Synopsis

We are releasing 45 video clips recorded by Unmanned Aerial Vehicles (UAVs) during the the MEVA data collection. The 45 clips total approximately 4.6 hours / 26GB. These clips temporally overlap with the ground camera data already released on mevadata.org.

The data

We flew two DJI Inspire-1 v2 drones during the collect. Each drone was equipped with a Zenmuse X3 camera; the video streams were recorded as 3840x2160 @ 30fps H264 videos. The cameras focus generally on the central parking area, bus station, and school entrances; they were not instructed to follow any individual or vehicle in particular.

The clips vary in length from 2 to 662 seconds long, with mean and median durations of 373 and 366 seconds, respectively.

The video as taken directly from the drone has been additionally compressed to save space. We used the following ffmpeg command:

```
ffmpeg -i original-clip.mp4 -crf 26 final-clip.mp4
```

See here for information about the crf option. We experimented with various compression levels and found that a value of 26 provided about 3.7x compression without visibly affecting quality.

Location

The videos are available at
`s3://mevadata-public-01/uav-drop-01/meva-uav-drop-01.tar` .

Checksum

```
9cf7653e993c2c417f278a14efe4cd8b  meva-uav-drop-01.tar
```

License

These videos are covered under the same CC-BY-4.0 license as the MEVA ground cameras.

POC

mevadata@kitware.com.

Changelog

6 Nov 2019: initial release