Intelligent systems

The experiment:

The purpose of this experiment is to record live video surveillance with the use of multiple recordings. The expected results will be multiple videos from a webcam that will be approximately 1-2 seconds long and will result in between 2 and 5 video recordings from the webcam focus. To make sure that it has been saved, each save will also print in the command window the video outputs name. each name will be different with the use of the date and time of recording. Some algorithms that may be needed are based around video writer and video reader with parameters aimed towards variables like fps, quality.

Result Analysis:

Running through the tests the code seems to save five 2 second videos within the file under the name “Output Video” with the date and time following on(please look at reference 01, and 02). When looking at the video, each one is slightly different from the recording both before and after itself.

Conclusion and future work:

The conclusion of this test is very successful for the testing phase of this project. With the looping being between 0-4, whatever the number is within the variable ‘vidsperday’ will determine how many recordings are made (please look at reference 03).

For future purposes/project pushing, there has been a normal 24h mode and a mode that can be used to debug (please look at reference 03). If for whatever reason, the number of videos or time frame of said videos needs to change, the change can be made simply with the change of code.

Reference table:

|  |  |  |
| --- | --- | --- |
| Reference no. | Evidence  Reference link / images | notes |
| 01 |  |  |
| 02 |  |  |
| 03 |  |  |
| 04 |  |  |
| 05 | <https://stackoverflow.com/questions/1637589/how-do-i-record-video-from-a-webcam-in-matlab> | Used as reference for code |
| 06 | <https://uk.mathworks.com/matlabcentral/answers/339241-hello-i-m-using-matlab-2015-i-use-videowriter-to-record-a-video-with-my-webcam> | Used as reference for code |
| 07 | <https://uk.mathworks.com/matlabcentral/> | Used to find ways to make the code to work and to learn what certain parts do. |