

Starting with epc600 Evaluation Kit

- Before setting-up any installation, connect the camera to the main board with the provided cable.
- Make sure that the power supply selection switch is on the USB position. Refer to Figure 11 in the Manual – epc600 Camera Spot.
- The start-up description procedure for the Evaluation Kit is located in the Manual – epc600 Camera Spot, chapter 4 and 5.

epc600/610 Evaluation Kit Limitation and Restriction

- The application part and functionality “Application with PIC10F” is not yet operating. The Main switch must stay in position “Evaluation”.
- The USB Hi-speed interface is not operational (development only).
- The Dip Switch Module “SW1” is not yet used.
- In some rare operating conditions, the Evaluation Board can stop to respond. In such a case, please disconnect it and power it up again. The issue is known and will be fixed in a future release of the firmware.
- For Mac users: The USB Mac driver can hang-up due to insufficient current driving capability. In this case, connect an external supply. If you observe such a behavior with an other operating system platform (e.g. windows), please contact us.

Camera Module Limitation and Restriction

- According to the epc600 datasheet the VDDBS needs to be externally provided. This requirement is missing in the epc600 Camera Spot Manual. In our current Camera Modules most of the other supplies are externally applied to the epc600 but this is not required for the final version of the chip.

epc600 Limitation and Restriction

- LED Modulation frequency is 5 MHz on the current version. The next version is planned to run at 10MHz and not configurable (Factory programmed, as mentioned in the datasheet).
- On the current User Interface version the signal quality is not available. To temporary compensate this lack, the signal amplitude is provided.
- Calibration and Compensation: Distance, Reflectivity, Ambient-light and Temperature Compensation (described in part 1.3.7 of the datasheet) are calculated by the Arm processor on the Evaluation System Hardware.
- The current chip version is not the final one. Therefore, the measured distances have different reliability. Between 1 and 7 meter the compensation is optimal. From 1 meter to 3.5 meter the compensation are valuable for a target reflectivity from 90% down to 5%, from 3.5 meter to 7 meter target reflectivity goes from 90% down to 20%. For distances smaller than 1 meter or bigger than 7 meter, the measured values are not anymore reliable.

Additional Material

- A Camera Spot Holder is part of the Evaluation Kit (illustration 1). You can use the two flat screws to fix the two parts and clip the Camera Spot Inside.



Illustration 1: Camera Spot Holder