**v2e Parameters**

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| Parameter | USEFUL | v2e docs | Notes |
| -h; --help |  | Show this help message and exit. |  |
| -o <OUTPUT\_FOLDER>;  --output\_folder <OUTPUT\_FOLDER> | **VERY** | Folder to store outputs. |  |
| --avi\_frame\_rate <AVI\_FRAME\_RATE> |  | Frame rate of output AVI video files; only affects playback rate. |  |
| --output\_in\_place [OUTPUT\_IN\_PLACE] |  | Store output files in the same folder as source video (in same folder as frames if using folder of frames). |  |
| --overwrite |  | Overwrites files in existing folder (checks existence of non-empty output\_folder). |  |
| --unique\_output\_folder [UNIQUE\_OUTPUT\_FOLDER] |  | If specifying –output-folder, makes unique output folder based on output\_folder, e.g. output1 (if non-empty output\_folder already exists) |  |
| --auto\_timestamp\_resolution [AUTO\_TIMESTAMP\_RESOLUTION] |  |  |  |
| --timestamp\_resolution <TIMESTAMP RESOLUTION> |  |  |  |
| --dvs\_params <DVS\_PARAMS> | **CRITICAL PARAM** | Easy optional setting of parameters for DVS model: None, 'clean', 'noisy'; 'clean' turns off noise, sets unlimited bandwidth and makes threshold variation. small. 'noisy' sets limited bandwidth and adds leak, events, and shot noise. This option by default will disable user set DVS parameters. To use custom DVS parameters, use None here. | Two presets so that you can ignore the next few params. If you want more control, input NONE. |
| --pos\_thres <POS\_THRES> |  |  | All these parameters give you fine tuned control over the simulator. Very well and good if you want it. There is even more control available by looking at the [README.md](https://github.com/SensorsINI/v2e/tree/b7f502793cb04186c6a1f97b0c8790f132add287) |
| --neg\_thres <NEG\_THRES> |  |  |
| --sigma\_thres <SIGMA\_THRES> |  |  |
| --cutoff\_hz <CUTOFF\_HZ> |  |  |
| --leak\_rate\_hz <LEAK\_RATE\_HZ> |  |  |
| --noise\_rate\_cov\_decades <NOISE\_RATE\_COV\_DECADES> |  |  |
| --refractory\_period <REFRACTORY\_PERIOD> |  |  |
| --dvs\_emulator\_seed <DVS\_EMULATOR\_SEED> |  |  |
| --show\_dvs\_model\_state <SHOW\_DVS\_MODEL\_STATE> [SHOW\_DVS\_MODEL\_STATE] |  |  |
| --save\_dvs\_model\_state |  |  |
| --output\_height <OUTPUT\_HEIGHT> |  |  | All these parameters control the size of output video. If you select the third option, it overrides the first two |
| --output\_width <OUTPUT\_WIDTH> |  |  |
| --dvs128 |--dvs240 |---dvs346 |--dvs640 |--dvs1024 |  |  |
| --disable\_slomo |  |  | Controls slomo interpolation if you want it. Skip for now. |
| --slomo\_model <SLOMO\_MODEL> |  |  |
| --batch\_size <BATCH\_SIZE> |  |  |
| --vid\_orig <VID\_ORIG> |  |  |
| --vid\_slomo <VID\_SLOMO> |  |  |
| --slomo\_stats\_plot |  |  |
| -i <INPUT> | **VERY** |  |  |
| --input\_frame\_rate <INPUT\_FRAME\_RATE> |  |  | Overrides metadata of the video if you want. Overrides input\_slomotion\_factor |
| --input\_slowmotion\_factor <INPUT\_SLOWMOTION\_FACTOR> |  |  |  |
| --start\_time <START\_TIME> |  |  |  |
| --stop\_time <STOP\_TIME> |  |  |  |
| --crop <CROP> |  |  |  |
| --hdr |  |  |  |
| --synthetic\_input <SYNTHETIC\_INPUT> |  |  |  |
| --dvs\_exposure <DVS\_EXPOSURE> [DVS\_EXPOSURE] | **CRITICAL PARAM** |  | Several modes. If using duration mode, set to 1/fps to make sure that it outputs at the right fps. MORE EXPLORATION REQUIRED |
| --dvs\_vid <DVS\_VID> |  |  |  |
| --dvs\_vid\_full\_scale <DVS\_VID\_FULL\_SCALE> |  |  |  |
| --skip\_video\_output |  |  |  |
| --no\_preview |  |  |  |
| --ddd\_output |  |  |  |
| --dvs\_h5 <DVS\_H5> |  |  |  |
| --dvs\_aedat2 <DVS\_AEDAT2> |  |  |  |
| --dvs\_test <DVS\_TEXT> |  |  |  |
| --cs\_lambda\_pixels <CS\_LAMBDA\_PIXELS> |  |  |  |
| --cs\_tau\_p\_ms <CS\_TAU\_P\_MS> |  |  |  |
| --scidvs |  |  |  |

A screenshot of a computer program

Description automatically generated