frame parts are made of high quality velour-surfaced aluminum and should be handled with care.

4. When not in use, cover over 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, avoid touching 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.
Section 5: Product Specification

5.1 Dimensions

<table>
<thead>
<tr>
<th>Model Number</th>
<th>Diag. Size &amp; Aspect Ratio</th>
<th>Overall W. (A1)</th>
<th>View W. (A)</th>
<th>Overall H. (B1)</th>
<th>View H. (B)</th>
<th>Frame W. (C)</th>
<th>Frame Depth (D)</th>
<th>Distance Between Brackets (D1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>R120RH1</td>
<td>120&quot;(16:9)</td>
<td>109.4</td>
<td>104.7</td>
<td>63.4</td>
<td>58.7</td>
<td>2.4</td>
<td>1.6</td>
<td>61.4</td>
</tr>
</tbody>
</table>

**Unit: Inches**

| R120RH1      | 120"(16:9)               | 2779            | 2659        | 1610           | 1491        | 61           | 41             | 1560                        |

**Unit: mm**

5.2 Drawings
5.3 Pictures

*ezFrame Series* – Full View

Life Style
Restaurant Setting
Section 6: About Elite Screens

6.1 Company Description

Elite Screens Inc. is a California based company that specializes in making quality commercial and home-theater projection screens for the retail and custom install sales channels. Our company began as an innovative venture into the projection market by manufacturing veterans from the AV/IT industry. Elite Screens quickly established itself as an entry level commercial and home theater screen manufacturer. This was accomplished by making a quality product cost effective with a focus on mass-producing screen material, sizes and aspect ratios that were most commonly preferred by AV customers in general. We focused on uniformity with what would match the mainstream demographic while including extra features that are not usually included by other manufacturers. In time, we progressed from just retail sales into the realm of custom installer/integrator manufacture as our numerous reviews and awards will attest. We stand behind our product and are so certain of customer satisfaction with the quality of our product that we offer a 2-year manufacturer’s warranty which is twice the industry standard. In our continued devotion to excellence in products and service, we are committed to implementing green practices with our production. We have adopted manufacturing methods that promote conservative regulation of our energy needs. Our simple product designs combined with the expertise of our permanent staff ensures that our entire line of products are made by experienced hands devoted to the high standards of today’s audio-video consumer.

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