DVTI + CAM

First Steps

Thank you for purchasing the DVTI+CAM!
This quick start guide will help you to put the device in operation.
Please read also the important product information on the back side.

For more detailed information, please visit the web page: https://dvticam.com
If you have questions or suggestions, please contact us at: info@dvticam.com

Step 1 - Setting up the connections

- Connect the GPS antenna to the camera. Make sure the GPS antenna has a clear view of the sky. (The camera also works without GPS antenna, but then of course it can't record precise timestamps.)
- Connect the camera to the host PC (Windows 10 system) with an USB-C cable. Make sure the cable supports the USB-3 SuperSpeed standard (blue connector).

The camera should appear as a standard UVC device (video camera) in the device manager. You don't need to install driver software, the camera uses the driver provided by the Windows operating system.

Note: There is no separate power supply. The camera gets the power through the USB cable. The connector "GPIO" on the camera is a service port and is not used in regular operations.

Step 2 - Running the control software

- Download the DVTI camera control software from the web page (https://dvticam.com/support) and install it on the computer. A setup program will guide you through the installation process. **If possible, for recording, select a directory on a fast SSD disk, because the camera will stream large amounts of raw image data with a high transfer rate.**
- If the camera is connected and the control software is running, you should be able to connect to the camera (menu "camera", entry "DVTI-CAM") and start streaming (menu "camera", entry "start streaming"). The image from the camera should appear in the preview window.
- Configure the parameters of the camera such as resolution, exposure time, gain etc. with the controls in the control software.
- You can start and stop recording ADV, SER and FITS in the menus.

Important: Make sure that as few other programs and processes as possible are running and accessing the hard disk while the recording is running, so that as much processing power as possible is available for the control software. Otherwise, frames may be lost in the recording.

Step 3 - OccultWatcher integration

- Download the OccultWatcher plugin from web page (https://dvticam.com/support) and place it in the OccultWatcher program directory.
- After restarting OccultWatcher, you should have a new menu entry if you right-click on an event, which is called "Forward event to DVTI control tool".
- If the camera control software is running and the events window is open, the events that you forward from OccultWatcher will be imported in the control software. The information from the events can be used, among other things, to automatically start and stop the recording and to pre-fill the European observation report.

If you have any questions, please feel free to contact us at info@dvticam.com or ask the question on the user forum (https://groups.io/g/d-vti-cam/messages).

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Important Notes

Thank you for purchasing the DVTI+CAM!
Please read carefully the information provided on this page.
To get started with the camera, follow the quick start instructions on the back side.

Securely mounting the camera
When installing the camera on the telescope, make sure that the camera is properly fixed and can't slip out of the focuser. If the camera isn' properly mounted and falls into the telescope or on the floor, it may break itself or damage the telescope.

FCC Compliance
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received. This includes interference that may cause undesired operation.

EU Compliance (CE)
Schweizer Technik Manufaktur GmbH hereby declares that this device is in compliance with Directive 2014/53/EU. A copy of the EU Declaration of Conformity can be downloaded from the website at www.dvticam.com/compliance.

Frequency Bands
This equipment contains a satellite receiver module for GPS, GLONASS, Galileo and BeiDou satellites, operating in the frequency range from 1561.098 MHz to 1609.3125 MHz. This equipment contains no radio transmitter.

Notes on Disposal and Recycling

The symbol shown on the left indicates that this product must be disposed of separately from household waste. When disposing of this product, be sure to comply with environmental regulations. If you wish to dispose of the product, you can return it to us. We will cover the cost of the return shipment. To do so, please contact us at info@dvticam.com.

Software License Agreement
By using this device, you agree to the software license terms of Schweizer Technik Manufaktur GmbH and third-party providers. You can find these terms at www.dvticam.com/sla.

Return
If you are not satisfied with the device, you can return it within 14 days from the date of purchase for a refund. To do so, please contact us at info@dvticam.com.

Warranty
Damage to the device not caused by normal use is covered by a manufacturer's warranty for 24 months from the date of purchase. Contact us at info@dvticam.com.