



6M GEODOME

THEATER

MOBILE OUTREACH DOME

Installation & User Guide
with Troubleshooting Tips

V3.0.0

THE ELUMENATI

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OVERVIEW

This guide covers the installation and operation of the GeoDome Theater. The Theater consists of three major components: the inflatable dome structure, the projection system and the image generator (IG). Please read through this entire guide before following the instructions.

Packing List

The GeoDome Theater includes a storage bin and fan case. Inside the bin is a 4-wheeled dolly to easily move it around. If traveling in a van or medium sized SUV, please take the screen out of the tub and transport in its storage bag with the other cases.

- Storage Bin – 42” x 34” x 41” (~400 lbs) (remove items for SUV transport)
- Projection Case – Projector, laptop, audio lens - 32” x 24” x 14” (~ 120 lbs)
- Fan Case - Dome Fans, suction fans, tools – 41” x 24” x 20”
- OpenDome Theater – located in bag inside storage bin
- Furniture Dolly – located in Storage Bin

INSTALLATION PREPARATION

To prepare for **OpenDome** installation, it's essential to prepare the space thoroughly to protect the silver projection screen from dirt, debris, or potential tears. We recommend vacuuming, sweeping, or mopping as needed to ensure a clean surface. Make sure the area meets the minimum space requirements of **25'x25' in clear floor space** with a ceiling height of **at least 12 feet**. Following these steps helps maintain the quality and longevity of the screen, ensuring an optimal immersive experience.

IMPORTANT: The Theater requires constant power to remain inflated. Always remove the fisheye lens when deflating.

SETTING UP THE GEODOME THEATER

Setting up the Dome

Unpacking

1. Tilt the case and roll the dome out onto the floor.



2. Unfold the dome so that the light screen material is face-down on the floor. It will unfold to a circular shape.
3. Close all four of the vents around the periphery of the dome base by closing the zippers and securing the Velcro.



(Fig. 1) Unpack



(Fig. 2) Unroll



(Fig. 3) Unfold



(Fig. 4) Locate four vent openings



(Fig. 5) Zip and Velcro close each opening

Connecting the Inflation Blower

1. Remove both the inflation and ventilation fans from Case 2. The fans are not identical. The 1 hp fan with the fabric connector is used for inflating the dome while the 1/3 hp fan (red) is used to bring cold air into the dome once operational.



2. Plug in the blower.
3. Locate the blower connection tube. If space permits, use the extension tube included in Case 1. This lets you place the blower ten feet from the back of the dome and cuts down on noise inside the dome.
4. Connect the blower fan to the connection tube by attaching and closing the zipper and Velcro seal.



(Fig. 6) *Connecting the blower.*



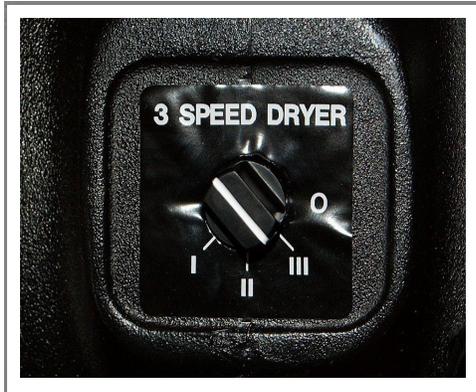
(Fig. 7) *Attaching the suction fan.*



(Fig. 8) *Connecting the speed control*

Inflating

1. Turn the blower on high. (Fig. 9)
2. Let the Theater structure inflate. This should take about 5 minutes. (Figs 9-12)
3. Lower the speed to 2 or 1 to keep the dome inflated but to reduce noise. This setting varies with location.



(Fig. 9) Blower Speed



(Fig. 10) Inflating the dome



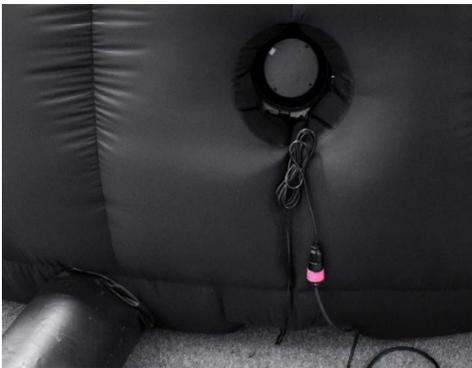
(Fig. 11) Dome begins to inflate



(Fig. 12) Fully inflated Theater

Connecting the Screen Suction Fan

1. Locate the hole at the rear of the dome surrounded by Velcro. Slide the suction fan into the hole as shown in Fig. 13.
2. Plug in the suction fan and set the speed control to full power by clicking the center of the controller until all lights are lit.
3. When the screen is taut, click the button until 3-4 lights are illuminated (Fig. 14). Balance the fan speed between a taut screen with no wrinkles and no print through of the support structure.



(Fig. 13) Suction fan slides into opening



(Fig. 14) Final setting is typically 3-4 lights

Using the OpenDome

The Theater is now ready for use. Install the provided audio/video equipment and enjoy the show!



(Fig. 15) Theater in action

INSTALLING THE PROJECTION SYSTEM

Case

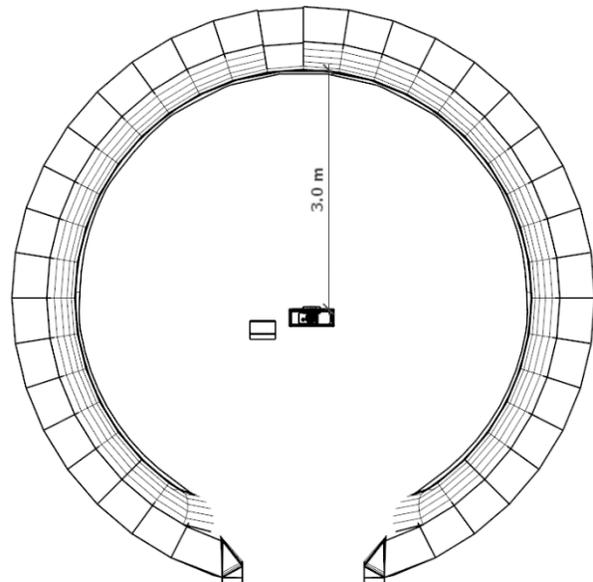
The case is an “L-7” design where the “L” houses the projector and cable snake and the “7” houses the lens, speaker and laptop. After releasing all the latches, lift the “7” section slightly up and then out.



Placement

Follow the next steps to correctly place the system in the Theater.

- Roll the case into the GeoDome Theater and open it.
- Remove the projection system and place it roughly 3m from the front the screen, centered left to right. The exhaust fan should face the screen.
- Unravel the cable snake roughly in the desired direction.
- Remove the lens from the case. **REMOVE THE BOTTOM LENS CAP** and insert it into the magnetic mount.
- Remove the speaker, connect the USB power and 3.5mm audio jacks and then secure it to the velcro strip on the projector frame.
- Remove the top lens cap.



*See images on next page



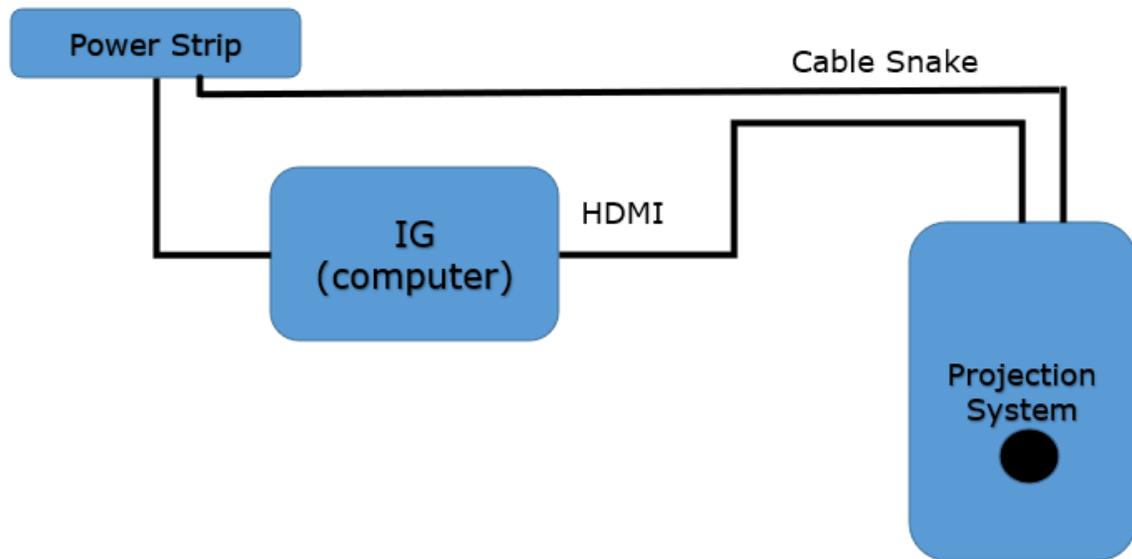
Remove Projection System and cable snake. Place 3m from the front of the screen



Connect USB and audio jacks to the very expensive speaker volume in place



The speaker and bottom exhaust fans should face the front of the screen



GeoDome Theater Cable Diagram
NOTE: The projector must be running before connecting the HDMI cable to the IG

First Light

With everything placed correctly, the system can be connected and powered on. The following steps must be completed in this order exactly!

1. Reassemble the projector case and use it as a table for operations. Typically this is placed near the doorway.
2. **Connect only the power at first.**
3. Using the remote control turn on the projector.
4. Wait until the Panasonic boot screen turns off
5. Boot the IG (computer)
6. **When both the Projector and IG are booted, connect the HDMI cable to the laptop.**
7. There should be an alignment image on both the laptop and Theater. If so, proceed to Focus and Alignment. If not, please check the Troubleshooting section.

Shutdown follows these steps in reverse

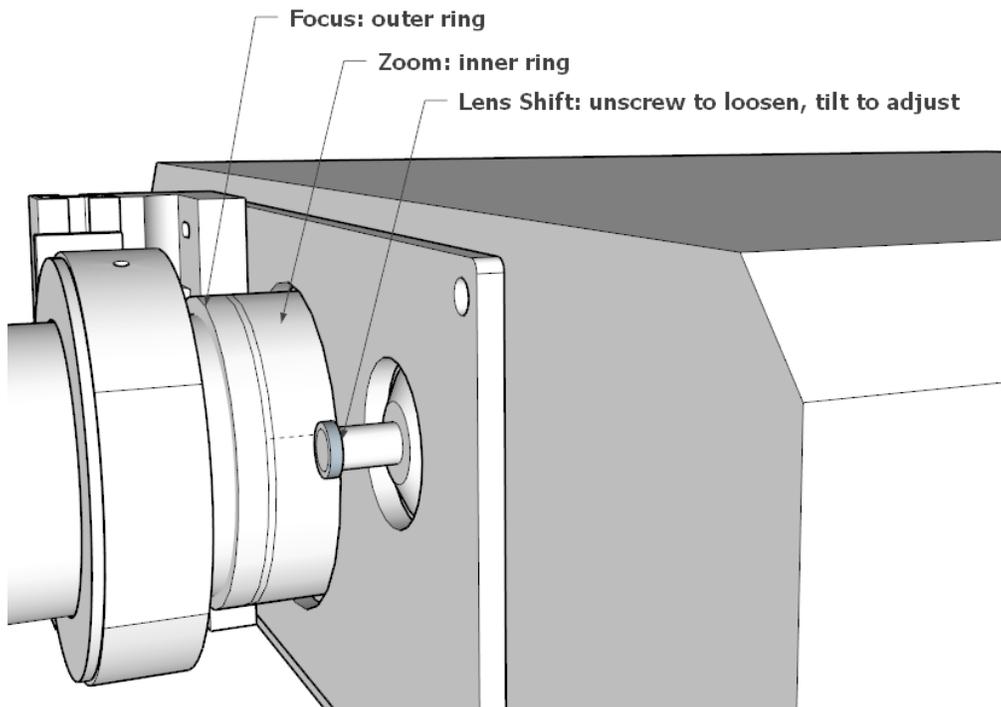
1. Unplug the HDMI cable
2. Shut down the IG
3. Power off the projector

Focus and Alignment

Whenever the system is installed it will require small tweaks to both focus and alignment. Use the desktop background image for this stage.

Focus

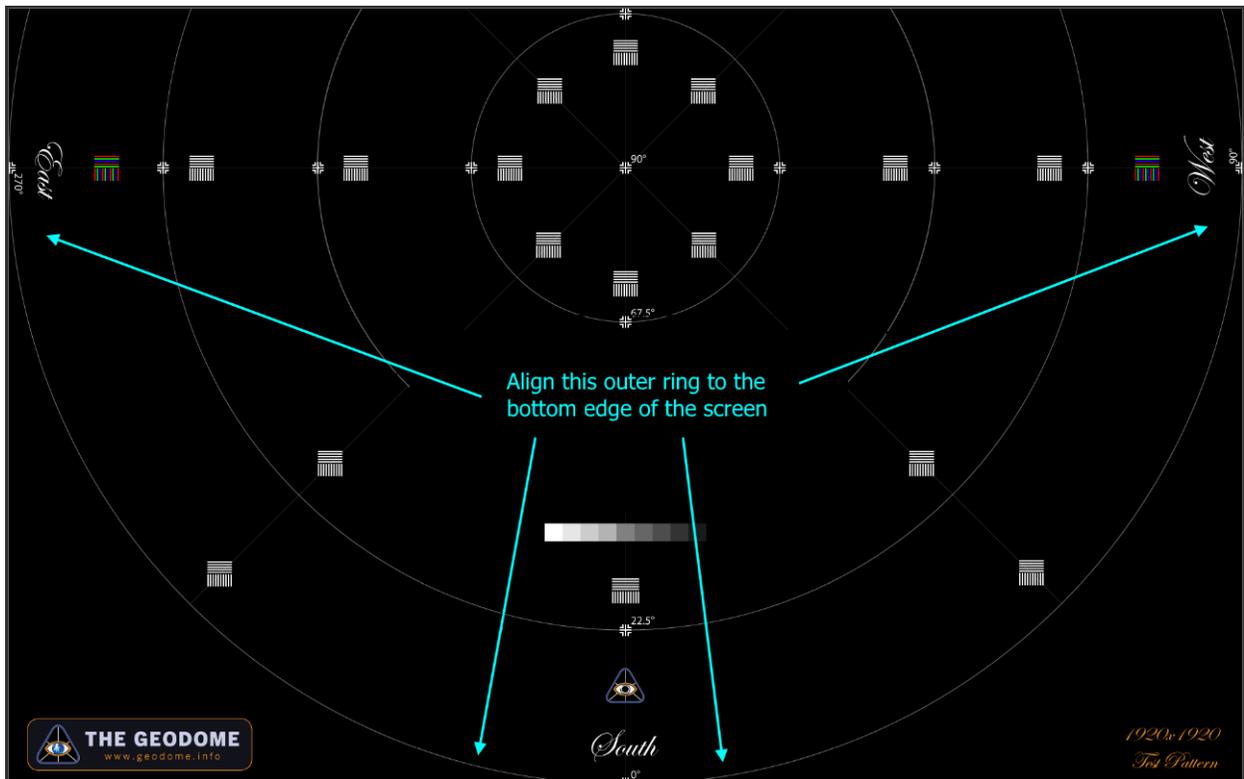
This 300 Series projection system has manual Focus, Zoom and Shift. While Focus and Zoom are intuitive, the joystick controlled shift requires finesse.



Use Desktop Image for Alignment

The default location for the projection system (3.0m from the front) is offset from center of the screen. The desktop background pattern does not account for this but it is still very useful

Using Lens Shift, shift the image until the horizon line (containing East, South and West) is level with the bottom edge of the screen. You may have to adjust Zoom to get it perfect. Use the rest of the alignment pattern to optimize focus.



Run WorldViewer

Hit the Windows key and select the WorldViewer icon to launch. WorldViewer and WorldComposer are detailed in separate documentation.

THEATER TEARDOWN

Deflating

1. Once you are finished using your Theater, remove all equipment from inside the dome.
2. Turn off the inflation blower. The structure will begin deflating.
 - Tip: If two or more people are deflating the dome, it's helpful to fold the dome along the line between the door and the blower tube. The dome then collapses onto one side. This folding method is known as “the taco” and provides better protection for the screen.
3. As it deflates, open the deflation vents by opening the Velcro and zippers around the perimeter of the OpenDome to allow the air to freely escape. (Fig. 17)
4. Unplug the fan speed control from the power outlet and disconnect it from the suction fan's power cord.
 - Remove all footwear before stepping on dome material.



(Fig. 16) Dome begins to deflate



(Fig. 17) Open all four vents



(Fig. 18) Remove suction fan. Shoes off please!

Packing Up

1. Drag dome by suction fan hole until it folds in half along a line between the doorway and the inflation tube. This sandwiches the screen completely inside the outer shell, protecting it from dirt.
2. Fold in half again from the opposite direction so that the width is again decreased.
3. Begin tightly and slowly rolling the dome from the doorway end toward the inflation tube end, taking time to let air escape as you roll.
4. Place the dome in the transport bag and tighten the bag straps before transport.



Alternate Packing Method (Stuff Pack)

After following steps 1-4 above, some customers prefer to “stuff” the OpenDome directly into the shipping container. This method has three advantages: 1) stuffing allows for a more efficient use of space; 2) there is a more random distribution of wrinkles in the dome fabric this way; and 3) it's quicker. The disadvantage is that there is an increased risk of tearing the dome fabric.

ABOUT THE SOFTWARE

WorldViewer

WorldViewer is an innovative content management and presentation tool developed by The Elumenati, designed to bring interactive storytelling and immersive experiences to life in dome and projection environments. It allows users to create, manage, and display a wide range of content in immersive spaces, providing a unique, hands-on way to engage audiences with visuals and interactive elements.

In short, WorldViewer is a sophisticated tool designed for both the practical and creative demands of immersive environments. With its ease of use, real-time interactivity, and robust support for all types of content, it provides a seamless way to craft compelling, immersive experiences that captivate audiences with a lasting memory.

Key Features and Capabilities

1. **User-Friendly Content Management:** WorldViewer makes it easy for non-technical users to curate and arrange content. The software's intuitive drag-and-drop interface allows users to organize multimedia elements, including videos, images, and interactive overlays, into cohesive presentations or "compositions" without needing specialized programming knowledge.
2. **Geospatial Capabilities:** WorldViewer shines in geospatial visualization, allowing users to overlay data on global and celestial spheres. This functionality is ideal for applications requiring geographic context, such as environmental data visualization, weather patterns, or planetary exploration, bringing the "big picture" to life in a literal sense.
3. **Compatibility with Immersive Displays:** Tailored for immersive environments like GeoDomes, OmniLED and custom projection systems, WorldViewer syncs seamlessly with Elumenati's spherical and dome displays. This makes it a perfect fit for venues like planetariums, science museums, and interactive exhibits where large-scale, wrap-around visuals are crucial.
4. **Customizable Content Creation:** Users can personalize content with tools that support interactive elements and animations. WorldViewer allows users to set transitions, animate sequences, and add interactivity layers, enhancing engagement through visual storytelling.
5. **Multi-Platform Accessibility:** It's built to run on Windows and is compatible with a range of graphics and media formats. This cross-platform flexibility allows clients to integrate their own media assets or incorporate external content with ease.

How WorldViewer Works

WorldViewer operates as a software layer that interacts with both content files and immersive display hardware. Here's a step-by-step breakdown of how it works:

1. **Content Upload and Organization:** Users upload their media assets—images, video, data visualizations—into WorldViewer, organizing them into scenes and playlists. The platform supports a wide variety of media formats, ensuring easy integration of diverse content types.
2. **Mapping Content to the Environment:** Using built-in mapping tools, users can set how content should appear within a dome or spherical display. This involves defining how visuals are mapped to fit precisely within the projection area, ensuring accurate and immersive viewing.
3. **Real-Time Playback and Control:** Once content is organized, WorldViewer offers live controls for managing playback in WorldComposer or users can create a custom interface enabling guests to navigate between scenes and trigger interactive elements. For more complex experiences, users can even script these actions into automated sequences.
4. **Data Layering for Geospatial Visualization:** With optional geospatial data integration, WorldViewer can layer dynamic data over a virtual globe. This can include datasets from NOAA's *Science on a Sphere™*, live weather patterns, or other datasets that require an interactive.

WORLDVIEWER QUICK GUIDE

Start WorldViewer

- Double-click the WorldViewer icon in your start/program menu. If you do not see it, start to type “WorldViewer” and it should populate in the suggestions.
- On launch, you will see the primary program interface and any secondary windows for projection display. They should automatically move to the proper screen and display accordingly. If you have issues, please see the “EZ3 Windowing section” or “Troubleshooting Tips.”

Access the Menus

- Global Settings or “ESC” Menu
 - Press the ESC key to bring up the global settings menu.
 - The menu can expand or contract by clicking on individual tabs.
- WorldComposer or “TAB” Menu
 - Press the TAB key to bring up WorldComposer.
 - Make additions, changes and/or updates in each cell, chapter or track.

Loading Compositions

- Click “Load Composition”, navigate to the composition you wish to load and select “open.”

Setting Default Composition

- Press the ESC key to bring up the global settings menu.
- Expand the “Settings” tab, then expand “Composition Settings” tab.
- Click on “Select Default Composition.”
- Navigate to the composition you want as default and select “Open.”

EZ3 GUIDE & TROUBLESHOOTING

Checking Window States

- **WorldViewer:** Hover over the WorldViewer icon in the taskbar to see a preview window of its state.
- **EZ3 Windows:** Hover over the EZ3 icon in the taskbar to view all active EZ3 display windows.

Icons and Functions

- **Fullscreen State**
 - Icons:  and  toggle between fullscreen and windowed modes.
 - Action: Click to switch between fullscreen (no taskbar) and windowed (with taskbar) mode.
- **Always on Top**
 - Icons:  and  toggle the "always on top" feature.
 - Action: Click to ensure the EZ3 window stays above other windows.
- **Reset to Primary**
 - Icon: 
 - Action: Resets the window to the primary monitor and removes fullscreen status.

Keyboard Shortcuts

- **Fullscreen Toggle:** CTRL + ENTER to toggle fullscreen.
- **Always on Top Toggle:** CTRL + ALT + ENTER to toggle the "always on top" state.
- **Reset to Primary Monitor:** CTRL + SHIFT + ENTER to reset to the primary monitor.

SYSTEM TROUBLESHOOTING TIPS

Issue: The image or GUI is not displaying properly

- Resolution:
 - Hover over the EZ3 icon in the taskbar to view all active EZ3 display windows and on the improper looking display window, press  or click on that window to make it active and press CTRL + SHIFT + ENTER to reset to the primary monitor
 - Drag the window to the proper display and then make monitor fullscreen, either:
 - With that window active press CTRL + ENTER.
 - Hover over the EZ3 icon in the taskbar to view that EZ3 display windows and click the  icon.

MAINTENANCE

Cleaning the screen

The screen can be cleaned using water and a clean cloth. For tougher stains, use a mild detergent (ie. dishwashing liquid) and then clean again with water. Harsh cleaners can discolor the screen.

Storage

Always fold/roll the screen “onto itself” to protect the projection surface. Store the OpenDome in a cool dry place.

THEATER INFORMATION

This section contains product specifications, troubleshooting tips, and support information.

Maintenance

Cleaning

The entire Theater, including the screen, may be cleaned with a wet cloth or sponge. Water is preferred but a mild soap solution may be used for tougher marks. Do not use chemical solvents.

Troubleshooting

The Inflatable Is ‘Soft’

Make sure all the zippers are closed. Check the inflation tube for twisting or obstructions. Make sure the blower intake is clear.

The Inflatable is Too Firm

Switch the external blower to #2 or #3 setting.

Tears and Rips – Inflatable Repairs

The Theater comes with a one-year warranty on workmanship and materials. If the damaged inflatable is a result of workmanship, contact The Elumenati to arrange for repair. If a small tear occurs in your inflatable during an event, you may repair it yourself using a sewing kit with a “C-hook”-shaped needle and mono-filament thread. Local upholstery and tent & awning shops may be able to complete emergency repairs if needed.

Important Advisories

ALWAYS remove footwear before walking on dome material.

PLEASE NOTE - Elumenati OpenDomes are not intended for outdoor use. Please contact us to discuss outdoor use domes.

THEATER SPECIFICATIONS

OPENDOME ADVANTAGES

- Fully open doorway with no airlock
- No rigid supports
- No complex assembly

DIMENSIONS

- **7.31m (24')** Outside Diameter
- **6.0m (19.5')** Internal Screen Diameter
- **3.34m (11.0')** Maximum Height

CAPACITY

- Maximum capacity depends on age/size of audience and seating arrangement.
- Adult Capacity: 16
- Typical Student Capacity: 25-30

SETUP

- **1 adult – 2 are recommended**
- **Approximately 20 minutes**

PACKED SIZE

- **1.07m x 0.86m x 1.07m (42" x 34" x 42")**
- **75 Kg**

FLOORING

- No special flooring is provided. The floor of the setup area is usually sufficient.

MATERIALS

- 200 Denier Nylon Oxford

CUSTOM COLORS & BRANDS

- Available in a wide range of colors
- Custom graphics can be printed directly on the dome
- Custom removable wraps available

STANDARD ACCESSORIES

- Shipping case
- Blower fan
- Screen fan
- Installation manual
- Patch kit

OPERATING ENVIRONMENT

- Indoors or under cover
- Less than 5 mph wind untethered

LIMITED WARRANTY

- 1 years part and labor

CARE

- Spot clean with water and cloth
- Screen is machine washable and replaceable

SCHEDULING & RECEIVING SUPPORT

Priority Support

Requests for priority support require a custom priority support package.

Schedule your priority support block

- This must be done at least 2 weeks prior to the requested 4 hour block
- Visit https://www.elumenati.com/priority_support/ and scroll to the section for registering a priority support block.
- Complete the necessary fields and click submit.
- A representative will reply with a confirmation email that the block has been approved and scheduled within 48 hours.

Opening a Priority Support Ticket

- Your block is a 4 hour window. You can submit a support ticket by visiting https://www.elumenati.com/priority_support/ and scroll to the section for creating a priority support ticket.
- Complete the necessary fields and click submit.
- If you are in the 4 hour block, a representative will reach out within 60 minutes. For immediate assistance, you can call your technician directly at +1 (720) 707-0882 *AFTER* creating your ticket via the form.

Standard Support

Open a Ticket

- Visit <https://www.elumenati.com/support> or visit www.elumenati.com and click on “Connect” and then “Support.”
 - Complete the necessary fields and click submit.
 - A technician will reach out within 48 hours
- Email support@elumenati.com and include as much detail as possible – pictures are always helpful and typically lead to quicker resolution.
- Call support at (612) 605-0826 and press option 2. Leave a message including a direct phone number and email address to reach you.



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