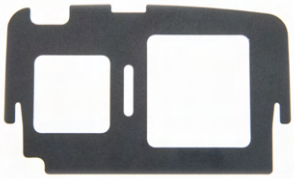
Camtraptions Camera Housing Manual

Parts List

Main Enclosure



Camera Base Plate

Lens Cap

Hood

Glass Window

Hood Support

Rubber Clamp Ring

Tube Base Ring

End Tube

50mm Spacer Tube

25mm Spacer Tube

Screws, Hex Keys and O-ring Seals

Assembly

Step 1

Unbox all of the equipment and remove the components from inside the main enclosure. Inside you will find:

- 1x Camera Base Plate
- 1x Lens Cap
- 1x Hood
- 1x Hood Support
- 1x Rubber Clamp Ring
- 1x Tube Base Ring
- 1x End Tube
- 1x 50mm Spacer Tube
- 1x 25mm Spacer Tube
- A bag containing 3x hex keys, 1x tripod screw for attaching your camera to the base plate, 1x long silver screw for tightening the hood support, 4x small black screws for attaching the hood to the hood support, 4x o-ring seals for the stacking tube parts, 3 short silver screws for tightening the stacking tube assembly, 9 silver spacers (in rods of 3) for tightening the stacking tube assembly.

Packed separately to the main enclosure, inside a metal protective case, you will find the Glass Window with its Foam Seal pre-applied.

Step 2

Screw the 3 rods of silver spacers into the three inserts of the end tube – do not over-tighten them (finger-tight is sufficient).

Step 3

Slide 1x of the o-ring seals over the threads of the tube base ring, so that it sits flush against the flat surface.

Step 4

Insert the remaining 3x o-ring seals into the recesses of the 25mm spacer tube, 50mm spacer tube and the tube base ring.

Step 5

Slide the 50mm spacer tube onto the silver spacers, followed by the 25mm spacer tube. Make sure to slide the spacer tubes on the correct way round – the sides with the o-rings should slide on first. Take care to ensure that the o-rings stay fully inside the recesses.

Tip: Wiggling the spacer tube as you slide it on can help free it if it gets snagged on the silver spacers. Applying some gentle outward pressure to the silver spacers can also help with sliding on the spacer tubes.

Step 6

Place the black tube base ring onto the end of 25mm spacer tube. Gently slide it around until you feel it slot into place. Align the holes in the tube base ring with the holes in the silver spacers. Take care to ensure that the o-ring stays fully inside the recess of the tube base ring. Insert the 3x short silver screws into the three holes and tighten the whole assembly with the smallest 2.5mm hex key. Tighten the screws firmly, but do not apply excessive force.

Step 7

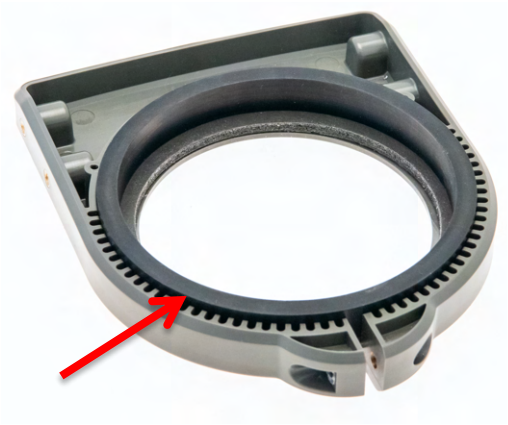
Carefully remove the glass window from its protective metal case and unwrap it from the white tissue paper. You will find that the foam seal has been pre-applied to the surface of the glass window.

Step 8

Insert the glass window into the circular receptacle of the hood support, with the glass sitting directly on the hood support and the foam seal facing upwards. The foam seal will sit against the plastic surface of the end tube.

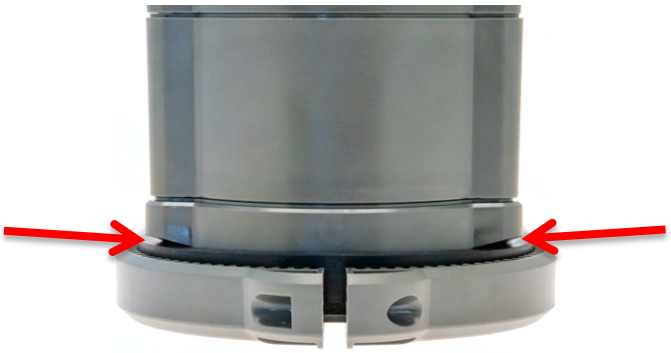
Step 9

Place the rubber clamp ring inside the hood support receptacle, on top of the glass window's foam seal. Ensure that the rubber clamp ring is pushed in fully so there is no gap between the clamp ring and the foam seal.



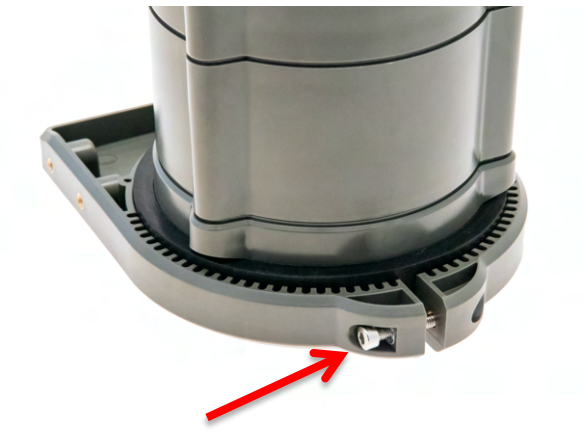
Step 10

Push the lens tube assembly down into the hood support receptacle, so that the end tube section is surrounded by the rubber clamp ring. Ensure it is pushed down evenly and fully so that there are no gaps and the end tube section is making firm contact with the glass window's foam seal inside.



Step 11

Insert the long silver screw into the bottom of the hood support, making sure it goes in from the side with the blank hole first.



Step 12

While keeping firm downward pressure on the lens tube assembly with one hand (to keep a good seal between the end tube and the glass window's foam seal), tighten the long silver screw using the medium size hex key. Keep tightening this screw until the hood support is firmly clamped around the lens tube assembly.

Step 13

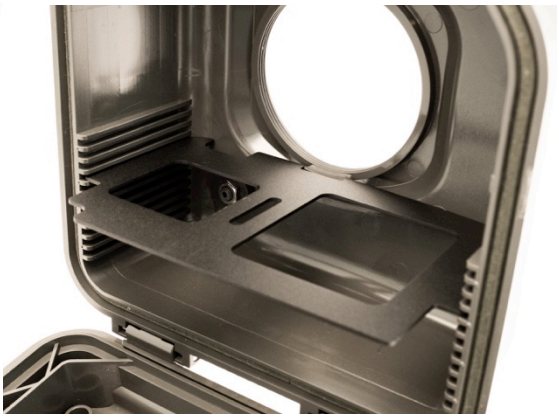
Insert the threaded end of the lens tube assembly into the enclosure opening. Be careful to check that the thread is lined up before tightening the lens tube. Turn the lens tube assembly clockwise to screw it in to the enclosure. You should tighten the lens tube so that it grips the enclosure firmly but do not apply so much force that the plastic thread on the enclosure is damaged.

Step 14

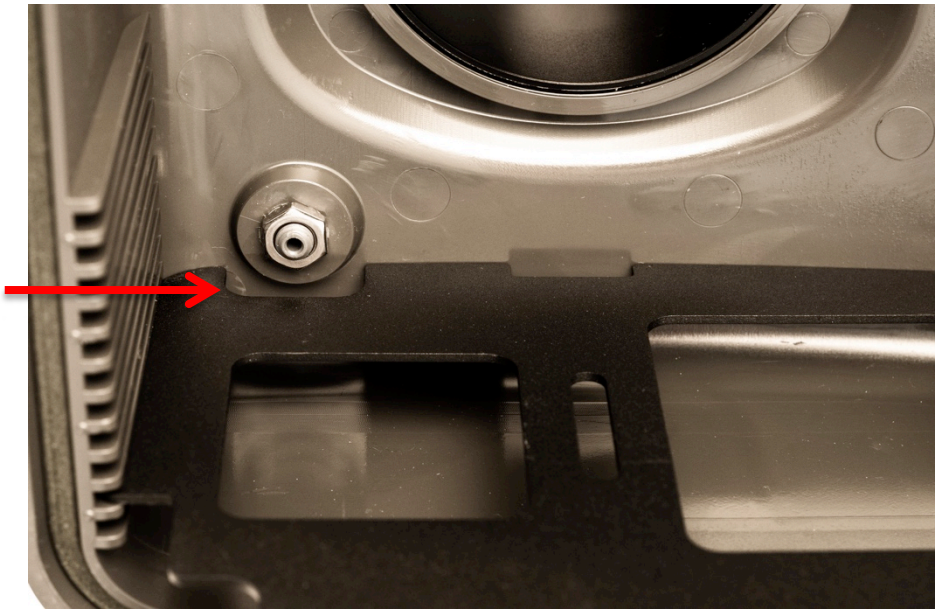
The orientation of the hood support can be adjusted by fully loosening the silver screw underneath, twisting the hood support and then tightening the screw again. However, make sure to always apply pressure on the hood support when loosening and re-tightening the silver screw, so as to maintain a good seal between the glass window's foam seal and the lens tube assembly. Use the lens cap to protect the glass window during transportation.

Step 15

Slide the camera base plate into the enclosure. You can set the height of the camera using the steps on the inside of the enclosure. The height should be adjusted so that the centre of the lens lines up with the centre of the lens tube. On new camera base plates, there are metal tabs on each side that can be bent slightly upwards with pliers, to prevent it from sliding out.



Ensure the camera base plate is orientated so that the cut-out is on the same side as the valve.



Step 16

Secure the camera to the base plate using the tripod screw and the largest hex key. Position your camera on the base plate so that the front of the lens is as far forwards as possible (i.e. almost touching the glass window).

Step 17

Attach the hood to the hood support using the 4x black screws and smallest hex key. The hood may have a protective film on the outside surface which can be peeled off.

Step 18

The height and angle of the hood should be adjusted based on the field of view of the lens. The hood should be lowered as far as possible in order to provide maximum protection, but not so far that it appears in the camera's field of view. Tighten the black screws to lock the hood in place.

Step 19

Check that the foam seal between around the enclosure opening is free of grit and debris. Close the back door of the housing and secure it shut using the two latches. The latches can be locked shut using a padlock or cable ties if desired.

Wired Set-ups

The enclosure does not come with holes for wired set-ups, but pre-drilled 15.5mm in the bottom surface can be purchased as an optional extra. These pre-drilled holes are compatible with the Camtraptions Female Waterproof Entry Cable and Waterproof Cable Glands.

Furthermore, three guides in the back door identify positions where smaller holes can be drilled for cables. Once cables have been run through the holes, it is recommended that any gaps are plugged, for example using bathroom silicone sealant.

Portrait Orientation

The camera housing has tripod threads on the bottom and side, allowing it to be mounted in landscape or portrait orientation. The hood support can be twisted so that the hood provides shade in either orientation.

Weather Proofing

Note that this product is not intended for use underwater.

To ensure optimum weather sealing, make sure all seals are clean and free from debris. Seals are located between the glass window and lens tube assembly, between the lens tube assembly sections, between the lens tube assembly and the main enclosure, and around the enclosure door.

If working in humid or damp environments, you may want to use a sachet of silica gel desiccant to absorb any moisture trapped inside the enclosure.

The valve in the front of the housing is intended to equalise air pressure inside the housing during changes in altitude or temperature.