

EPIC 2020

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The document outlines the GoPro settings for EPIC Kitchens 2020 data collection.

The participant should have signed the attached **consent form**, before recording.

We assume the data collector has already explained to the participant the aim of the dataset and all the practical issues involved in the data collection, i.e.:

- record kitchen activities for at least **two** days (all kind of activities, except eating, watching tv or other long-run non goal-oriented activities)
- be alone while recording
- narrate the videos after data collection

The data collector should hand the participant a fully charged GoPRO **HERO 7** with an empty SD-Card, a head strap mount and a USB-C cable. Currently we have 64gb cards which correspond to roughly 4 hours of recording with the used video settings. The USB-C cable should be used solely to charge the camera, i.e. participant should not copy/move the files from the SD-card. Note that the GoPRO discharges fairly quickly, so participants should be warned to make sure the camera is fully charged every day. It is advised to **remove the battery while not filming** as it will discharge even while the GoPro is turned off.

The data collector should then instruct the participant how to operate the GoPRO, i.e. how to:

- open/close the protective case to take the camera off and put it back in (required to charge the battery)
- charge the battery (i.e. locate and open the USB-C port lid, which some people find hard to do)
- wear and adjust the head strap
- turn the camera off and on
 - **Very importantly**, the collector should warn the participant that the same power button changes the camera mode as well. This may result in the participant not recording a video but rather shooting a time-lapse, or a single picture, etc. To turn the GoPro off this button must be held down. We need the participant to double check the camera mode is set to video every time he/she starts to record a new video.
- start and stop a recording. **Filming should be initiated by the button on the top of the GoPro**, not the mobile app.
- view and delete recorded videos

The data collector should also warn the participant that the camera has a touch screen. The main video settings (i.e. frame per seconds, field of view and video resolution) can be changed directly from the live view, and it may happen that these are inadvertently changed while putting the camera on. Thus, we need the participant to check the camera has the following settings every time he/she starts to record a new video.

- Aspect Ratio: 16:9
- Resolution: 1080
- **Frames Per Second: 50fps**
- Field Of View: Linear
- **Low light: OFF**

- **Video Stabilization: ON**
- Video Format: PAL
- Landscape Lock: UP

Note: the settings below in bold have changed since the original EPIC Kitchens dataset collection.

At this point, the data collector should ask the participant to download the GoPRO app on his/her smartphone ([Android Link](#), [iPhone link](#)). The app is needed to live stream the camera and adjust the viewpoint accordingly. The participant is required to check the viewpoint via the app every time he/she starts to record a new video. The participant should **check that actions are centered in view when acted over a countertop**.

Note for iPhone users: iOS won't connect to the camera hotspot if 3/4G data connection is enabled (given that the wifi has no internet connection the phone will ignore the camera wifi and use the 3/4G). iPhone users need thus to disable 3/4G data before using the app.

Note: Issues with disconnecting have also occurred with other operating systems. Make sure the wifi is connected to the GoPro. Re-establishing a new connection to the GoPro app is sometimes required.

Once the participant has completed his/her recordings, he/she should return the camera, the head strap and the USB-C cable to the data collector.

Finally, the data collector should upload the videos to be shared with the Bristol team. **Keep the raw data until you receive a confirmation from Bristol that the data has been successfully received.**