



User Guide

UG000457

CMV50000

Replacing Sensor in Critical Link Eval Kit

CMV50000_xxxx_EK

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1 Introduction

This document explains how to replace the image sensor of a CMV50000 Critical Link eval kit. Make sure that every action explained in the document is performed with care and make sure not to damage the sensor or bend the sensor pins. Both mono and color sensors can be used for this guide.

2 Sensor Replacement Procedure

2.1 Opening the Camera

Before opening the camera, make sure power is shut down and all cables are disconnected from the camera module.

On one side of the lens there are 4 torx screws in the corners. Unscrew them carefully.

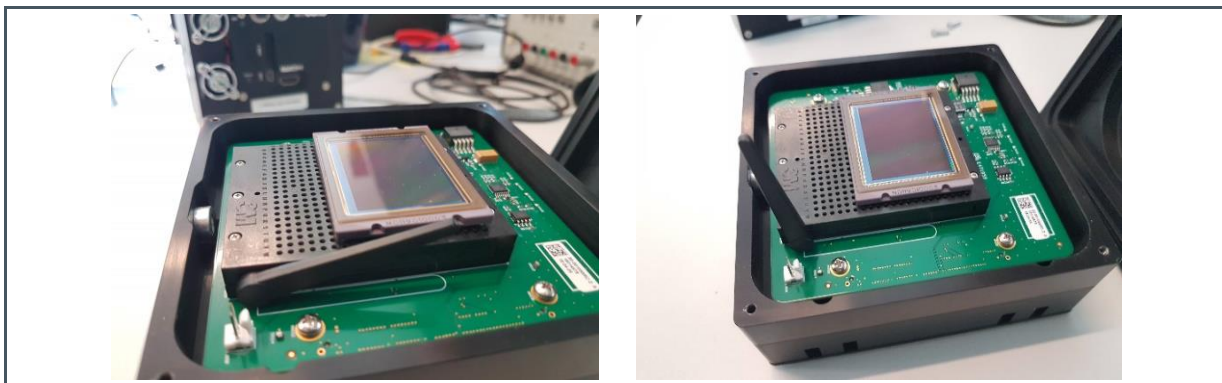
Figure 1:
Front Side of the Camera



2.2 Removing the Sensor from the Socket

There is a lever located next to the socket. Carefully lift the lever as seen on the picture below. To remove the sensor from the socket, lift the sensor in a perfectly upwards motion. Make sure not to bend the sensor pins.

Figure 2:
Lifting the Socket Lever

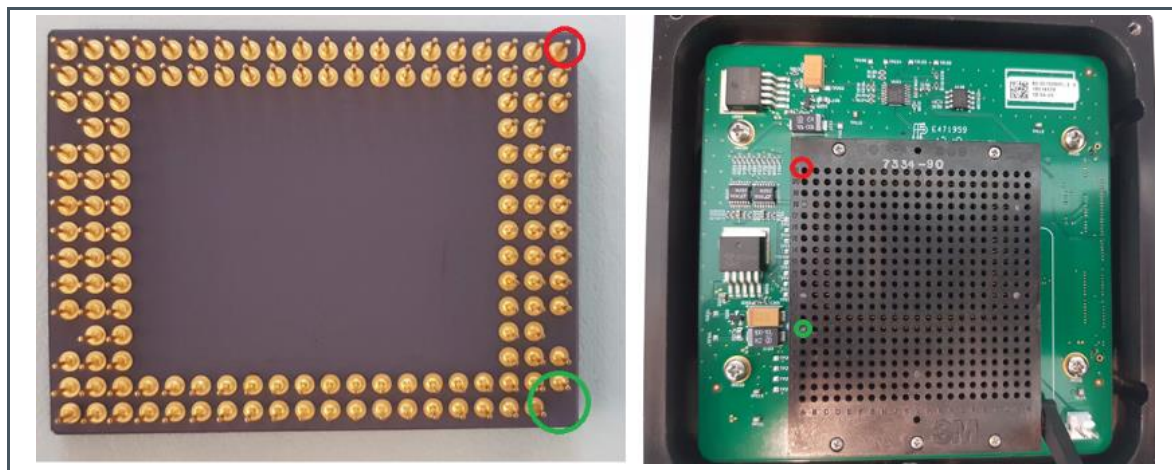


2.3 Inserting a New Sensor

After removing the sensor, a new sensor can be inserted.

It is very important to properly align the correct sensor pins with the socket. On the sensor, in one corner there is a missing pin. Use this pin to align the sensor with the missing hole in the socket, indicated with a green circle.

Figure 3:
Sensor Pins Have to Be Aligned with the Sensor Board

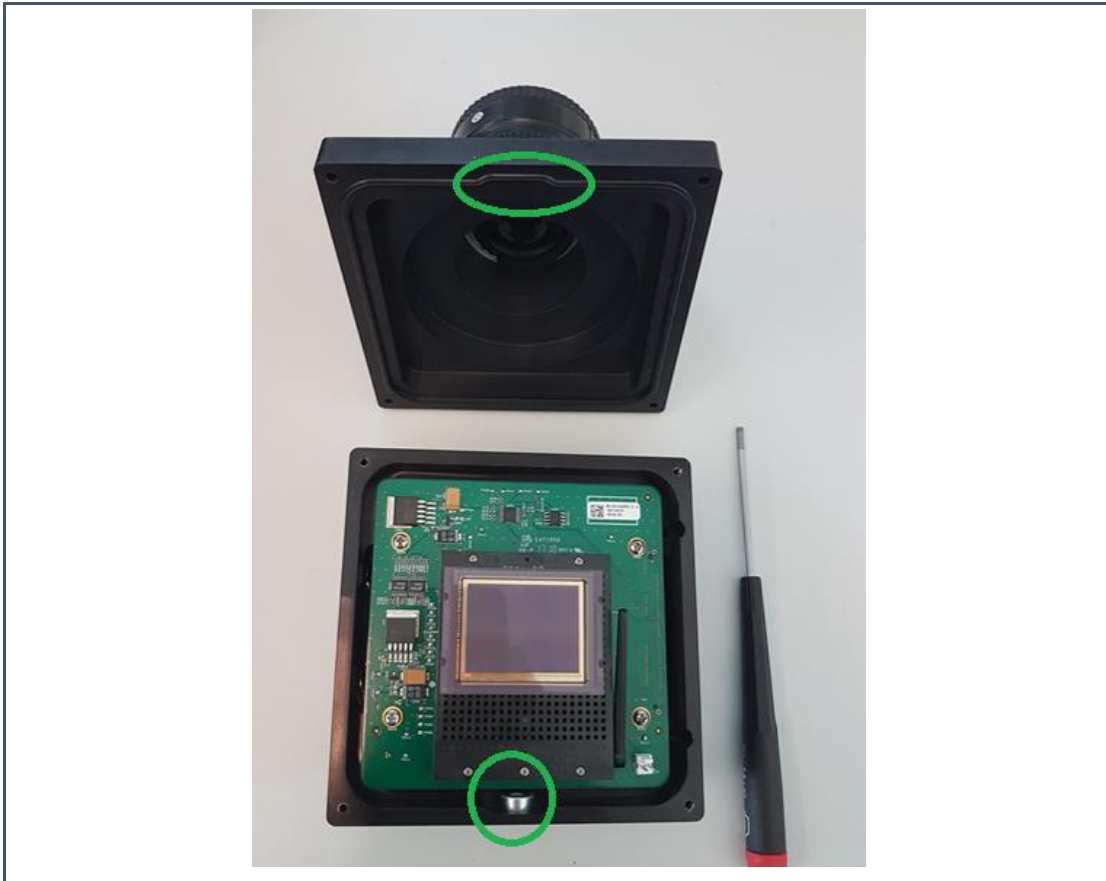


After the insertion of the sensor, the socket lever must be closed again. The action is the reverse of Figure 2.

2.4 Closing the Enclosure

The coverlid is not symmetrical. There is a notch on one side of the lid. Make sure this notch aligns with the screw on the sensor board as seen in Figure 4. Put the lid on the camera board and insert the screws.

Figure 4:
When Closing the Camera Enclosure, Mind the Notch Position



3 Next Steps

After having replaced the sensor, the cables in the back of the camera can be plugged in again. Make sure to insert the power cord, USB adapter and optionally the HDMI cable. Then, turn on the power switch.

In the GenTL Viewer, click file -> close device if a device is still connected. Then, click open device and connect the CMV50000 camera kit again.

Click the play button to start streaming video. In case of a broken or bad looking video signal, make sure to adjust the pixel format.

4 Revision Information

Changes from previous version to current revision v1-00	Page
Initial version	

- Page and figure numbers for the previous version may differ from page and figure numbers in the current revision.
- Correction of typographical errors is not explicitly mentioned.

5 Legal Information

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