

metavision_viewer Quick Start Guide

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How to Start

- ◆ Connect the SilkyEvCam to your computer with a USB cable, and launch metavision_viewer.exe from the application menu.

[START] - [CenturyArks] - [Metavision Viewer]

First, the Command Prompt will open, and then the event camera will start streaming.

(Turn the focus ring on the lens to adjust the focus as needed.)

- ◆ Press q key on your keyboard to close metavision_viewer.

The Command Prompt will remain open. (If you just want to run the image streaming, you can close the Command Prompt and you're done.)

- ◆ If you launch metavision_viewer from the command prompt with startup options, you can load bias file, playback recorded data, specify ROI (regions of interest), and more.

For example, if you enter the following command in the Command Prompt open from the previous step, ROI will be specified.

```
"C:\Program Files\CenturyArks\bin\metavision_viewer" -r 200 200 100 100
```

- ◆ To playback a recorded data, run the following command in the Command Prompt. (Recording instructions are provided later.) (Run this command in the folder where the recorded data are located. "data.raw" is the default recording filename.)

```
"C:\Program Files\CenturyArks\bin\metavision_viewer" -i data.raw
```

For startup options, please refer to the next page.

【For reference】 PROPHESEE's website about metavision_viewer

[Metavision Viewer — Metavision SDK Docs 5.2.0 documentation](#)

Startup Options

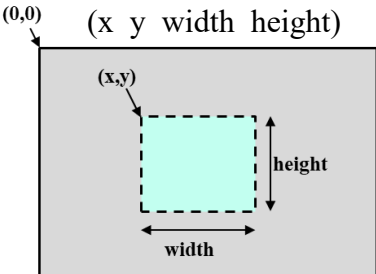
Display help (this screen)
 Specifying camera serial number
 Playback recorded data

Specifying the bias configuration file

Specifying the output recording file name
 "data.raw" as default

```
C:\Users\ss04829>metavision_viewer -h
Simple viewer to stream events from a file or device, using the SDK driver API.

Options:
-h [ --help ]                Produce help message.
-s [ --serial ] arg          Serial ID of the camera. This flag is
                             incompatible with flag '--input-file'.
-i [ --input-file ] arg      Path to input file. If not specified,
                             the camera live stream is used.
--input-camera-config arg    Path to a file containing camera config
                             settings to restore a camera state.
                             Only works for live cameras.
-b [ --biases ] arg          Path to a biases file. If not
                             specified, the camera will be
                             configured with the default biases.
-o [ --output-file ] arg (=data.raw) Path to an output file used for data
                             recording. Default value is 'data.raw'.
                             It also works when reading data from a
                             file.
--output-camera-config arg (=settings.json) Path to a file that will contain the
                             camera state. Default value is
                             'settings.json'. Only works for live
                             camera.
-r [ --roi ] arg             Hardware ROI to set on the sensor in
                             the format [x y width height].
```



ROI

bias configuration file format (Change the value on the left.)

【bias configuration file】
 When you record using metavision_viewer, the following two files are created.
 data.raw (recorded data)
 data.bias (bias configuration file used during recording)

If you want to load the bias configuration file using startup option, please edit and use this file.

```
0 % bias_diff
0 % bias_diff_off
0 % bias_diff_on
0 % bias_fo
0 % bias_hpf
0 % bias_refr
```

For SilkyEvCam HD/HD Lite, all default values are zero (relative settings).
 For SilkyEvCam VGA, the default value is an absolute value.

Key options while viewer running

When you launch metavision_viewer, the “Key Options” will be displayed on the command prompt.

```
Simple viewer to stream events from an event file or a device, using the SDK driver API.  
Define a region using the cursor (click and drag) to set a Region of Interest (ROI)  
Press SPACE key while running to record or stop recording raw data  
Press 'q' or Escape key to leave the program.  
Press 'o' to toggle the on screen display.  
Press 'l' to load the camera settings from the input camera config file.  
Press 's' to save the camera settings to the output camera config file.  
Press 'r' to toggle the hardware ROI mode (window mode or lines mode, default: window mode).  
Press 'R' to toggle the ROI/RONI mode.  
Press 'e' to toggle the ERC module (if available).  
Press '+' to increase the ERC threshold (if available).  
Press '-' to decrease the ERC threshold (if available).  
Press 'h' to print this help.
```

For example, the second line **[Define a region using the cursor (click and drag) to set a Region of Interest (ROI)]**

On the Viewer screen (the screen displaying the real-time video), click and drag the mouse then release to apply an ROI to that area; only event data within that area will be displayed.

For example, the third line **[Press SPACE key while running to record or stop recording raw data]**

When the Viewer window is active, pressing the Space bar on your keyboard starts recording, and pressing it again stops recording.

Recorded data is saved in the SilkyEvCam folder located in your Home folder. The file name is "data.raw" as default.

The “data.raw” file will be overwritten the next time you record. If you want to keep it, please rename the file beforehand.

Pressing the q key (see the fourth line) will quit metavision_viewer.