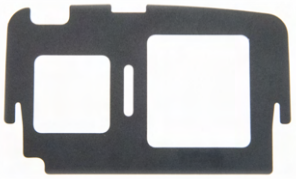
Camtraptions Camera Housing Manual

Parts List

Main Enclosure



Camera Base Plate

Lens Cap

Hood

Window & Seal

Hood Support

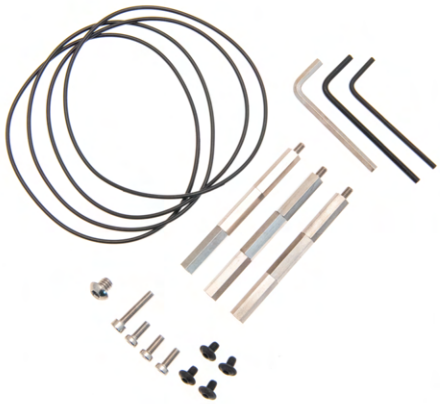
Clamp Ring

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 White envelope containing the glass protective window and a stick-on foam seal
- 1x Hood Support
- 1x Clamp Ring
- 1x Tube Base Ring
- 1x End Tube
- 1x 50mm Spacer Tube
- 1x 25mm Spacer Tube
- Plastic zip lock 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.

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

Open the white filter envelope and remove the glass from the tissue paper. Remove the backing to the sticky foam seal and carefully apply the foam seal to the glass filter, ensuring that it sits evenly and exactly around the edge of the glass. The position of the seal can be adjusted for a short time whilst being applied if you do not push it down firmly. Once you are happy with the position, push on the foam seal firmly around its length to secure it.

Step 8

Insert the glass filter 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 will sit against the metal surface of the lens tube.

Step 9

Place the clamp ring around the end tube part of your lens tube assembly.

Step 10

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 11

Align the open part of the clamp ring with the open part of the hood support and insert the lens tube assembly and clamp ring into the hood support. Push the lens tube assembly firmly against the foam seal so that the glass window is sandwiched securely against the hood support. Use the medium hex key on the silver screw to tighten the hood support so that it grips tightly around the end tube.

Step 12

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.

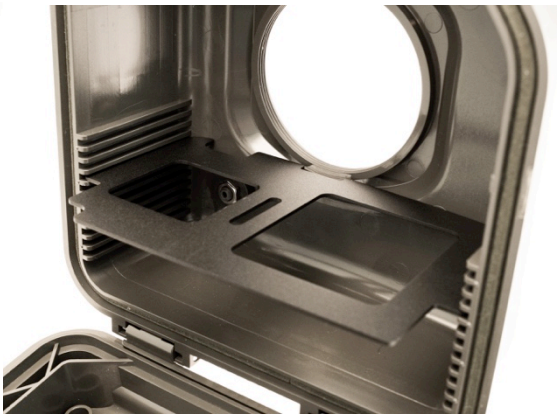
Step 13

The orientation of the hood support can be adjusted by loosening the silver screw underneath, twisting the hood support and then tightening the screw again.

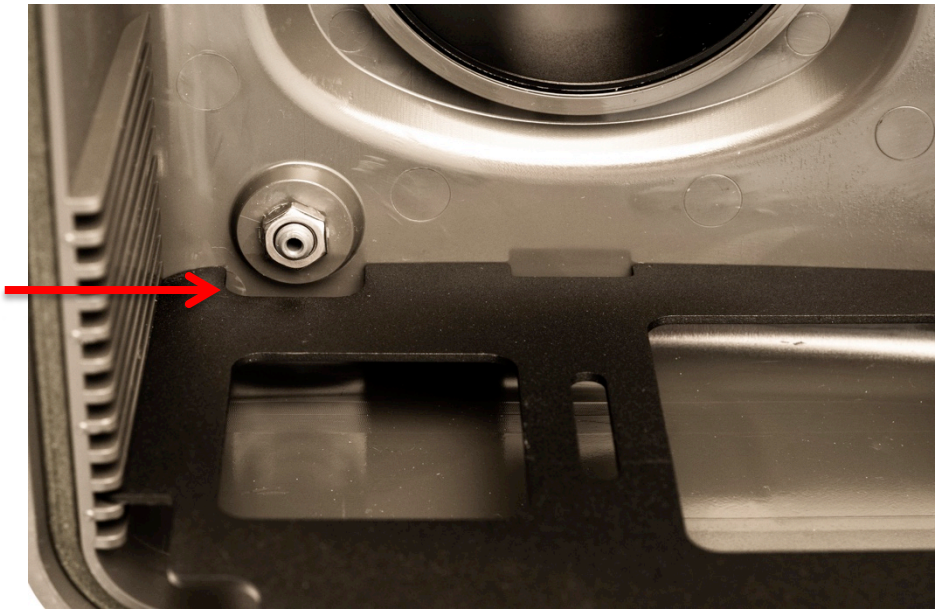
Use the lens cap to protect the glass window during transportation.

Step 14

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 15

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 16

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 17

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.

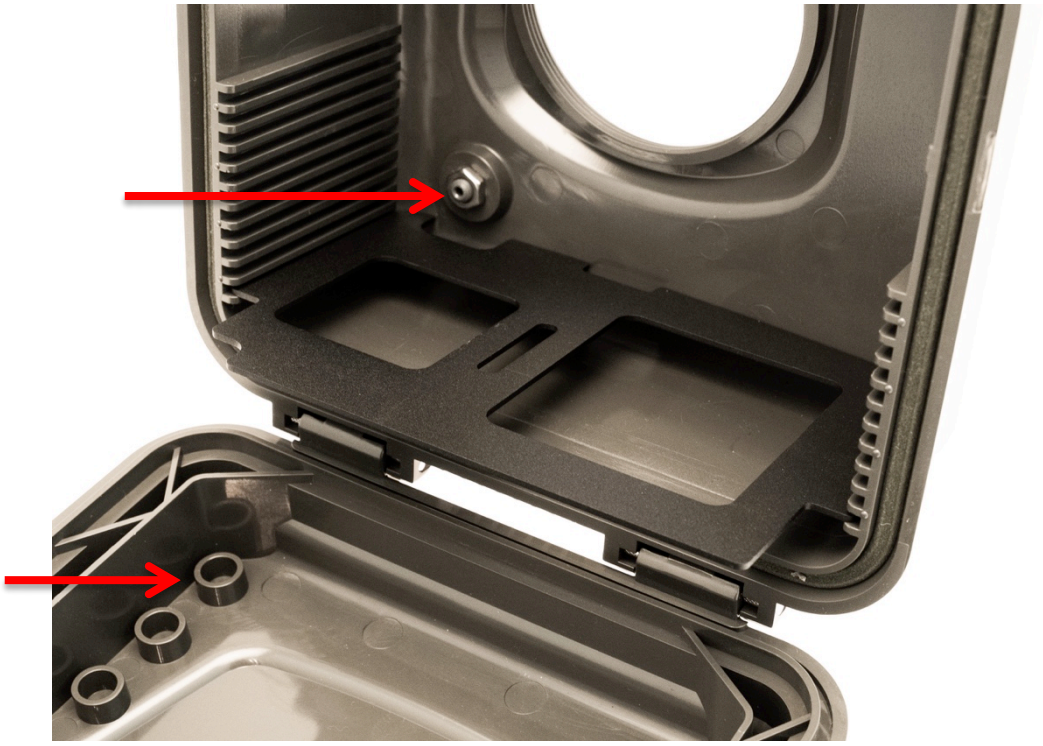
Step 18

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

To ensure maximum weather-sealing, the enclosure does not come with holes for wired set-ups. However, three guides in the back door identify positions were holes may 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.

Another option is to remove the valve in the front of the housing and use this hole for cables instead.



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, between the lens tube and enclosure (the black o-ring around the base of the lens tube) and around the enclosure door.

If working in humid 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.