



Cable Extension Kit for Raspberry Pi Camera (THSER101) Quick Start Guide

Rev. 1.00

IMPORTANT: PLEASE READ BEFORE USE

Warnings

- This product should only be connected to and powered by a Raspberry Pi computer. Any external power supply used with the Raspberry Pi should comply with relevant regulations and standards applicable in the country of intended use.
- This product should be operated in a well-ventilated environment and should not be covered.
- This product should be placed on a stable, flat, non-conductive surface while it is in use, and it should not be contacted by conductive items.
- Ethernet cable used with this product should be kept at a distance as far as possible from the power cables of any devices to avoid the effects of noise impacting the product performance.
- This product generates, uses and can radiate radio frequency energy. If not installed and used according to this manual the equipment may cause interference with radio and television communications. There is, however, no guarantee that interference will not occur in any particular installation due to site-specific factors.

Instruction for Safe Use

- To avoid malfunction of or damage to your Cable Extension Kit, please observe the following:
- Do not expose it to water, moisture, or place it on a conductive surface whilst in operation.
- Do not expose it to heat from any source; the Cable Extension Kit is designed for reliable operation at temperatures cited in the product data sheet.
- Take care whilst handling to avoid mechanical or electrical damage to the printed circuit board and exposed connectors.
- Use care when handling the Cable Extension Kit to avoid causing damage by electrostatic discharge by avoiding to touch any pins, leads, or circuitry and by being properly grounded.
- Take care not to damage any of the exposed electronics components. These are easily damaged if the unit is dropped, and this is especially the case if a large lens is fitted.

This Cable Extension Kit works between a Raspberry Pi Computer Board 3B+/4B and a Raspberry Pi Camera version 1.3, 2.1 or HQ Camera.

Step 1/2: Validate Your Camera and Computer

1. Connect the Raspberry Pi camera module directly to the Raspberry Computer Board to verify the system works properly.
2. After validating the system works properly, disconnect the camera module and unplug the Computer Board power supply.

Step 2/2: Assemble Cable Extension Kit

1. Use provided Screws to secure 3 Spacers on the Raspberry Pi Computer Board at the locations indicated in the photo.
2. Use Ribbon Cable to connect Rx Board to Computer Board as shown in the photo. Then align Pin Connector on the Rx Board with that on the Computer Board and press the Rx Board all the way down.
3. Use Screws and Nuts to secure the Rx Board.
4. Use Ribbon Cable which is included to Raspberry Pi Camera Module to connect the Camera Module to Tx Board.
5. Use LAN Cable to connect Rx and Tx Boards. **Do not plug Ethernet Cable for LAN to the Rx Board's RJ45. This may damage the Rx Board.**
6. Re-connect Computer Board's power supply. The system is now ready (no further hardware or software setup is required).
7. For Camera Module version 2.1 and HQ Camera, Extension Kit works without any software setting. Run camera operation as if the camera is directly connected to the computer. For Camera Module version 1.3, refer to THSER101 Datasheet for supported modes.

More information is available at

<https://www.thinesolutions.com/cable-extension-kit>

