



[Home](#) » [OSRAM](#) » **OSRAM TCS3448 EVM 14 Channel Multi Spectral Sensor User Guide** 

Contents [[hide](#)]

- [1 OSRAM TCS3448 EVM 14 Channel Multi Spectral Sensor](#)
- [2 Out of the box](#)
- [3 Software installation](#)
- [4 Hardware connection](#)
- [5 Start the application](#)
- [6 Uninstall application](#)
- [7 Revision information](#)
- [8 Legal information](#)
- [9 FAQs](#)
- [10 Documents / Resources](#)
 - [10.1 References](#)

OSRAM

OSRAM TCS3448 EVM 14 Channel Multi Spectral Sensor



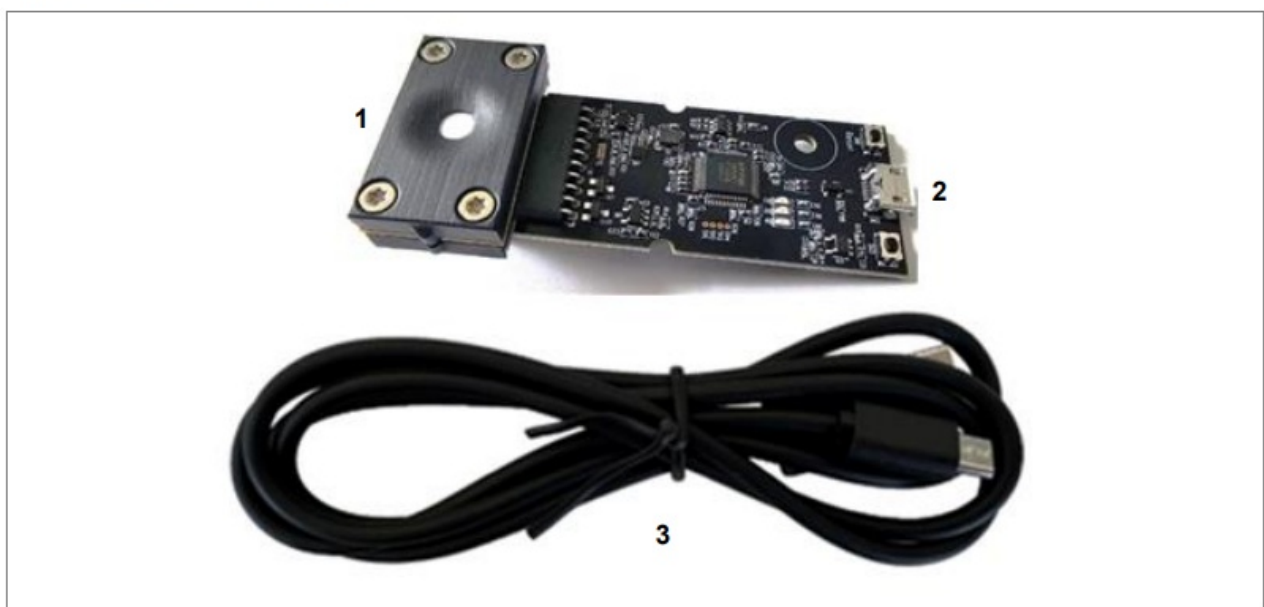
Out of the box

Referring documents

For a detailed description of the TCS3448 EVM, please refer to the TCS3448 User Guide:

- Include the Document Number of the respective User Guide. Each TCS3448 Evaluation kit (EVM) comes with the following components:

Figure 1: Evaluation kit contents



No	Item	Description
1	TCS3448 daughter board with optical stack	PCB with TCS3448 sensor installed.
2	EVM FTDI controller board	Used to communicate from the USB to the I ² C.
3	USB cable (A to USB-C)	Connects EVM controller to the PC.

Software installation

1. Download the latest GUI software installer from the ams-osram.com website.
2. Run the Setup.exe file from the downloaded media.
3. The Setup Wizard will open and guide you through the installation of the TCS3448 host software. For most cases, all the default settings are appropriate.
4. At the end of the installation, click Finish to exit the setup.

Hardware connection

1. Plug the TCS3448 Daughterboard into the FTDI Controller board (Figure 2). Always use ESD procedures when handling the EVM.
2. Using the enclosed USB cable, plug the micro-B connector into the EVM module. With the other end of the cable, plug the USB A-connector into a USB port on the computer. When the USB cable is connected, the green LED should light up, indicating that the USB interface is receiving power, and the controller board processor is running. If the green LED does not light up, check the USB cable connections — unplug the USB cable and try again. If the green LED still does not light up, check the PC for USB error messages.
3. If more than one EVM is connected to the computer, select the correct device from the displayed pop-up window (Figure 3).

Figure 2: TCS3448 EVM (daughter board with optical stack connected to the FTDI controller board)

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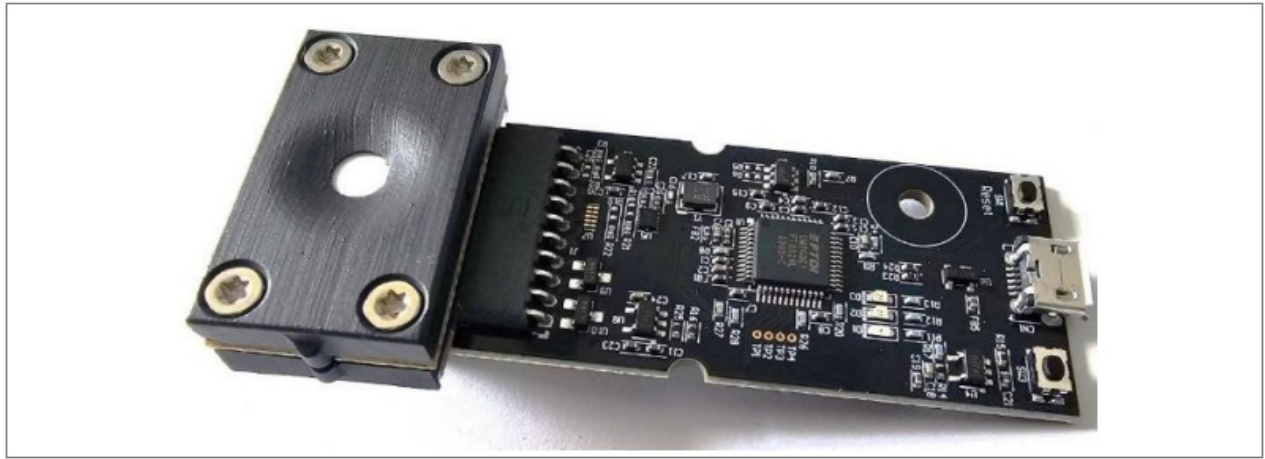
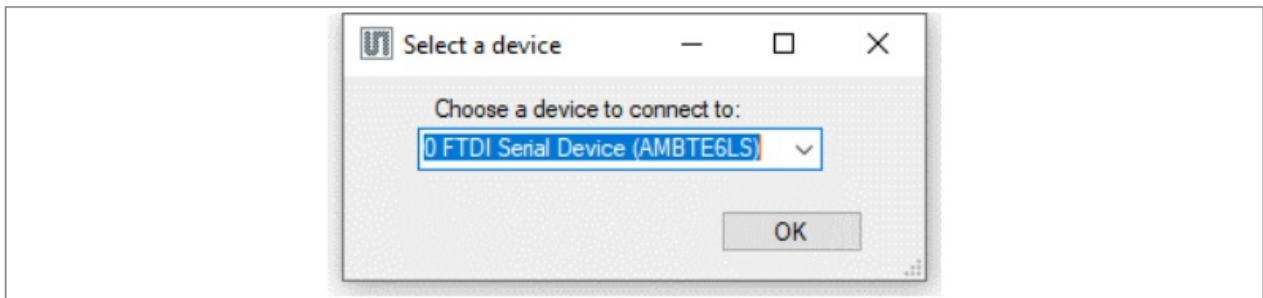


Figure 3: Device selection window for multiple EVM connections



Start the application

To start the application, select “ams-OSRAM > TCS3448 EvalSw ALS” on the All-Programs menu. The default installation directory, depending on the device and the operating system you are using, is:

- C:\Program Files\ams-OSRAM\TCS3448 EvalSw
ALS\TCS3448_EvalSw_Light.exe.exe.exe (Windows 32-bit operating systems)
- C:\Program Files (x86)\ams-OSRAM\TCS3448 EvalSw
ALS\TCS3448_EvalSw_Light.exe (Windows 64-bit operating systems)

The user can select a different install path during installation. When the application starts, the TCS3448 window will open on the PC and automatically connect to the hardware.

The TCS3448 GUI requires initialization files stored in the directory:

- C:\Users\<user>\AppData\Roaming\ams-OSRAM\TCS3448 EvalSw ALS\

Uninstall application

To remove the software from your computer, right-click “ams-OSRAM > TCS3448 EvalSw ALS” and select Uninstall or use the Windows Control Panel.

Revision information

Definitions

Draft / Preliminary: The draft / preliminary status of a document indicates that the content is still under internal review and subject to change without notice. ams-OSRAM AG does not give any warranties as to the accuracy or completeness of information included in a draft / preliminary version of a document, and shall have no liability for the consequences of use of such information.

Changes from previous version to current revision v1-00 Page

- Initial production 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.

Legal information

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FAQs


What should I do if I encounter issues during software installation?

If you encounter issues during software installation, refer to the troubleshooting section in the user manual or contact technical support for assistance.

Can I connect multiple TCS3448 EVMs to one computer?

Yes, you can connect multiple EVMs to one computer. Make sure to select the correct device when prompted.

Documents / Resources

	OSRAM TCS3448 EVM 14 Channel Multi Spectral Sensor [pdf] User Guide TCS3448, TCS3448 EVM 14 Channel Multi Spectral Sensor, EVM 14 Channel Multi Spectral Sensor, Channel Multi Spectral Sensor, Multi Spectral Sensor, Spectral Sensor, Sensor
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References

- [User Manual](#)

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Channel Multi Spectral Sensor, EVM 14 Channel Multi Spectral Sensor, Multi Spectral Sensor, OSRAM, Sensor, Spectral Sensor, TCS3448, TCS3448 EVM 14 Channel Multi Spectral Sensor

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