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# Biztonsagi kamera:
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Security camera with motion detection and tracking.

Dependencies:

- Python 3.9.7
- OpenCV-Python
- Numpy
- Matplotlib.Pyplot
- Argparse
- os
- sys

Modules:

- `main.py`
 - The software can be started with the `main.py` file, that takes additional arguments.
- `kamera.py`
 - The module can open videos or live camera feed, with the given source path.
- `bgsb.py`
 - This module uses background subtraction to show motion.
- `occipation.py`
 - This module helps with detecting motion.
- `track_motion.py`
 - This module tracks the detected motion.
- `track_motion2.py`
 - Implements motion tracking another way. And its more stable.

User guide:

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usage: main.py [-h] [--input INPUT] [--bsAlgo BSALGO] [--sensAlgo SENSALGO]

Security Camera with motion detection.(quit with 'q')

optional arguments:

- h, --help show this help message and exit
- input INPUT path to the video source (webcam is default).
- bsAlgo BSALGO Choose the background subtraction algorythm MOG2 or KKN
- sensAlgo SENSALGO Choose what type of motion detection to use: tm or tm2. tm is for less populated areas, tm2 is more stable

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