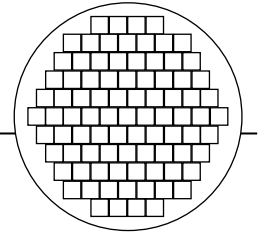
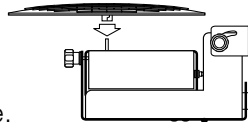


## Solar Multi-Mirror Operating Instructions



The OPTI Multi-Mirror has small mirrors, laid out in a pattern on a convex rotating disc to create multiple animated imagery. Perfect for use with OPTI Abstract Wheels, especially snow, the OPTI Multi Mirror also fragments and animates other effects with spectacular results.

The mirror disc is packed separately from the main body. Unpack both items and firmly push the central boss on the mirror disc over the 'D' section drive shaft on the carriage.



The Multi-Mirror is now assembled and ready to fit onto the Mirror Bracket (supplied) fitted onto the projector.

**Caution:** Take care to ensure that the load is evenly distributed while attaching the mirror disc. Avoid twisting or distorting, as the individual mirrors may become detached. Should this happen, reattach using silicone adhesive.

### IMPORTANT LENS INFORMATION

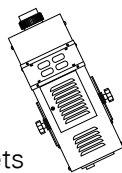
Only use 85mm or 100mm lenses. The wide angle 60mm lens is not suitable.

### POSITION THE PROJECTOR

Before fitting the mirror place or mount the projector in a position and at an angle from where the imagery can be projected onto the desired surface when deflected by a mirror. Then, fit an Effect in the gate.

### Adjusting the Vertical angle of the Projector

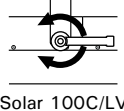
1. Loosen the Bracket Knobs (Solar 250) or Bracket Lever (Solar 100C/LV).
2. Swivel the projector around the brackets axis to desired angle (45° if wishing to achieve vertical movement with Multi-Mirror also at 45°).
3. Tighten Knobs or Lever once in position.



PROJECTION SURFACE



Solar 250



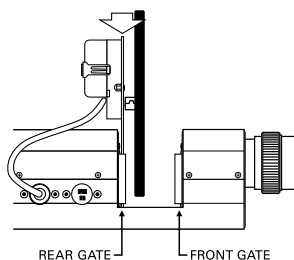
Solar 100C/LV

### Fitting an Effect

1. Fit the Effect(s) onto the Effect Accessory.

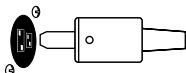
This is usually a 'push-on' (see Effect Accessory instructions for details).

2. Slide the Effect Accessory into the Rear Gate runners of the projector.



REAR GATE FRONT GATE

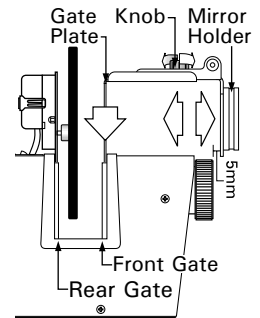
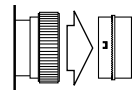
3. If powered, the Effect Accessory is then plugged into one of the 12V~ sockets on the side of the Projector (see Effect Accessory or Projector Instructions for details).



### FIT THE MIRROR BRACKET ONTO THE PROJECTOR

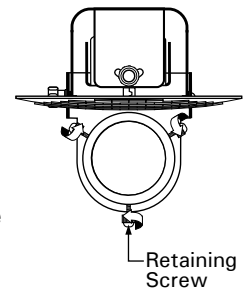
The Mirror Bracket allows any OPTI GoBo Range Mirror to be used on OPTI Solar 100C, 100LV and 250 Projectors.

1. Remove the front part of the projection lens by holding it firmly and pulling off.
2. Check that the distance between the Gate Plate and the Mirror Holder on the Mirror Bracket is greater than the distance between the front gate runners and the end of the lens.
3. If not, loosen the knob on the top of the Mirror Bracket and slide out to a distance apart to allow at least 5mm clearance of the lens once the bracket is slid into the front gate runners.
4. Slide the Gate Plate on the Mirror Bracket into the Front Gate runners of the projector.
5. Tighten the knob on the top of the Mirror Bracket to secure.

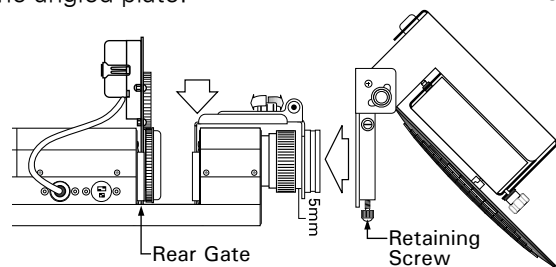


### FIT THE MIRROR ONTO THE BRACKET

1. Loosen the 3 retaining screws around the mounting collar of the Mirror until the ends of the screws, inside the ring, are flush or recessed.
2. Gently push the Mirror mounting collar over the mirror holder on the Mounting Bracket until flush with the angled plate.



Retaining Screw



3. Turn the projector on (with an effect to be projected, on an appropriate Effect Accessory, in the rear gate\*).

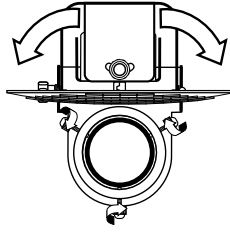
The imagery will now project and, if the mirror is already set at an angle, will be deflected by the static mirrors.

\* When the Mirror Bracket is fitted it is not possible to fit another Effect or Image Altering Effect into the front gate.

## MIRROR ADJUSTMENTS

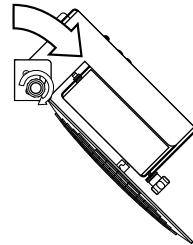
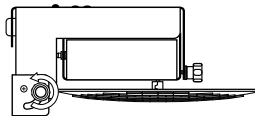
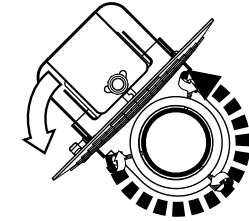
### Adjust the position of the Multi-Mirror around the Projector Lens

1. Loosen the 3 screws around the perimeter of the Mounting Collar.
2. Rotate the Multi-Mirror body through 360° to get the imagery in approximately the desired location.
3. Tighten the 3 screws on the collar. Do not fully tighten these, as further adjustment may be required.



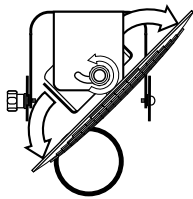
### Adjust the Main Angle of the Multi-Mirror

1. Loosen the knob on the side of the Mirror Body where it connects to the Mounting Collar.
2. Tilt the Multi-Mirror body to the desired position.
3. Tighten the knob. Do not fully tighten as further adjustment may be required.



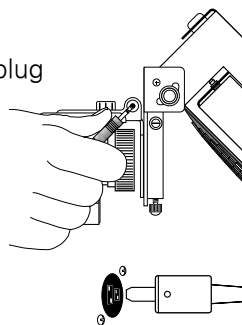
### Adjust the Carriage of the Multi-Mirror

1. Loosen the knob on the end of the Mirror Body where it connects to the Carriage.
2. Tilt the Multi-Mirror Carriage to the desired position.
3. Tighten the knob. Do not fully tighten as further adjustment may be required.



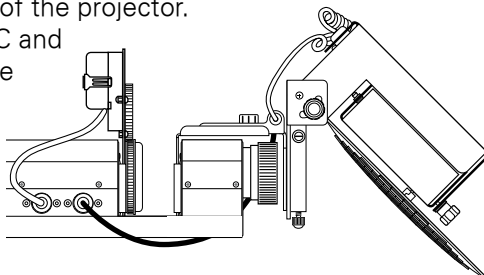
## PLUGGING IN THE MIRROR

1. Plug the Mirror Lead into the jack plug socket on top of the bracket ensuring that the plug is pushed fully into the socket.
2. Plug the two pin plug on the Mirror Bracket into one of the 12V~ sockets on the side of the projector.



Ensure the lead does not interfere with the effect or pass through the gate of the projector.

On the Solar 100C and 100LV connect the lead by passing it underneath the projector.



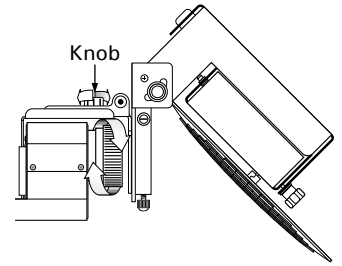
The motorised Mirror will now start to move the image.

3. If necessary adjust and re-adjust the Mirror and Projector to achieve desired movement and position.

## FOCUS THE LENS

To focus or re-focus the imagery being projected:

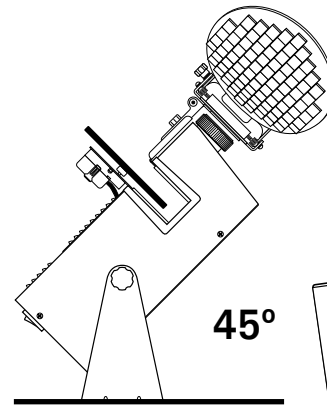
Twist the lens to desired focus. If necessary, readjust the Mounting Bracket by loosening the knob on its topside, sliding in or out, and re-tightening the knob to secure.



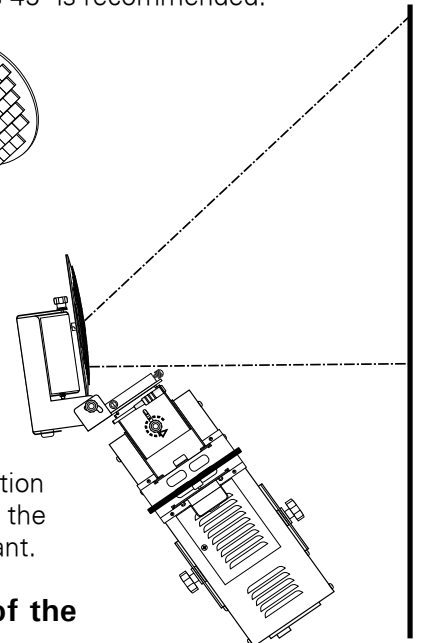
## FALLING OR RISING IMAGERY

### Adjust the angles of the Projector

If a "falling" or "rising" image is required, the projector will need to be set at angles in both the horizontal and vertical planes. For best results 45° is recommended.



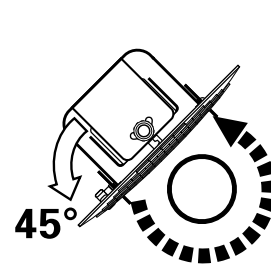
45°



If a random image direction is required, the angle of the projector is less important.

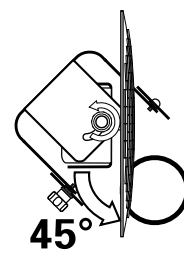
### Adjust the angles of the Multi-Mirror

Once again, for best results, it is recommended that each angle of the Multi-Mirror is adjusted to 45°.



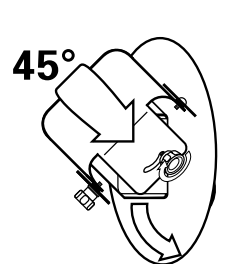
45°

Position around the Projector Lens



45°

Carriage Angle



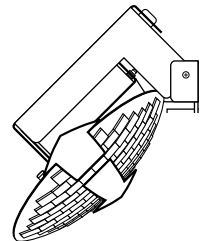
45°

Main Angle

## Fine-Tune Set-up

If required, fine tune the set-up using a combination of tilting and rotating the Projector and Multi-Mirror until the desired motion is achieved.

Once the projected imagery is in the desired location and moving in the correct direction, tighten all screws, knobs (or lever) and securing bolt. It is advisable to securely fix the projector whether suspended or shelf mounted.



If projected image requires any further focus improvement, adjust focussing lens by twisting it.