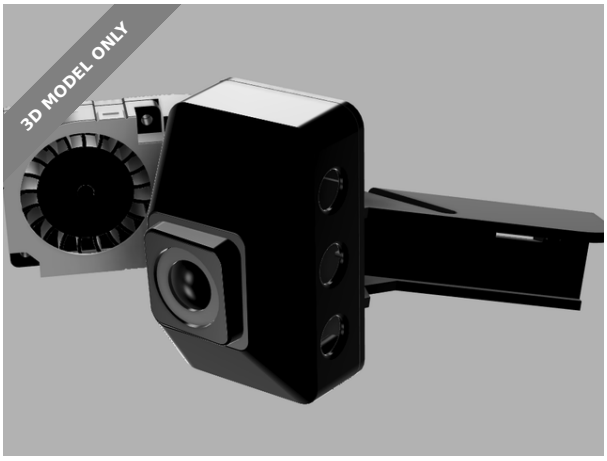

NexGen3D: Creality K1C Camera Fix

NexGen-3D-Printing

VIEW IN BROWSER

updated 15. 7. 2024 | published 15. 7. 2024

Summary

Fix for the built in camera frame rate reduction and freezing during long, or high temperature prints.

3D Printers > Creality Parts & Upgrades

Tags: camera creality k1c

The Creality K1C is not a bad printer, and so far has been a pretty reliable work horse for the money, but unfortunately I, along with others have been experiencing issues with the built camera.

Github discussion link

These issues manifest in low frame rate and usualy end with the camera's MCU locking up, this happens everytime I print high temp materials that require the lid to be in place.

From all my tests, its related to chamber temperature and the camera over heating, so I designed a new front cover that incorperates a little 5v blower fan.

After my initial tests, I'm now seing consistant frame rates and no more lock ups, I have tested for around 24hrs printing PC-CF which gets the printer pretty toasty inside and normaly results in a camera lockup after about 15mins of printing.

Parts Required:

- GDStime 2006 5v Blower Fan

Please dont print this from PLA, PETG should be okay, but I recommend ABS or better, mine was printed in ABS-CF, also, you can screw the blower down with some M2 screws, but its easier to just use a couple of small dabs of Superglue, I used Loctite 406 as this is the best for plastics like ABS.

Wiring is pretty easy, there is two black wires, use the second one in from the edge of the plug for the ground, and use the red wire for the positive and your done.

This remix is based on

Creality K1 AI Camera CAD

by Henlor

Model files

camera-housing.stl

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