



SECURITY AND SURVEILLANCE DRONE

This is a user manual to navigate and work around and operate the web console.

Security

This section is where you can upload the video feed recorded from the drone and run the Haar Cascade facial recognition algorithm to find a specific match from your stored dataset.

- 1.To use this function the user has to upload the video file.
- 2.Specify outfit file name (report name) in “Output Filename”.
- 3.Enter Email ID to which user wants to send the report in “Mail to send Report”.
- 4.Then click on “Submit”.

This will send a report to Email ID mentioned and provides an option to save it to the cloud using “Save to Cloud” button or local directory using “Save to Disc” button.

This also navigates user to 2 options :

ExistingRecord

This opens up the list of all the trained dataset of individuals with the Machine Learning Model is trained with. Users can navigate and view details of the profile cards.

NewRecord

This opens up an option to train Machine Learning Model with new Dataset and store it.

It revolves around taking multiple images of the subject which help in better recognition of overall recognition algorithms.

- 1.Enter user details as prompted.
- 2.Look at the camera and stay in the visible screen (100 images captured for training).

Surveillance

This section is where you can upload the video feed recorded from the drone and run the YOLO object detection algorithm.

- 1.To use this function user has to upload the video file.
- 2.Specify outfit file name (report name) in “Output Filename”.
- 3.Enter Email ID to which user wants to send the report in “Mail to send Report”.
- 4.Then click on submit.

This will send a report to Email ID mentioned and also provides an option to save it to the cloud using “Save to Cloud” button or local directory using “Save to Disc” button.

Settings

This page allows user to do operations on drone through User Interface:

User can click on individual button for all 4 motor to spin M1, M2, M3, M4 OR Can directly click on “Spin All” button to spin all the motors at the same time.

There is also an option to move drone in particular direction using button controls provide; just click on desired movement of direction and Web Console takes care of the rest using MSP Protocol.

About Us

About us provides information on team members of Security and Surveillance Drone Project.

To Get in Touch a user can directly enter their Name, Email and Message and Message will directly be forwarded to all Team Members using AWS DynamoDB.