

Prusa MK4 / MK3S Mount for Unifi G4 Instant Camera



kgme

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Summary

Unifi G4 Instant camera mount attaches to the extrusion base of an MK4 or MK3S. Merge of 2 models linked below.

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Tags: [mk3s](#) [cameramount](#) [unifi](#) [mk4](#) [cameraholder](#)

This camera mount is a merge of a Unifi G3 Instant camera mount as designed by @Shadow_166024 (<https://www.printables.com/model/307414-prusa-mk3s-camera-stand-for-unifi-g3-instant>) and a Unifi G4 Instant camera mounting plate as designed by @NorthStrider_2969 (<https://www.printables.com/model/405782-unifi-instant-g4-cam-mount-plate>). All credit to them, this is just a sloppy combination of their work!

Can verify the model works well on an MK4, and assume it would work for an MK3S based on the original model used. Unfortunately the close-up focusing on the G4 Instant kinda sucks, but that's to be expected for a cheap surveillance camera. I'm using this to monitor status of printer, not for taking time-lapse videos (although I wish the G4 were capable enough to do so).

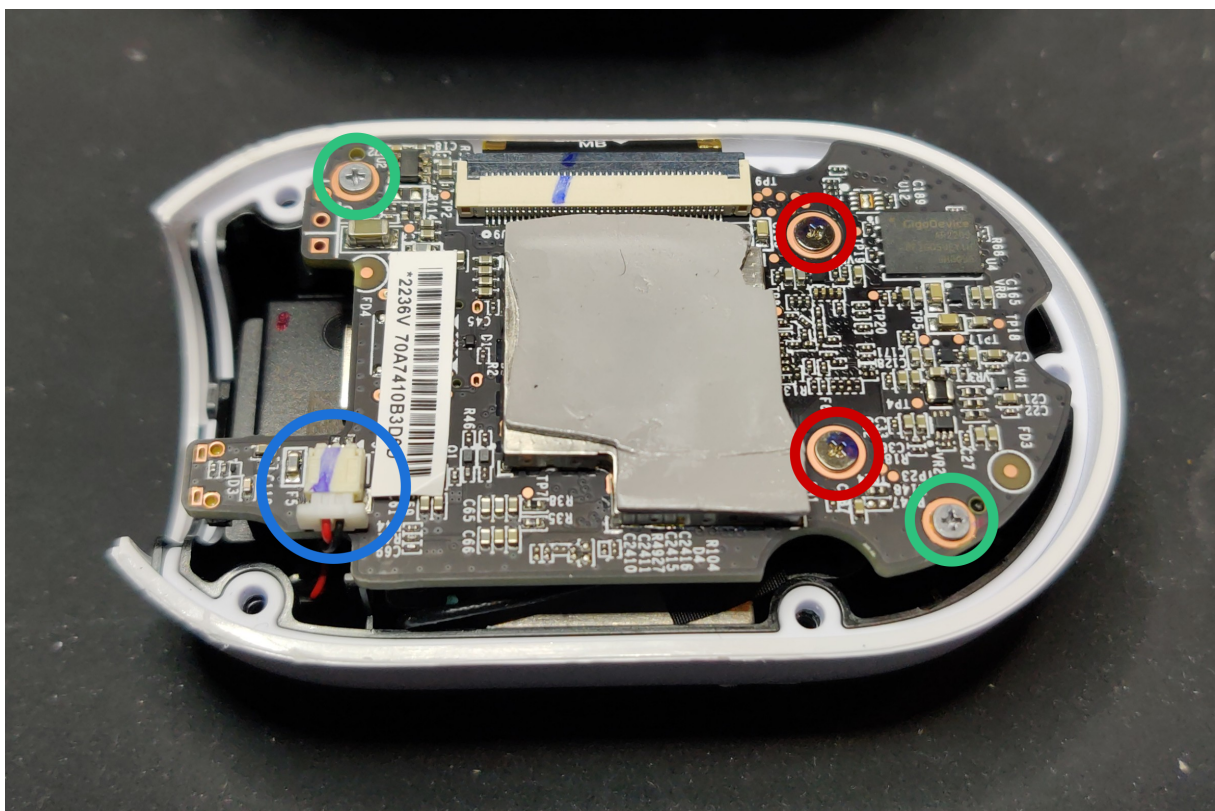
G4 Instant Manual Focus

Thanks to [@dr42_820103](#) for finding instructions on how to manually focus the G3/4 and help troubleshooting. I'm adding those links and will add some commentary from my own mistakes.

<https://community.ui.com/questions/How-to-adjust-focus-on-G4-Instant-camera-or-open-it-to-manually-adjust-lens/f9f352d3-13a3-400a-a8de-f19dae65a710>

https://www.reddit.com/r/Ubiquiti/comments/otcsxt/manual_focus_for_g3_instant_completed_with/

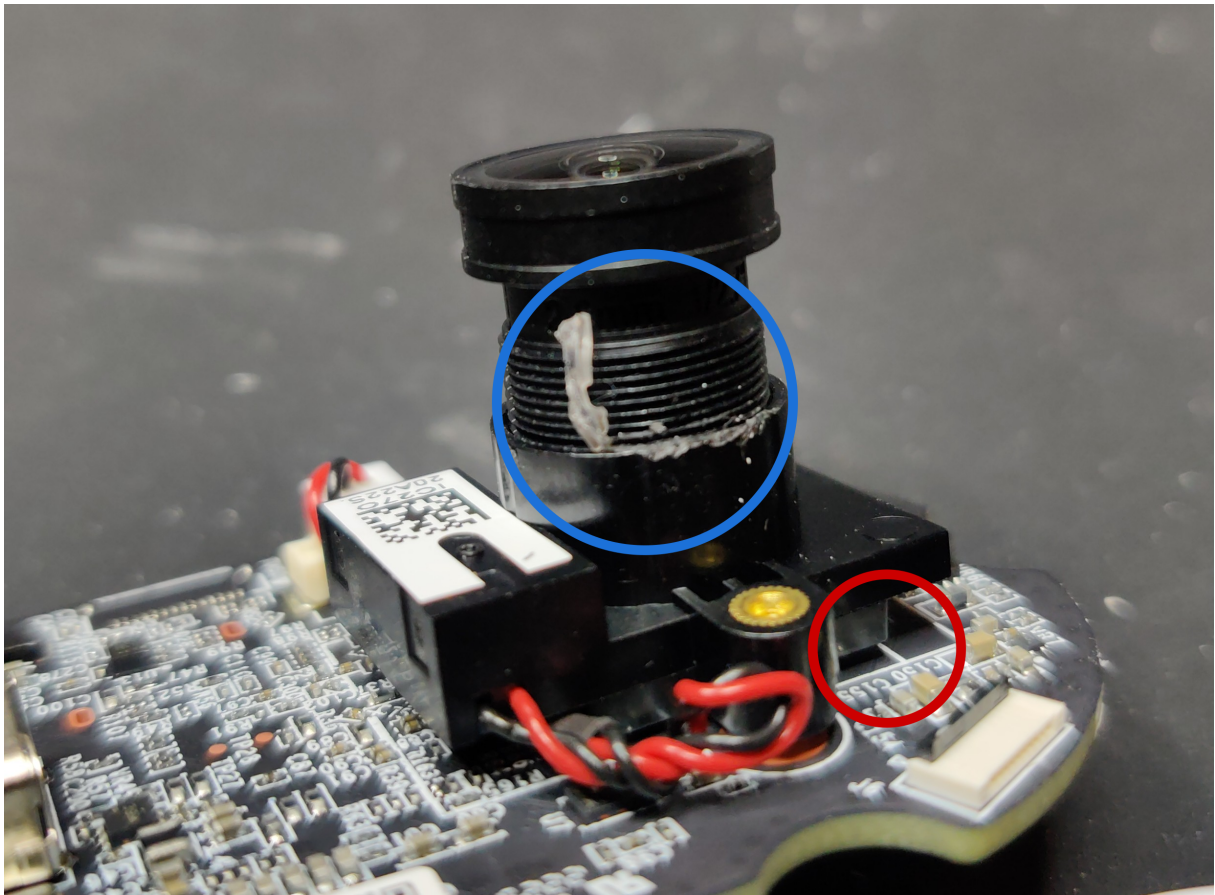
Those will get you there if you read them carefully (unlike me), but just a quick couple comments from me. A comment mentions two tiny screws on the back of the PCB. There are actually 4, two of which can cause problems if you are not careful. An attached image below shows the 2 screws marked in green to unscrew. Do not unscrew the red. If you do, the lens will separate from the sensor and it will take some fiddling to remount it flush. If the lens is not flush, you will get a weird fish-eye focus effect.



The blue circle points out a power connector. Comments in the threads mention needing to reconnect this in order to power the camera. That's not accurate. In order to reattach the cable, you need to swing the camera back into the housing which makes adjusting super difficult. Instead, just plug the USB connector in and let the front housing dangle. The camera is fully operational and you can adjust the focus in real time while watching

from a monitor. Much easier. I didn't trace the power cable, but my assumption is that it powers the front LED/infrared.

This image shows the lens just slightly off from the sensor. Also want to point out the glue. It's on either side of the lens, and can easily be removed with an Xacta or similar blade. Just start separating the glue at one end, then you can peel it away in one strip with some tweezers. Unlike comments in the original instruction, I did not "clean up" the glue on mine. Simply peeling the strips enabled turning of the lens while maintaining a tight hold to prevent the lens from moving in the future. I'm not sure if cleaning it would loosen it, but didn't see the need to find out.



The first 2 sample images in the photos are after manual focus, the last image is before manual focus.

This remix is based on



Prusa MK3S Camera Stand for unifi G3 Instant

by Shadow



UniFi Instant G4 Cam Mount Plate

by NorthStrider

Model files



g4-mount.stl

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