



Here is how I turned a cheap web camera into a IR camera.

The cheapest camera I could find on eBay was this one at £3.59

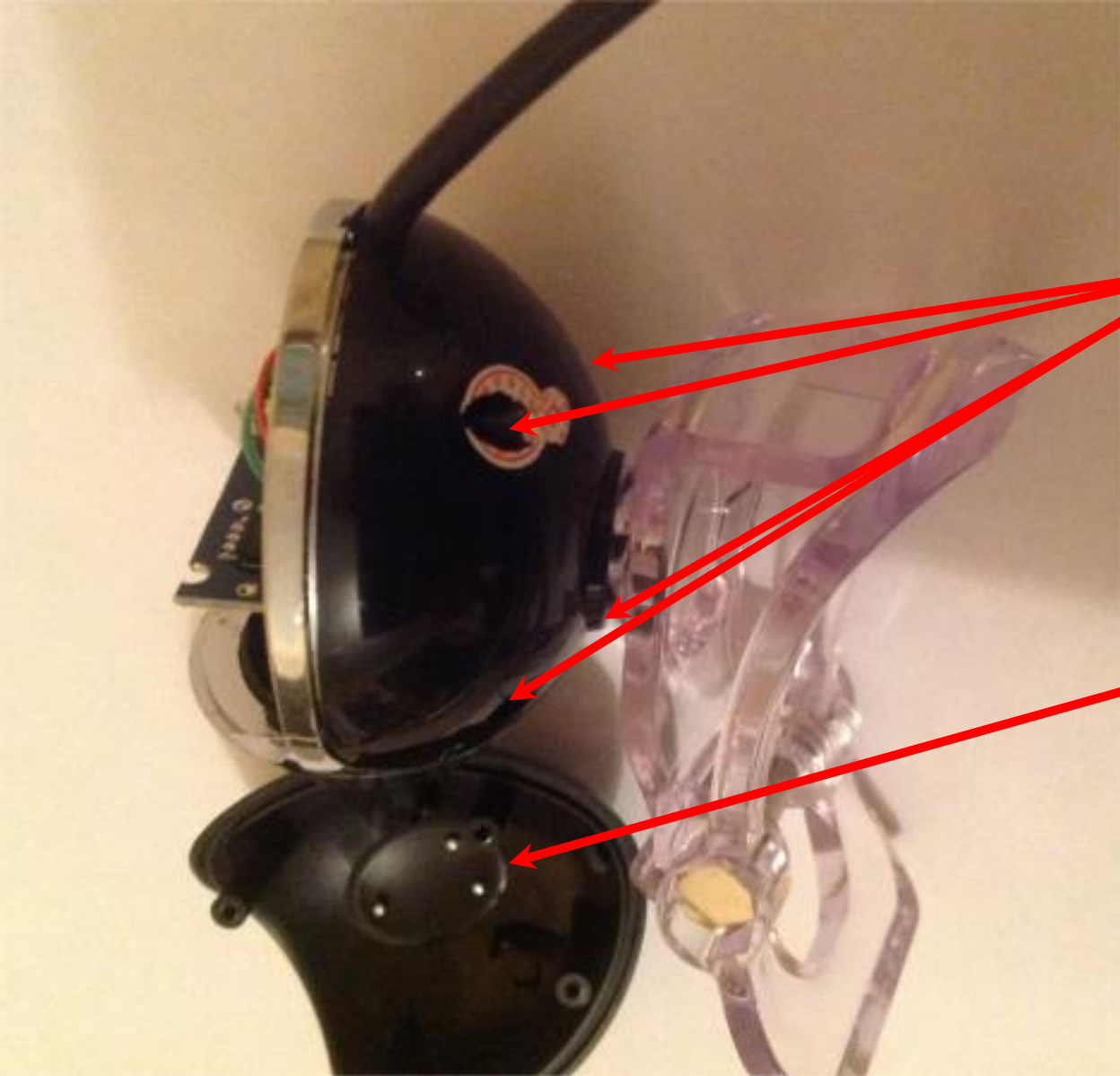
<http://www.ebay.co.uk/itm/360773671928?ssPageName=STRK:MEW NX:IT& trksid=p3984.m1497.l2649>

You can purchase IR glow sticks on eBay.

<http://www.ebay.co.uk/itm/BOX-OF-10-IR-Cyalume-Chem-lights-British-army-Infrared-3-hour-ID-marker-/310835118276?pt=UK Collectables Militaria LE&hash=item485f3780c4>

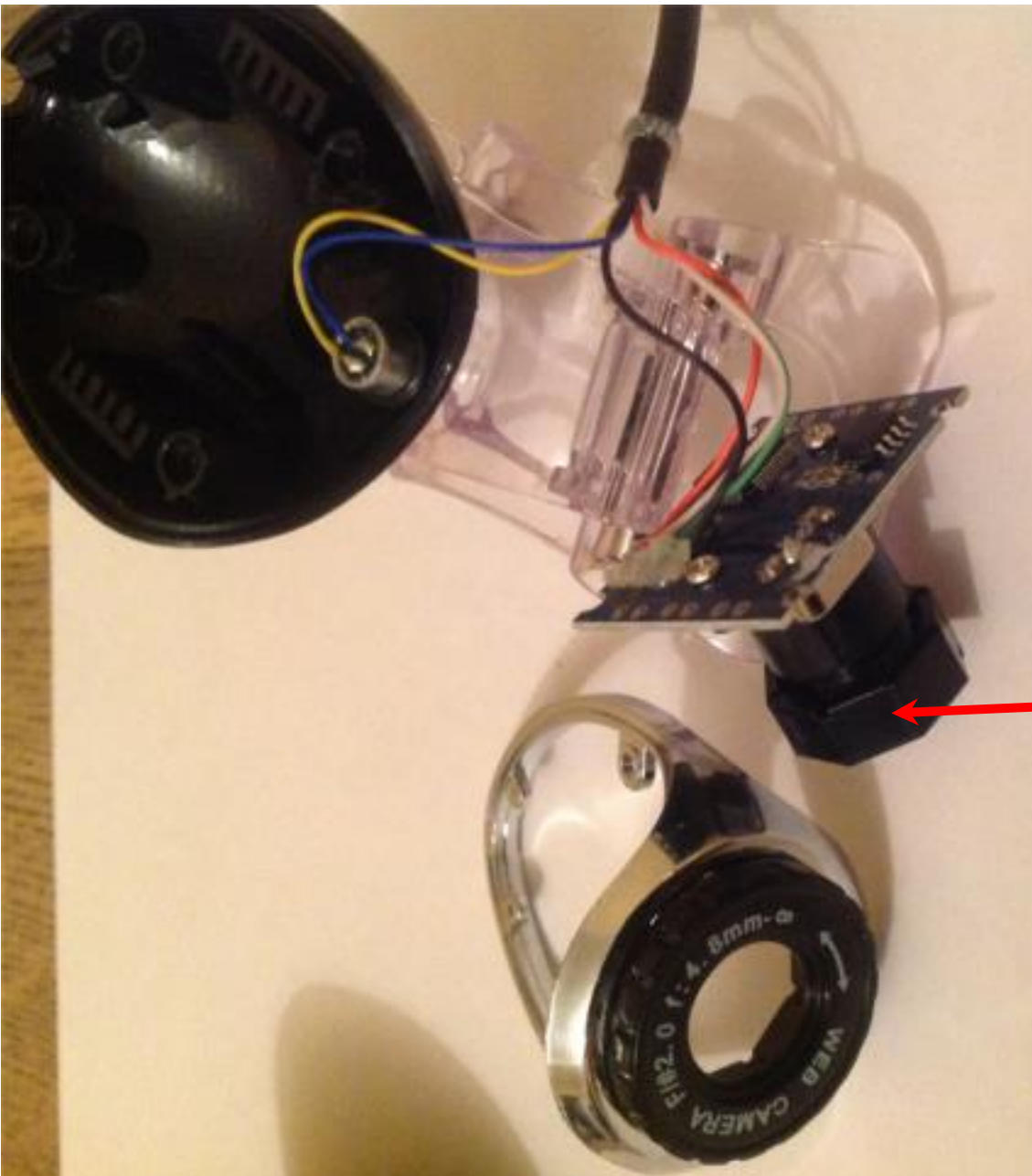


Remove this top plate by unscrewing the 4 small screws on the underside of the camera.



Removing these 4 small screws

Will enable you to remove the top of the camera.



Now you carefully remove the inner part of the camera.

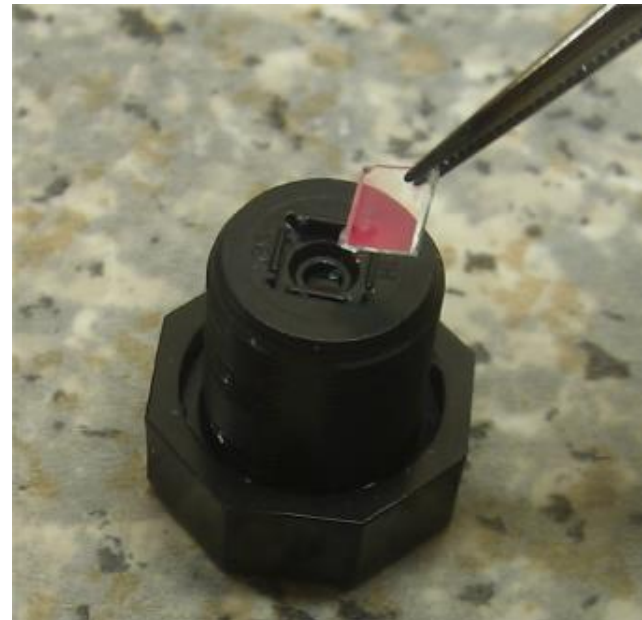
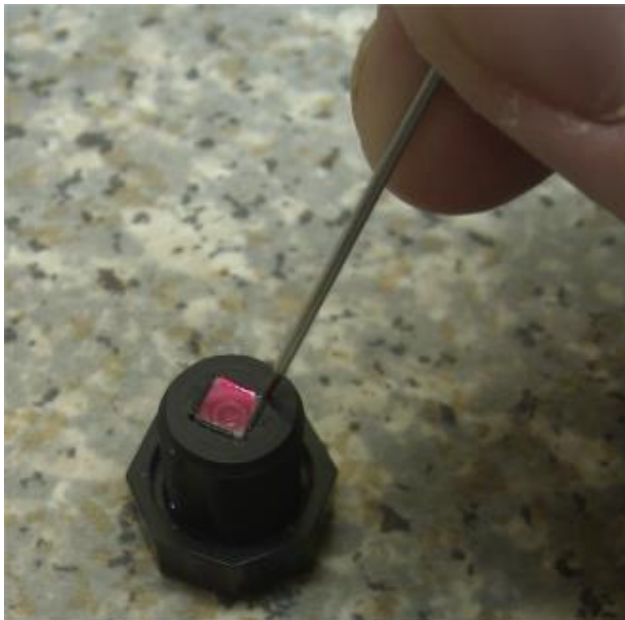
It is important not to break any connections with the wires and the board.

You need to unscrew this piece gently by hand until it comes out of its housing. This is the part with the IR filter.



The piece of glass is the IR filter. You need to gently prise it out of its recess.

I dug a large pin into each corner. Then used tweezers to remove the glass filter.





This was the IR glow stick I purchased on EBay.



This is how the stick look when activated and photographed using my normal camera



This is how the stick look when activated and photographed using my web camera without the IR filter



These two photographs show the IR glow stick and a TV remote through the web camera with its IR filter removed

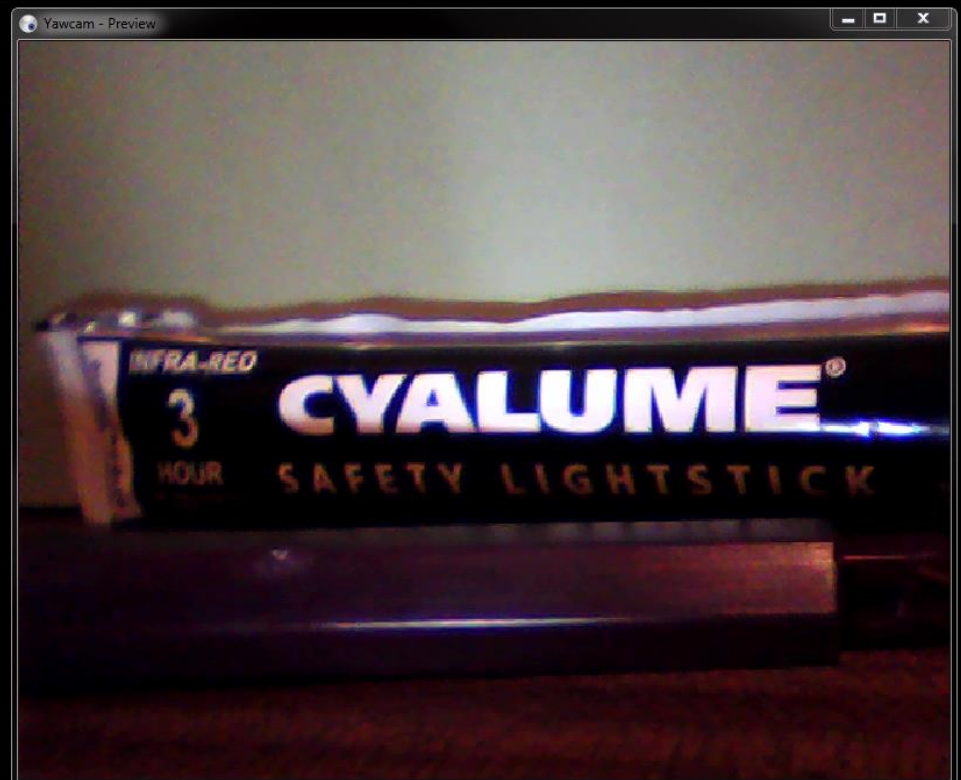


The intensity of the remote using the web camera was a surprise.





The camera on the left has had the filter remove and the one on the right has not.





You can see the IR glow stick once activated emits yet the stick to the eye just seems purple.





Here I am holding the removed filter in front of the lens.