

How do you modify the Microsoft VX-600 web cam to see Infrared

Characteristics:

Camera Brand/Model: Microsoft VX-6000

Interface Plug Type: USB 2.0

Angle View: 71 degrees

FPS/Resolution: 640x480 @ 30fps, 800x600 - 1280x1024 @ 15fps

Performance In Low Light: 8/10

Visible Block/IR Pass Filter Used: 2 layers of over exposed film

OS Tested On: Windows XP SP2

Other Info: The software it comes with is pretty good except you have little control over exposure. You can adjust the slider, but the camera is still managed automatically (You can control the exposure by bringing its slider up and turning off the "auto" check box next to it. But you can't control shutter time, so the camera automatically turns off whenever there's not enough light hitting its lens). Also the wide angle lens isn't too shabby.

Procedure:

- 1: Take the screw out of the back of the main casing
- 2: With a flat head screw driver, pry apart the three edges that are clipped together



3: The lens component attached to the circuit board should come out easily, you may need to twist it a bit, but mine fell out practically

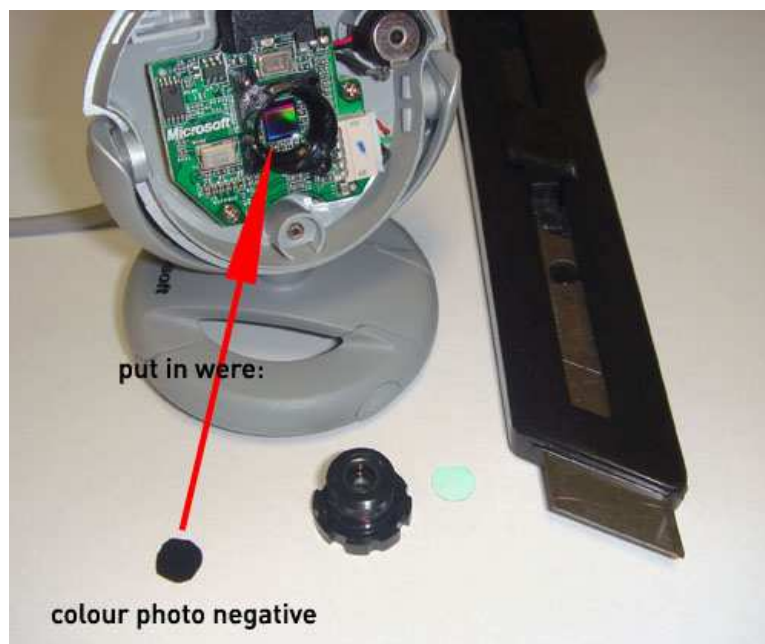


4: (This part is messy) The piece of glass in the lense assembly that is closest the circuit board when assembled is the IR filter, it shines red when held at a certain angle... it is stuck in there pretty good, I used a safety pin to dislodge it, however it did crack in half and chip on the edges... (It's just a little piece of glass behind the lens which will pop out by using a knife)





5: Take 2 pieces of colour photo negative ends cut to the size and shape of the IR filter, and place them onto the lens assembly (affixing them somehow would be advisable, but I didn't do that yet, as I don't know what glue to use



6: reassemble the whole camera
7: Use a remote or sunlight and take some pictures!

This information was compiled by José Dinis [<http://nuigroup.com/forums/member/464/>]
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