

# SuperImaging, Inc.

43239 Osgood Rd.  
Fremont, CA 94539 USA  
Tel: +1 (510) 651-1329  
Sales & Marketing Tel: +1 (831) 334-1840

## MEDIAGLASS MANUAL



### SAFETY



Laser Class IIIB device.  
Installation to be handled only by qualified personnel fully trained in electrical and laser safety. Wear personal protective gear including UV-blocking safety glasses and gloves at all times and never look directly laser projection device, as eye damage could result.

The projected light is only safe to look at from the other side of the projection screen, which converts the lasers wavelength to normal, safe, visible light.

This can be demonstrated by bending the film so it forms two layers and inserting them into the projection beam; you'll see that the second layer doesn't emit, or glow, while the first layer lights up. This is because basically all the light stops on the first layer. Less blue ray light passes through than exists in normal sunlight.

This device is to be installed so it is impossible for consumer to look directly at the UV projection lens. Per the installation diagrams, it must be installed such that consumers can not walk into the path of the projection. Also, there must be a conveniently located off switch and labeling so maintenance or cleaning personnel can shut off the system if they need to enter the projection area.

Per IEC 60825-1 & 21 CFR 1040.10, one individual at the installation site should be the 'laser safety officer' who informs all employees not to enter the laser beam area without turning off the switch, and that they should off the projector immediately if anyone mistakenly finds a way to enter the projection area.

Please note there are no user-serviceable parts on the projector. Should the display cease to function for any reason, please turn off the power and return the projector to SuperImaging for warranty evaluation.

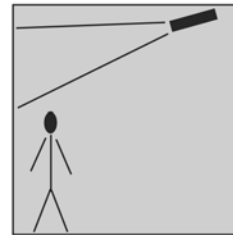
### PROJECTOR MOUNTING SAFETY

Using the chain and eyehooks provided, mount the projector so it projects at roughly a 45° to 80° angle from the projection surface or store window. Note that steep projection levels may distort our standard graphics files. The distance from the projector to the window is no greater than as follows assuming the projector is mounted flat:

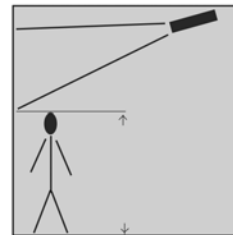
Display Size	Proj. Distance in feet	Proj. Distance in cm
40" display	4.50	137
60" display	6.75	206
80" display	9.00	274

Generally you want to mount the projector a bit closer than is shown above, especially if you are mounting it with the projection beam angling downward.

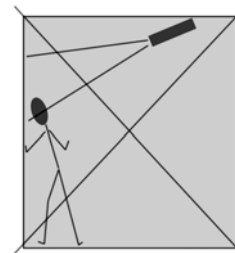
**Ensure the unit is mounted in a place such that pedestrians will neither enter nor block the projection beam**, and also ensure there's enough space behind the projector so the USB drive is easily changed.



*The projector must be installed so the blue ray laser does not strike anyone passing by*



*We recommend a safety zone of at least 2.5 (7' 6") meters for ceiling projection where the consumer can walk right up to the window in the store.*



*The projector must be installed so the rays can not strike anyone in the eyes*

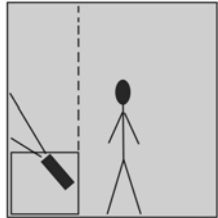
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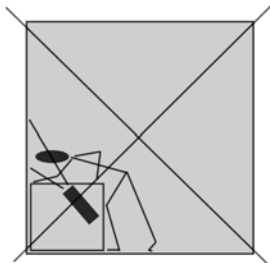
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For a floor installation, ensure no one can view the blue ray laser by getting between the projector and the projection film. For example, in the diagram below, the dotted line represents a pane of glass, so this installation is safe.



Please post a written warning on any barrier to the projection area so any cleaning or maintenance personnel who need to enter the area know how to turn off the power. The next diagram shows an installation which is not safe.



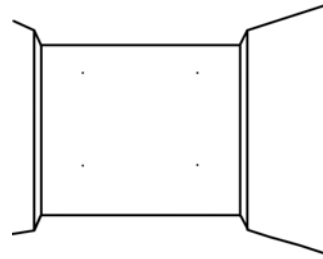
There must be no way a consumer can look directly into the projection beam, which is 20°

### FILM MOUNTING

The film stops the blue ray laser light, down converting it into visible light. For safety reasons the film must be set up so it stops all of the light from the laser. To get the best transparency, the film must be installed correctly the first time. If the film is removed from the window and reapplied higher, lower, or to the left or the right, the film will have less adhesion, and be prone to having bubbles or streaking under it. For this reason, the installer must determine the correct location of the projector and the film before beginning the installation.

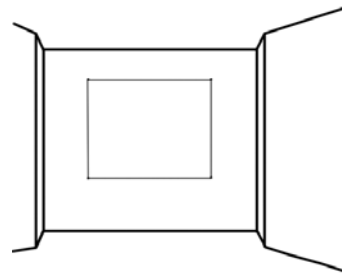
Estimate the approximate location you prefer to have the display on the window, taping where you'd like the corners as shown below. For a permanent installation and the best appearance, it's best to squeegee the film onto the window as per the following instructions. However, if it's difficult to find someone with experience using a squeegee to

apply film, you can use clear double sided sticky tape to adhere the film to the window.



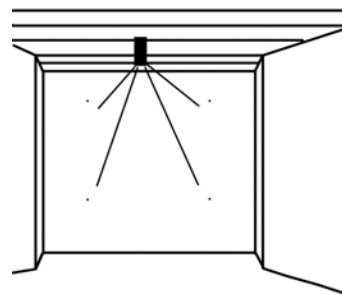
*Tape Check*

The film has a self-adhesive backing, but to first test where the film can go, tape the film in place with gaffers tape/masking tape on the corners.



*Film temporary tape placement for test*

Find a mounting spot for the projector such that the laser will strike the film. Be sure to test the projection angle and size before completing the installation.



*Projection angle (approx 20°) is within area of film.  
This is required for safety.*

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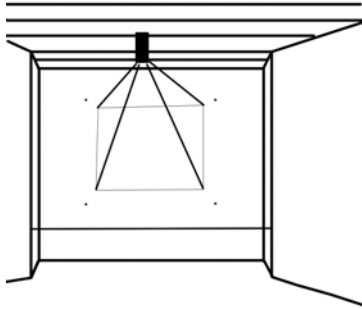
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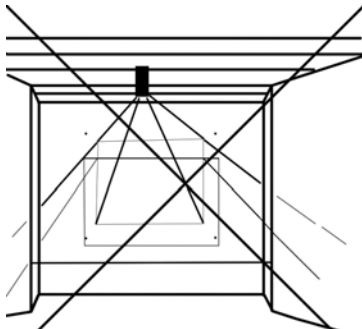
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*Safe installation: Projection area is slightly smaller than film*

Wearing UV eye protection, turn the projector on in the prospective installation area. If the part of the image goes beyond the edge of the film, as shown below, adjust the projector and/or film placement so the entire image is projected onto the film.

Some installers may find it easier to hold the projector close to the projection screen, turn it on so it's putting out images, and slowly back up to determine the maximum appropriate distance. (*Note the projector is fragile, and warranty does not cover dropping the projector.*) Note that with a smaller size of film, the projector has to be installed close to the film, and conversely with bigger film, the projector is further away.

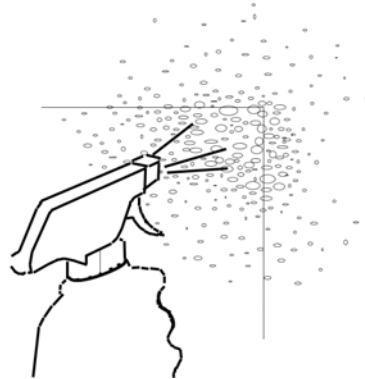


*Bad projection area & film placement*

Once you've verified the placement such that the film stops all the blue ray light, you can mark the required location with tape on the outside of the glass and attach the film to the inside glass surface. Perform the following steps to install the film on the window.

Spray the glass with soapy water. You can make soapy water by adding roughly 60-120 ml (2oz-4oz) of

liquid dish soap to an empty rinsed spray bottle, and then filling with water.



The objective of the soapy water is to help remove bubbles between the film and the glass. So, the more soapy water you have on the surface, the better. Spray until the glass is completely coated and little streams run down the window.



*Beginning to spray top right corner of glass before putting film on it*

Pinch the corner to separate the film from its back cover. Sometimes you can use masking tape to get the two corners to separate more easily. The back cover is a thin layer, removed to expose the self-adhesive backing on the film. Note the film is thick compared to the back cover.



*Peeling off the back cover, exposing self-adhesive*

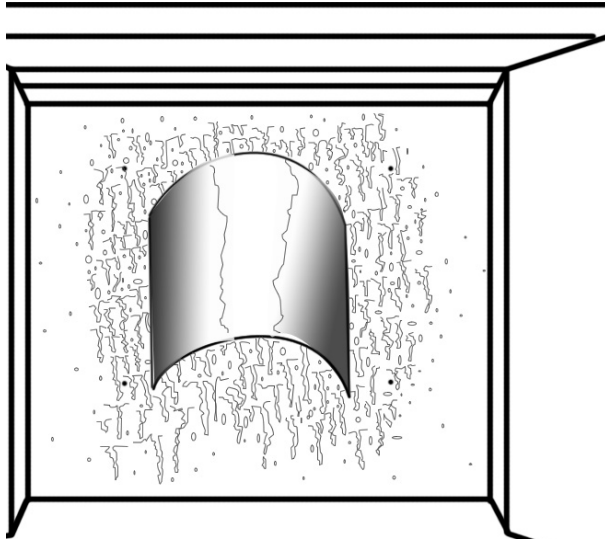
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For our standard films 40"x40" and larger, use two people to hold and install the film to ensure it isn't damaged.



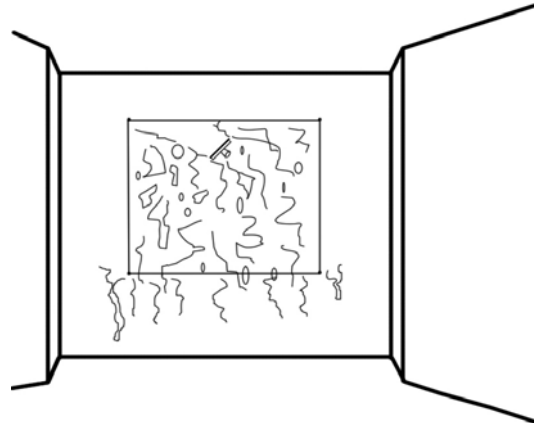
*Be careful when aligning film to ensure it aligns to the correct spot, and has lots of soapy water under it.*

Please note you can drag the film across the glass a little if enough soapy water is underneath. Do not remove the film once adhered to the window; the self adhesive will retain some stickiness, but each time the film is removed and re-adhered, its ability to stick to the window is diminished.

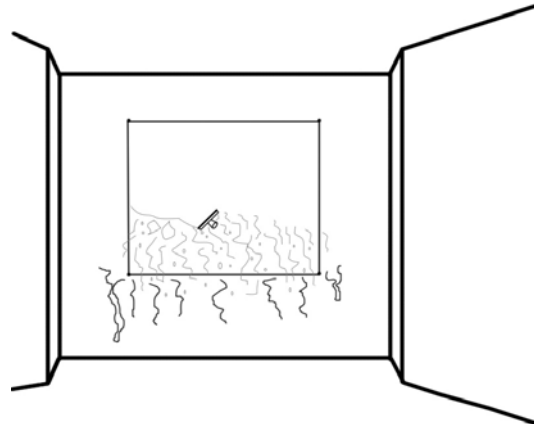
Use a squeegee to remove water from under the film. A squeegee is a tool with a rubber edge for cleaning glass.



*Squeegee*



*The squeegee "squeezes" water out from under the film.*



*Be careful to get all the water and bubbles out to ensure maximum transparency and clarity.*

To ensure an installation without remaining bubbles or streaks under the film, we recommend having the film professionally installed if you have no experience with window films.

If suspending the projector from the ceiling, we recommend making a platform which will be absolutely secure to ensure the projector can't fall off.

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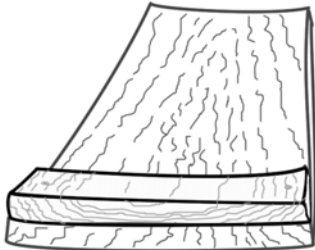
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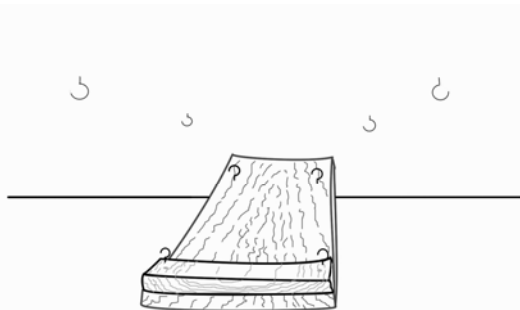
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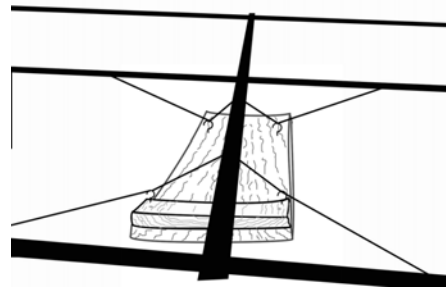
*Projector mounting board*

For a simple installation platform, use a board such as 15" long x 7.5" wide x 5/8" thick. Cut a strip of wood off and screw onto the end as shown as a block for the downward-facing angle of the board. Drill holes using a 3/32 drill bit, and screw the strip into place.



*Ceiling hooks should be installed at an angle away from the projection surface for maximum stability.*

If installing on a grid ceiling, you can hang the platform from a single bar, but you need stabilization chains or lines to ensure the platform can not move. If there's any doubt about platform stability, consult an installation professional or add parts to ensure the projector can't be dislodged from the platform due to vibration or earthquakes.



*Ceiling grid installation*

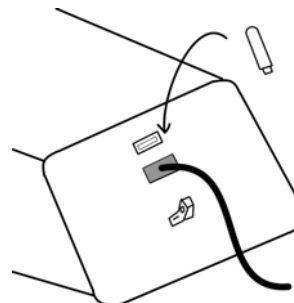
### WIRING

Check sticker on the back of the projector whether you have a 230VAC model or a 115VAC model. Provide correct power to the projector power inlet wires. For installations in Japan where the power is 100V or 200V, 100V is OK for 115V input units, and 200V is OK for 230V units. If you need to switch from one type of power to another, please contact us for technical support, or alternatively use a transformer.

Please ensure there is an off switch that can readily be accessed so the projector can be turned off in an emergency, or to perform cleaning or maintenance in the projection area. The switch should be clearly labeled, such as "laser projector power."

### PROGRAMMING

Programming consists of readying files on the USB drive using a Windows operating system computer, and then plugging the USB into the back of the projector. For some early prototypes SuperImaging may provide pre-programmed USB drives instead of this software.



*USB drive plugs into back of projector*

When using the SuperImaging software, select which files you want to burn onto the projector USB, select the USB as the target for the files, and then convert them. Usually the conversion takes a couple minutes. If you have an unusual projection angle is outside 45°-

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60°, adjust the angle setting before converting the file, so the laser will adjust for the projection angle. You can then plug the USB into the projector and run the files.

files. If cycle has not been selected, the projector will just play the one file selected.

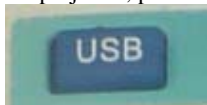
### OPERATION

Operation of the MediaGlass controller is controlled by the remote. On power up, wait 20 seconds for the system to warm up before inserting the USB drive.



MediaGlass Remote Controller

Once you've plugged the USB drive into the back of the projector, press the buttons in the following order:



Press the USB button to select the USB input.



Press the number one button to select the first file on the USB. When pressed, the projector will display a "1"



Press the play button to play the file



Press the cycle button, and the projector will play all files in order starting with the file number selected

Note that you can play a different file # by selecting that # on the remote and pressing play. If cycle has been selected, the projector will loop through all the

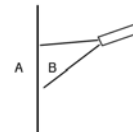
### MAINTENANCE

The MediaGlass projector contains no user-serviceable parts. If the projector stops operation, see warranty for repair policy.

If the remote stops working, or requires that you be closer to the projector for the remote to work, replace the batteries.

### SPECIFICATIONS

- Projector Weight: 7 lbs.
- Projector Size: 10" long x 8.75" wide x 5" tall
- Laser output: nominally 405 nm @ 200mw
- Voltage: 115V or 230V, depending on the projector model, & 60 hertz
- Current consumption: 0~0.6A/110V;0~0.3A/220V, with slightly higher consumption up to 1 amp for a few seconds at startup
- Brightness: Same on both sides, but measured as lumens on side B, nits on side A:
  - A. 100~1600 nits depending on projector distance
  - B. 74-148 lumens depending on distance



- Beam angle: ~20°
- Laser class: IIIB, avoid exposure to beam
- Min/maximum angle of recommended laser projection: 10°-90°
- Max Projection Size: 9' x 9' (3 x 3 meters)
- Projection range: 1'-10' (.3 meters-3.1 meters)
- Enclosure waterproofness rating: Not water resistant, indoor installation only, away from moisture
- Operating Temperature: 50°F-95°F (10°C-35°C)
- Film substrate: ~PET
- Film Layers: Hard scratch resistant top, self-adhesive back
- Emission light: ~450 nm blue with standard projector + film, (610 red, 535 green if/when those films are used)
- Film lightfastness: Excellent
- Film transmittance: 1% or less
- USB file type: UPD
- Line width is ~2 mm. equivalent on a 1024x768 projection display on 100" screen.
- Frame rate: nominally 20~40 frames/sec. depending upon display content.

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### WARRANTY

**WARRANTY:** We warrant our products to be free of defects in material and workmanship for three months from date of original shipment. During the warranty period SuperImaging will repair or replace defective products free of charge if such products are returned with all shipping charges prepaid and if, upon examination, the product is shown to be defective. This warranty shall not apply to products damaged by abuse, neglect, accident, modification, alteration or misuse. Normal wear is not warranted. All repairs and replacements under the provisions of this warranty shall be made at SuperImaging or at an authorized repair facility. SuperImaging shall not be liable for expenses incurred to repair or replace defective products at any other location or by unauthorized persons or agents. This warranty contains all of the obligations and warranties of the Company. There are no other warranties, either expressed or implied. No warranty is given regarding merchantability or suitability for any particular purpose. The Company shall not be liable in either equity or law for consequential damages, losses or expenses incurred by use of or inability to use its' products or for claims arising from same. No warranty is given for products of other manufacturers even though the Company may provide these products with its' own or by themselves. The provisions of this warranty can not be changed in any way by any agent or employee of the Company. Notice of defects must be received in writing within the warranty period or the warranty is void.

**REPAIR:** For units outside their warranty period, we are happy to quote on repair costs. Please contact us for a repair # and labeling/shipping instructions prior to shipping a projector to us.