(1) Issue Description  
(2) Screenshot of error  
(3) Log of chat with arducam support during their remote session  
  
Connected to camera port zero on Pi 5.(Also used port 1)

Issue: Autofocus not working

-------

Steps to replicate from a fresh install

Instructions from: IMX519 section of:

https://docs.arducam.com/Raspberry-Pi-Camera/Multi-Camera-CamArray/quick-start/

-------

(1) Make new OS image - Bookworm 64bit

(2) Boot, enable VNC, install updates

(3) Download driver:

wget -O install\_pivariety\_pkgs.sh https://github.com/ArduCAM/Arducam-Pivariety-V4L2-Driver/releases/download/install\_script/install\_pivariety\_pkgs.sh

(4) Install driver

chmod +x install\_pivariety\_pkgs.sh

(5) Install libcamera

./install\_pivariety\_pkgs.sh -p libcamera`

(6) Edit [all] section of the config file

sudo nano /boot/firmware/config.txt

(7) Add value to bottom of config file under [all] - the cam0 argument is due to using port zero for the camera.

``dtoverlay=imx519,cam0

(8) Save and exit nano

(9) Use libcamera command to test camera, sadly no autofoocus working at all on any camera:

libcamera-still -t 5000 -o outputimage.jpg --autofocus-mode continuous`

(10) Try using I2c to switch modes to only use one camera (value is 6 as that works for me, instructions use 10):

i2cset -y 6 0x24 0x24 0x02`

(11) Re running command on step 9, still no autofocus.

Sadly still seeing an error message with every libcamera command (See image)

A screenshot of a computer

Description automatically generated  
  
  
  
**Chat log with arducam support:  
  
IvanG-S — Today at 05:45**

**ok all setup, message or call when you're about. I'll do some work in the meantime**

**Schrödingers'Katze — Today at 06:05**

**ok**

**plz send me the teamviewer's id and pw**

**IvanG-S — Today at 06:08**

**Please use the credentials below to start a session. TeamViewer ID: 612 366 767 Password: dvp1ibs1**

**Or I can take a session code**

**Schrödingers'Katze — Today at 06:09**

**Let me start a google meeting**

**oh damn, I left my air pods home**

**Let's chat here.**

**IvanG-S — Today at 06:10**

**ok**

**Schrödingers'Katze — Today at 06:11**

**can u see RX0 ~ 3 port on the HAT board?**

**IvanG-S — Today at 06:11**

**you can use the pc, I can reply on discord on my phone**

**Schrödingers'Katze — Today at 06:11**

**okay**

**Schrödingers'Katze — Today at 06:13**

**any clue?**

**I need u remove the camera from the hat board.**

**Before that, we need to mark every imx519 camera module**

**IvanG-S — Today at 06:14**

**Sorry not sure on that.**

**The hat is connected via cam zero on the pi 5**

**OK I can do anything physical to it**

**Schrödingers'Katze — Today at 06:14**

**the HAT board, UC-512 HAT board**

**IvanG-S — Today at 06:14**

**Image**

**Schrödingers'Katze — Today at 06:15**

**Image**

**okay？**

**Image**

**IvanG-S — Today at 06:16**

**My circuit board does is rev D1**

**Remove all camera cables?**

**Schrödingers'Katze — Today at 06:16**

**nonono**

**remove cam 0 first**

**good**

**IvanG-S — Today at 06:17**

**0 removed**

**Schrödingers'Katze — Today at 06:17**

**remove cam 2**

**IvanG-S — Today at 06:18**

**Done**

**Schrödingers'Katze — Today at 06:18**

**good**

**cam2, not cam1**

**IvanG-S — Today at 06:19**

**OK cam 1 back**

**Schrödingers'Katze — Today at 06:20**

**Image**

**Image**

**count from 0 instead of 1. They are cam0 cam 1 cam2 & cam3**

**IvanG-S — Today at 06:21**

**OK**

**Schrödingers'Katze — Today at 06:21**

**Remove cam0, connect cam1 back, remove cam2**

**IvanG-S — Today at 06:22**

**Done**

**Image**

**It's booted**

**Yeah you need i2c port 6**

**That works instead of 10**

**Schrödingers'Katze — Today at 06:26**

**where did u get this quad kit**

**from Amazon?**

**IvanG-S — Today at 06:27**

**Pi hut**

**Schrödingers'Katze — Today at 06:27**

**do they support return and replacement?**

**IvanG-S — Today at 06:28**

**I imagine so, we can buy another**

**Schrödingers'Katze — Today at 06:29**

**Let's try another way to check it out.**

**Just connect cam0 to the HAT board and remove other three cameras.**

**IvanG-S — Today at 06:31**

**Done**

**If one camera does not work we can survive with 3, as long as focus works**

**Schrödingers'Katze — Today at 06:32**

**Yeah, I'm not sure which specific camera's focus motor is defective.**

**remove cam0 and just conenct cam 1**

**I need the debug process for replacement 🙂**

**IvanG-S — Today at 06:34**

**Done**

**Schrödingers'Katze — Today at 06:34**

**ok**

**same way to cam2**

**go ahead/**

**IvanG-S — Today at 06:36**

**sorry 2 sec, I need to label**

**Schrödingers'Katze — Today at 06:36**

**okay**

**IvanG-S — Today at 06:39**

**ok cam 2 only connected**

**Schrödingers'Katze — Today at 06:39**

**one sec**

**I'll be back in 8mins**

**IvanG-S — Today at 06:40**

**ok**

**no rush**

**Schrödingers'Katze — Today at 06:44**

**ok, it's turn for cam3**

**IvanG-S — Today at 06:44**

**...**

**done**

**Schrödingers'Katze — Today at 06:46**

**oops,**

**no one is lucky**

**I'm not familiar with the warranty of our distributors like Pi Hut**

**IvanG-S — Today at 06:49**

**Done OK we can contact them.**

**Is it likely to be the whole system to replace or one camera**

**Is amazon better for future purchases/support?**

**Schrödingers'Katze — Today at 06:49**

**I suggest the whole kit**

**Schrödingers'Katze — Today at 06:49**

**Yeah!**

**IvanG-S — Today at 06:50**

**OK, do you have any ticketing system or reference number?**

**Schrödingers'Katze — Today at 06:50**

**one sec**

**IvanG-S — Today at 06:50**

**This one camera, can it auto focus or do all 3 need to work?**

**Schrödingers'Katze — Today at 06:50**

**https://www.amazon.com/Arducam-Autofocus-Quad-Camera-Synchronized-Compatible/dp/B09TSGMCM9/ref=sr\_1\_1?crid=3N61LOQV6DJC3&dib=eyJ2IjoiMSJ9.O\_g-62NDeLuri05\_OWk2McDjD0gafP6cBKT62TGniW6-mp8sb6lsJ061bYQpSQwGLQeXwp1qsRLTEqkjO3Ant4dXPL6pWya64orH11SI8Jg.sWXuImJm\_YWXGjEjaS8DV0gpq99av15wLo6nLAnuUE0&dib\_tag=se&keywords=arducam+quad+16mp&qid=1723787441&sprefix=arducam+quad+16m%2Caps%2C310&sr=8-1**

**Arducam 16MP Autofocus Quad-Camera Kit for Raspberry Pi, 16MP IMX51...**

**Arducam 16MP Autofocus Quad-Camera Kit for Raspberry Pi, 16MP IMX519 Autofocus Synchronized Pi Camera, Compatible with Nvidia Jetson Nano/Xavier NX**

**Image**

**Schrödingers'Katze — Today at 06:51**

**could u elaborate on it?**

**IvanG-S — Today at 06:52**

**We don't need camera sync.**

**I will use i2c to switch modes between cameras and take a photo**

**If only 3 cameras work we may be able to handle that for this prototype, as long as the 3 can focus. Even manual focus may be ok**

**Schrödingers'Katze — Today at 06:55**

**Manual focus is also controlled by the focus motor**

**IvanG-S — Today at 06:56**

**Yes**

**Schrödingers'Katze — Today at 06:56**

**The problem is that I can not find out which camera module's focus motor is defective**

**IvanG-S — Today at 06:56**

**OK I can spend time on it, to try and find**

**If I do find out, should I leave that off and put rest in cam 0,1,2**

**Schrödingers'Katze — Today at 06:57**

**Yes.**

**We can connect three cameras to the HAT board and get stream from libcamera command.**

**IvanG-S — Today at 06:58**

**OK I'll try that, in the meantime will contact pi hut and look at another board from amazon or a multiplexer**

**Schrödingers'Katze — Today at 06:58**

**The HAT board should be okay.**

**IvanG-S — Today at 06:58**

**Do you have any support reference number?**

**Schrödingers'Katze — Today at 06:59**

**Do u mean the SKU or other things?**

**IvanG-S — Today at 06:59**

**When I contact pi hut, it would be good to be able to say that I contacted your team**

**And have some kind of proof**

**If you don't have that it's OK.**

**I can still reference Dion from Arducam support if that's correct**

**Schrödingers'Katze — Today at 07:01**

**Ohhhh**

**I'm Dion**

**This Discord nickname is made by my colleague**

**IvanG-S — Today at 07:01**

**😊**

**Thank you for your help, I will go through the cameras again, find out which one(s) don't work and will contact pi hut when they are open**

**Schrödingers'Katze — Today at 07:02**

**okay**

**IvanG-S — Today at 07:03**

**Thank you very much for your time, I am very impressed and greatful**

**Schrödingers'Katze — Today at 07:03**

**My pleasure🥰**

**IvanG-S — Today at 07:03**

**bye for now 👋🏽**

**Schrödingers'Katze — Today at 07:03**

**Bye bye**