

Collecting Images for Mapillary

Using GoPro Max

--Andi Muhlis



Items to prepare

GoPro Max Camera + data storage

Camera Pole

Powerbank

Power cable (Type C) for camera

Power cable for phone(s)

Camera base (optional)

Handphone(s) for camera control and navigation

GoPro Max



Camera pole

- Or selfie stick



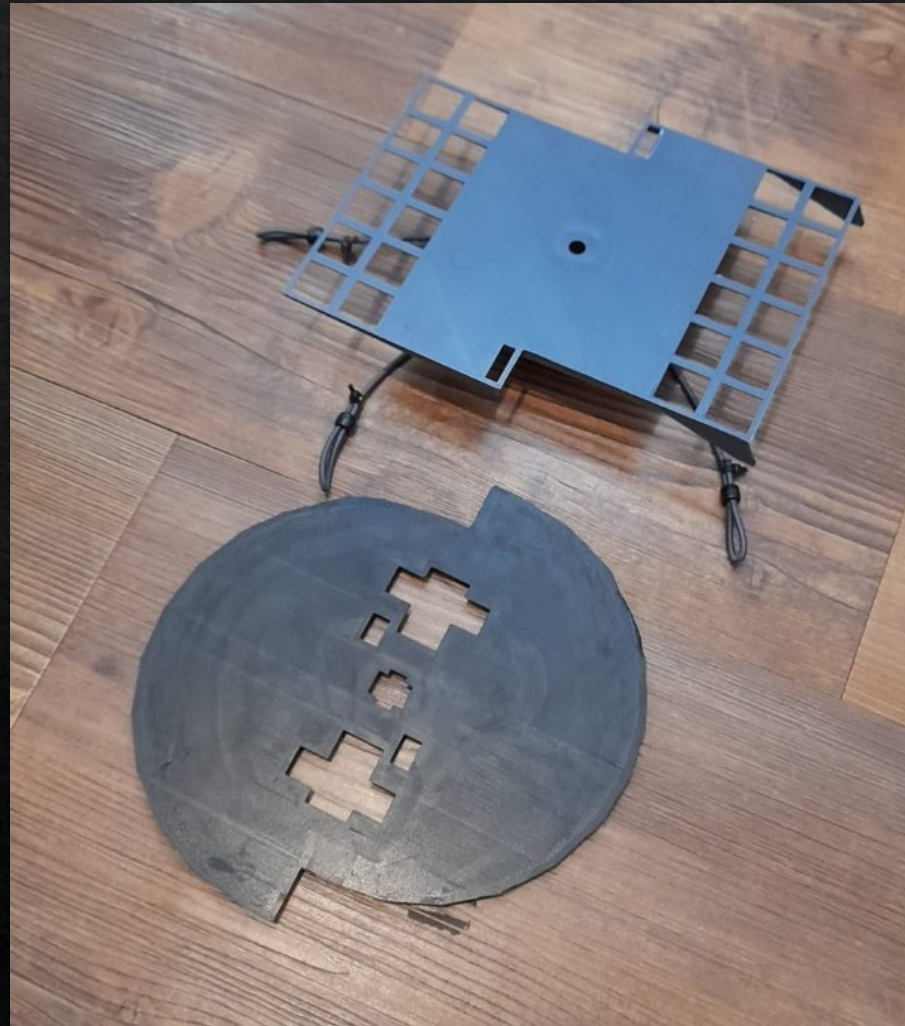
Powerbank



USB Type C power cable



Camera Base



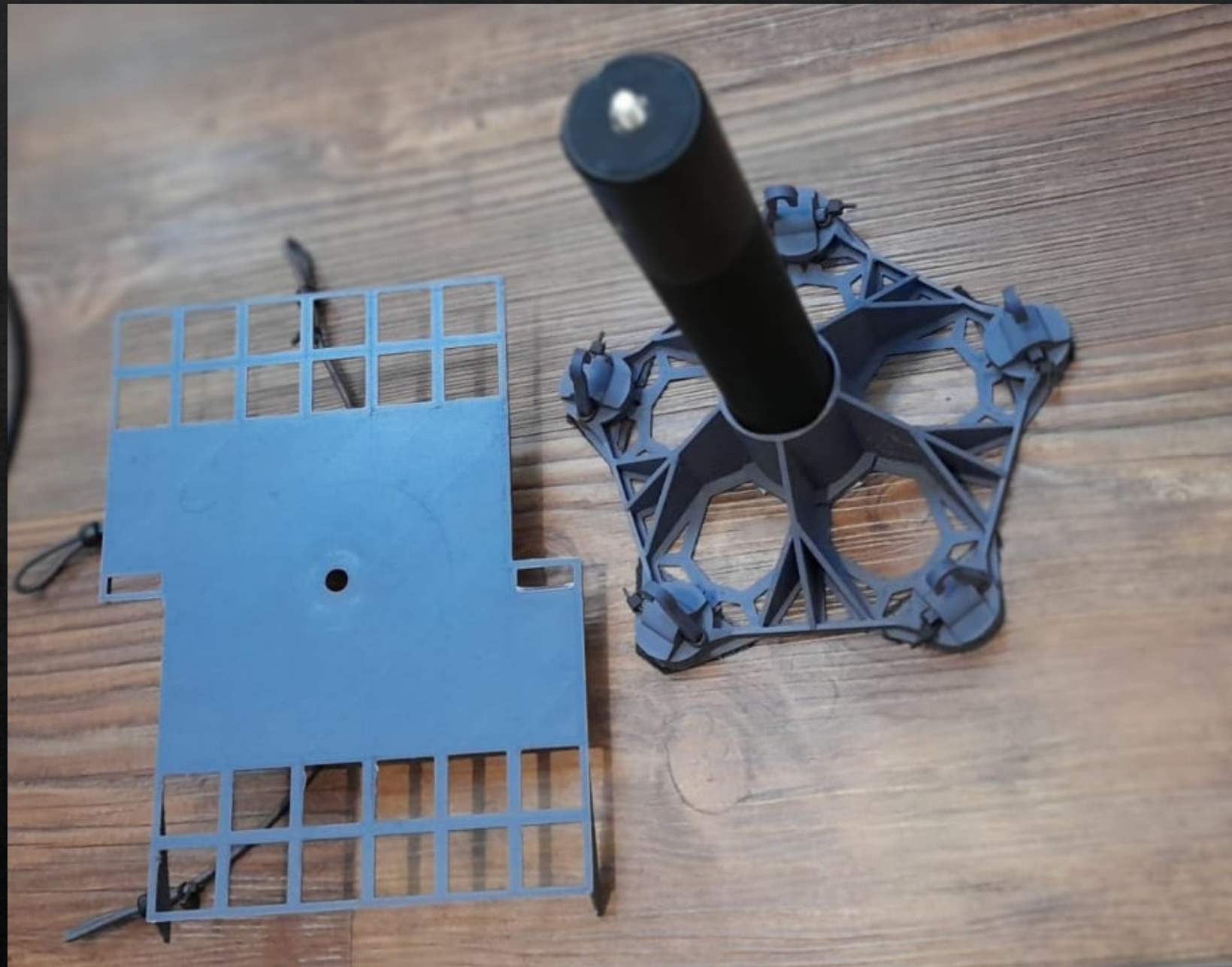
Setup Options

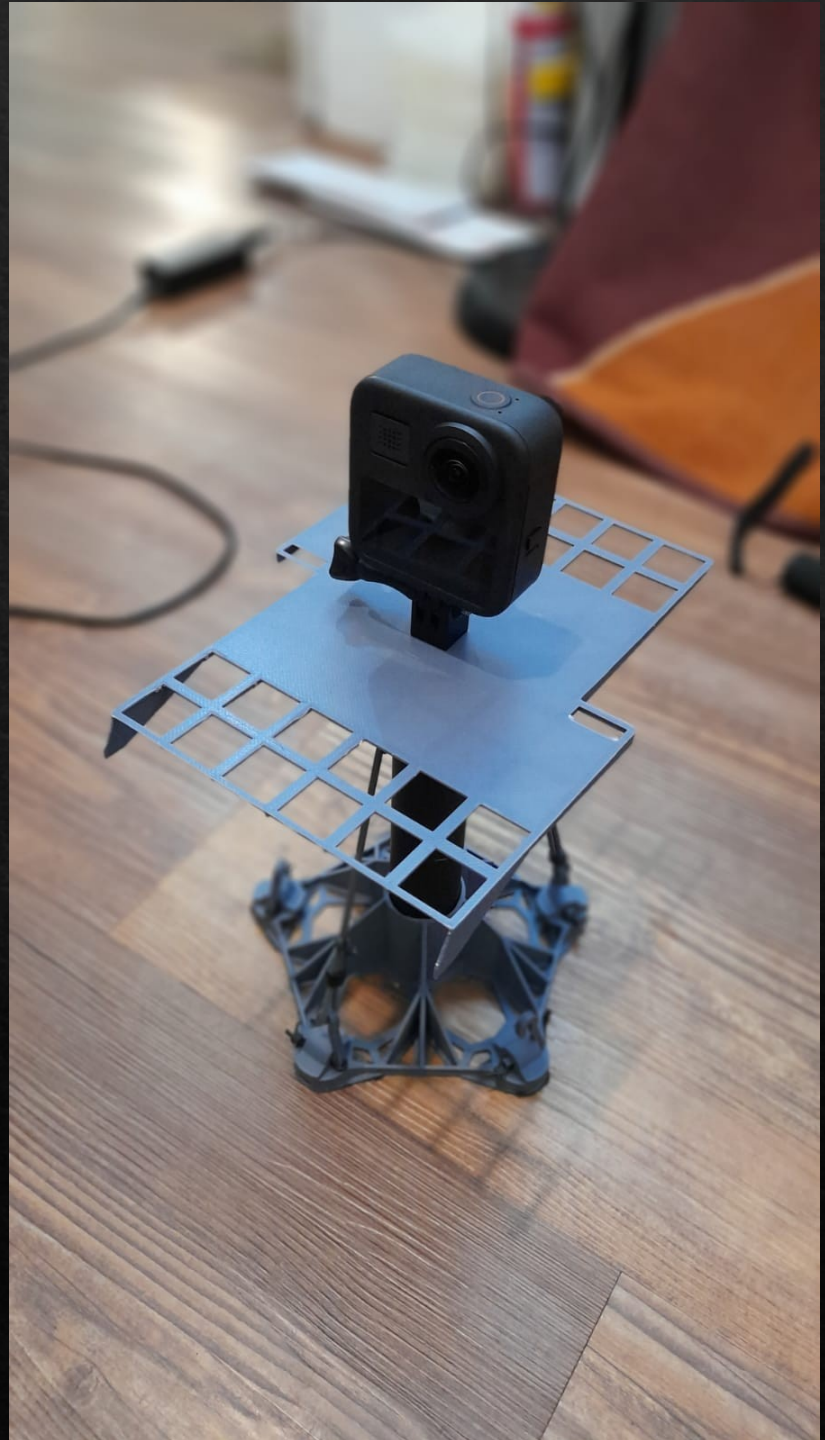
- Car setup
- Motorbike setup

Car Setup

- Pole base for pole or for powerbank











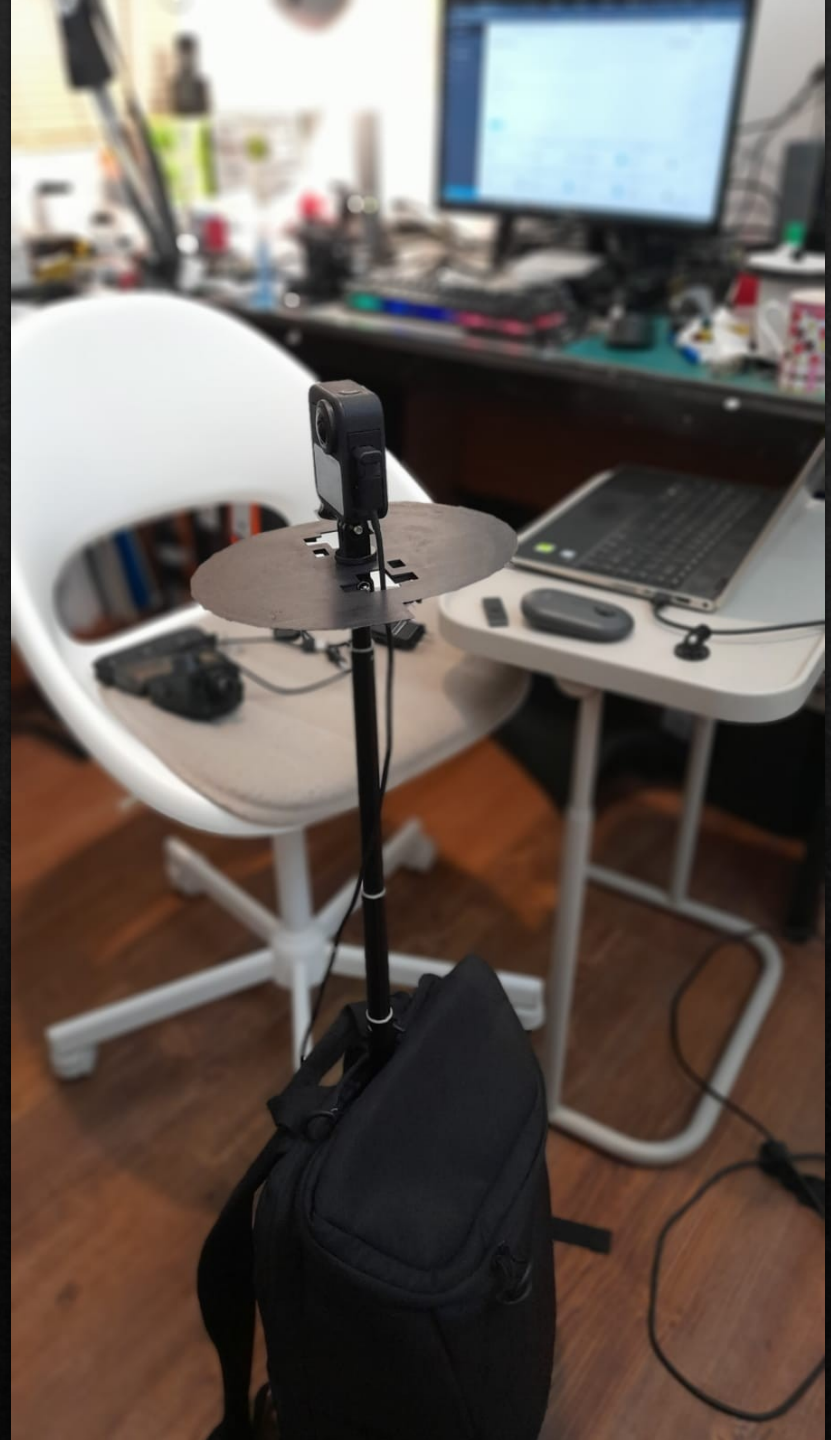


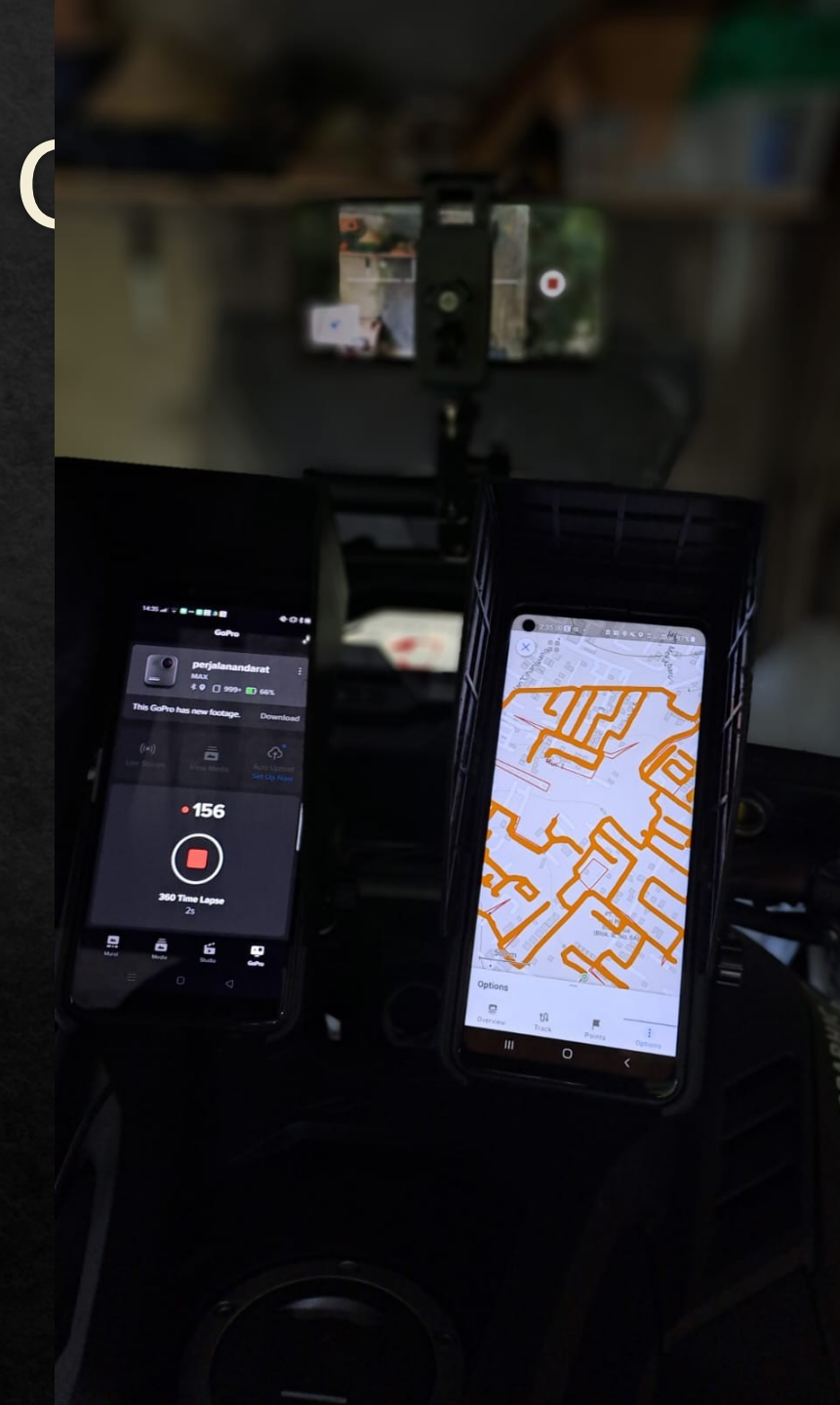


Motorbike Setup









Plann

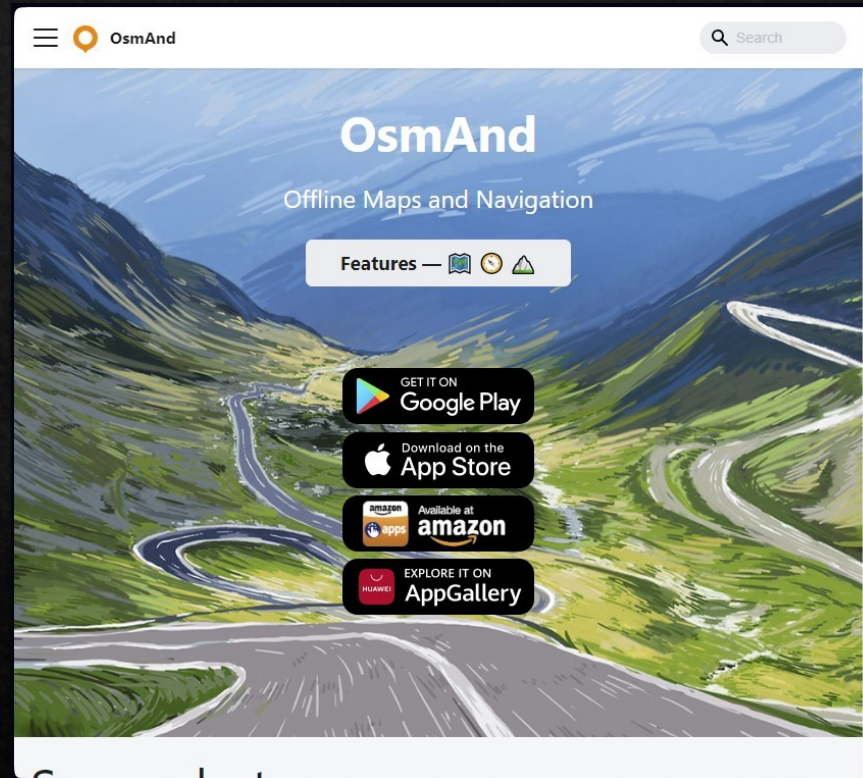
- Plan the survey route using <https://gpx.studio>
- Export the gpx file and send it (via email) to the phone for navigation

The screenshot displays the gpx.studio web application. The interface includes a navigation bar with options like 'Load GPX', 'New GPX', 'Export', 'Clear all', 'Help', 'About', and 'Donate'. A settings panel is open, showing 'Activity' set to 'Motorcycle', 'Routing (follow roads)' checked, and 'Time data management' options for 'Preserve the average speed' and 'Preserve the original timestamps'. The main map area shows a blue route overlaid on a street map. Below the map is a summary table with the following data:

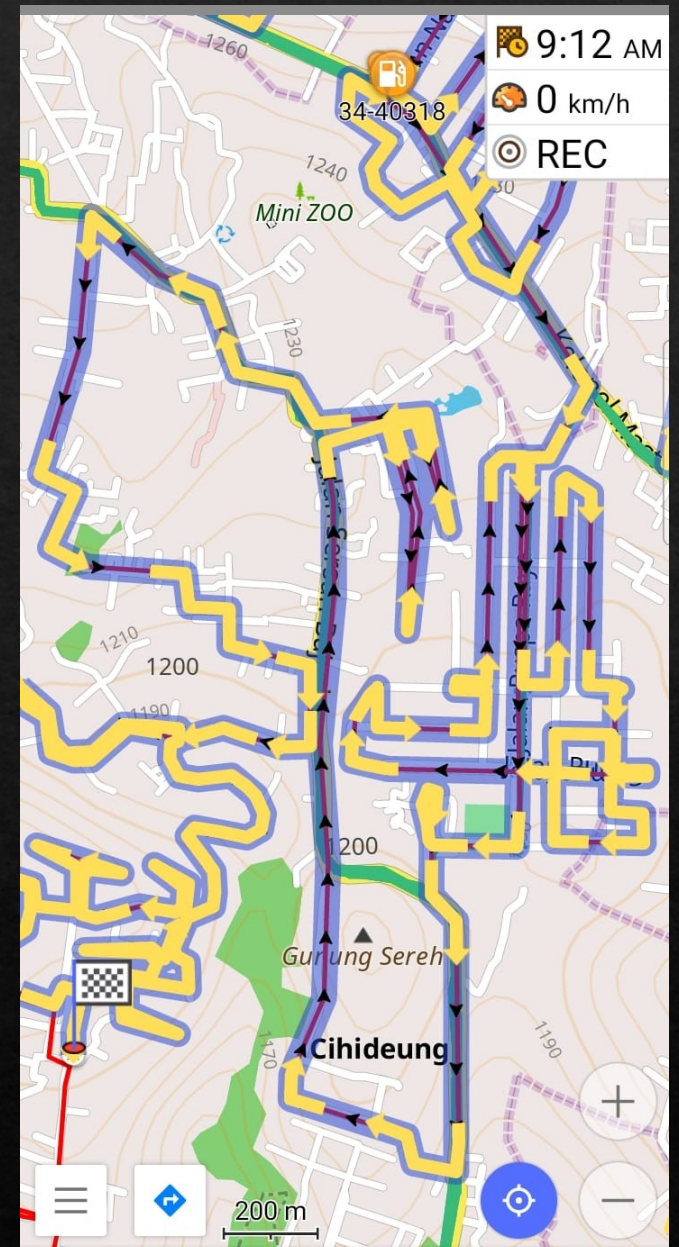
Total	2023-12-13_09-47_Wed bdg Northwest 2	2023-12-11_08-51_Mon bdg northwest 1	Cihideung	CigugurCihanjuang	new
2.43 km	^ 27m	∨ 7m	765 m		
Distance	Elevation		760 m		
0.0 km/h	0h00		755 m		
Speed	Moving time		750 m		
Distance units	Velocity units		745 m		
Metric	Speed		740 m		

The bottom of the interface features an elevation profile graph showing the route's vertical change over distance, with a scale from 0.00 km to 2.40 km on the x-axis and 740 m to 765 m on the y-axis.

Use OSMAnd App



- Open GPX route using OSMAnd
- On survey day, go to the starting point and start navigating from the gpx route
- Record your executed route using “REC” button in OSMAnd
- Adjust route accordingly if the ground situation is different from planning



GoPro Max Setup

- Download and install “Quik” application

GoPro Quik: Video Editor

GoPro

In-app purchases

4.4★

807K reviews

10M+

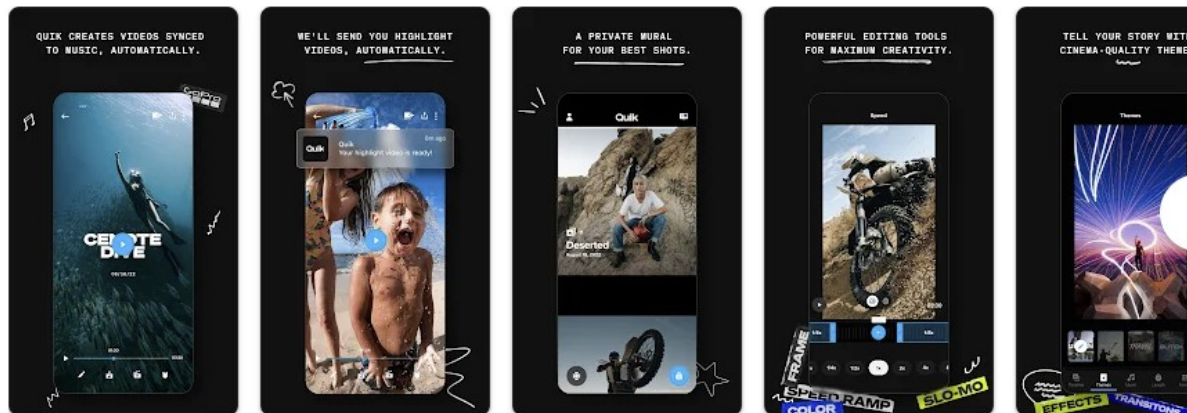
Downloads

E

Everyone

Install on more devices

 This app is available for some of your devices



Developer contact 

More apps to try 

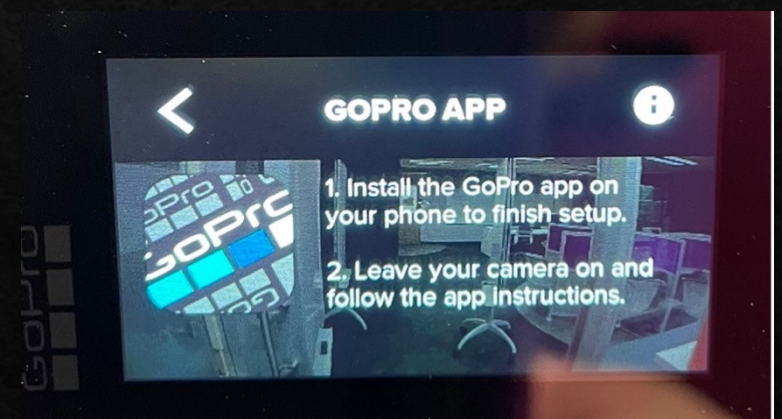
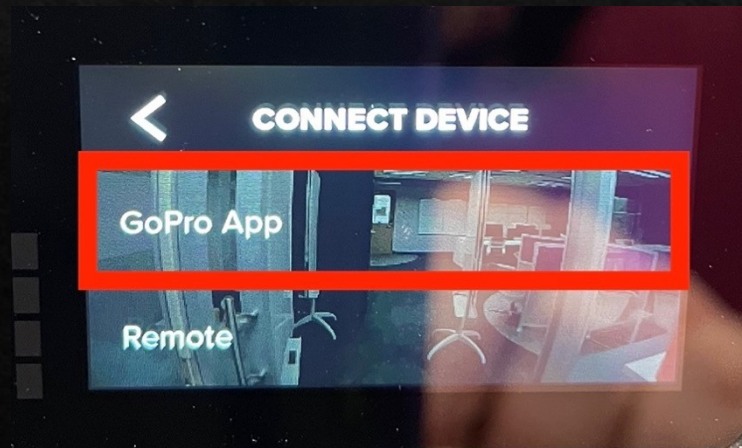
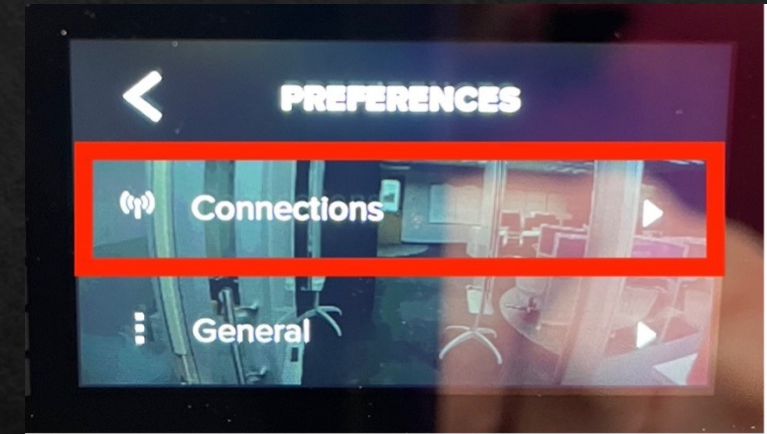


eBay: Marketplace for Shopping
eBay Mobile
4.7★

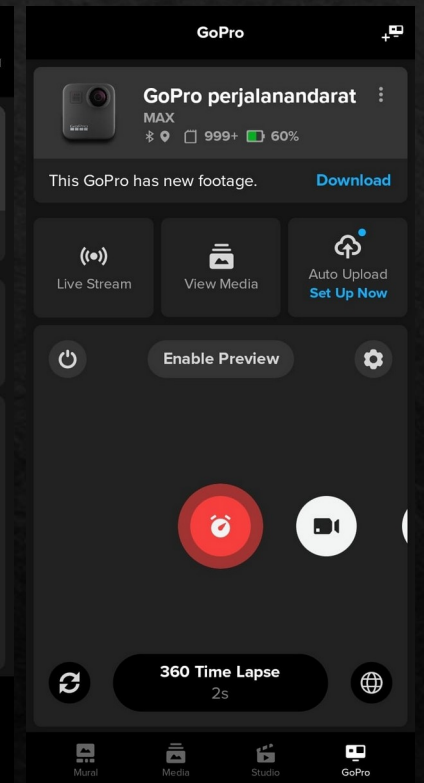
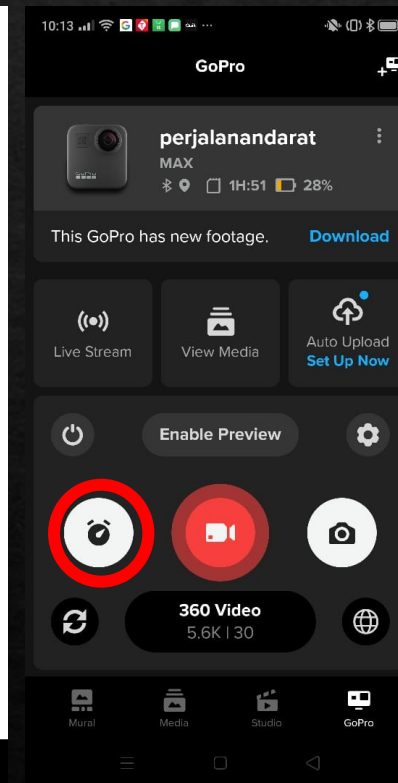
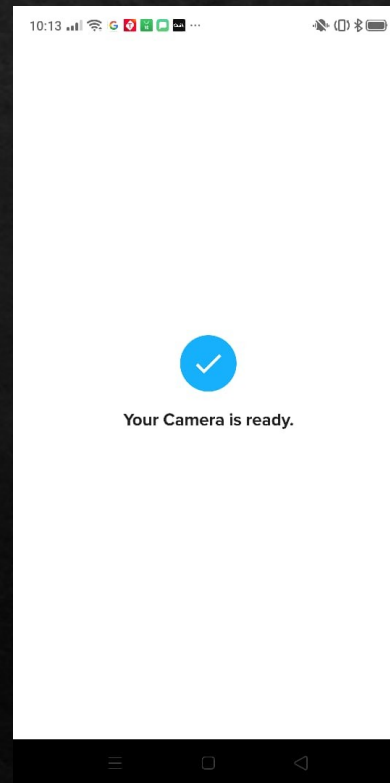
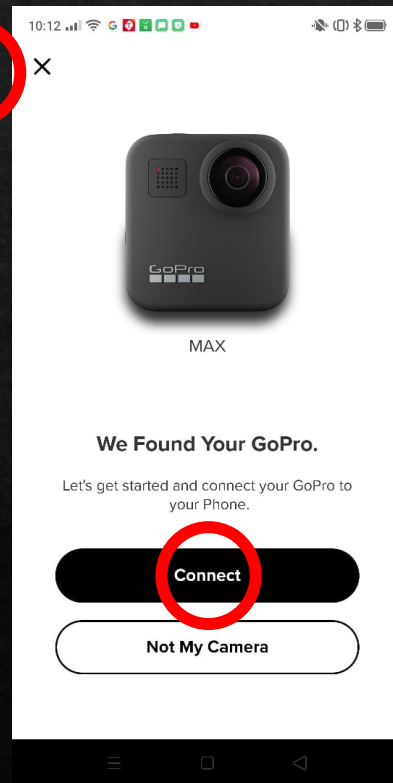
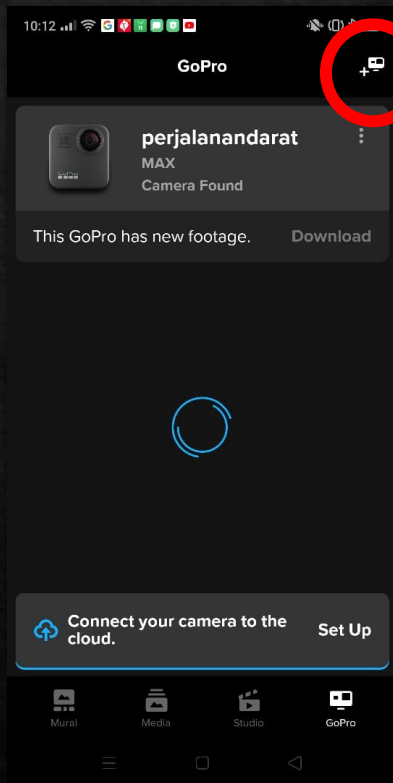
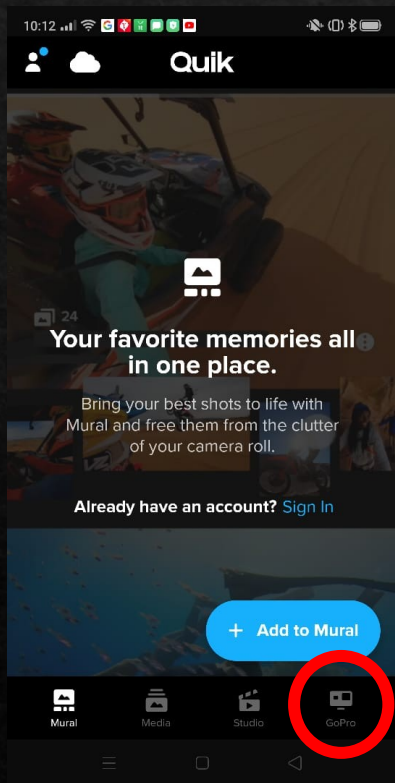


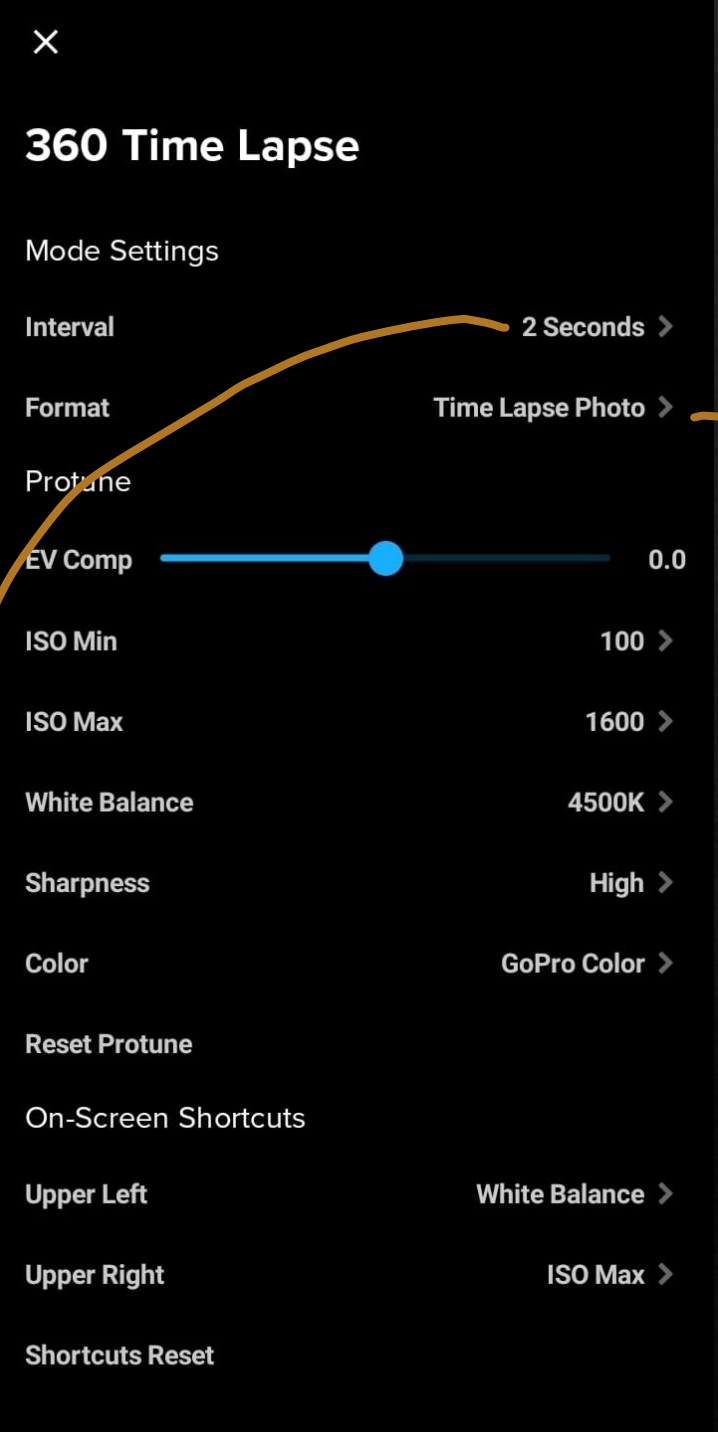
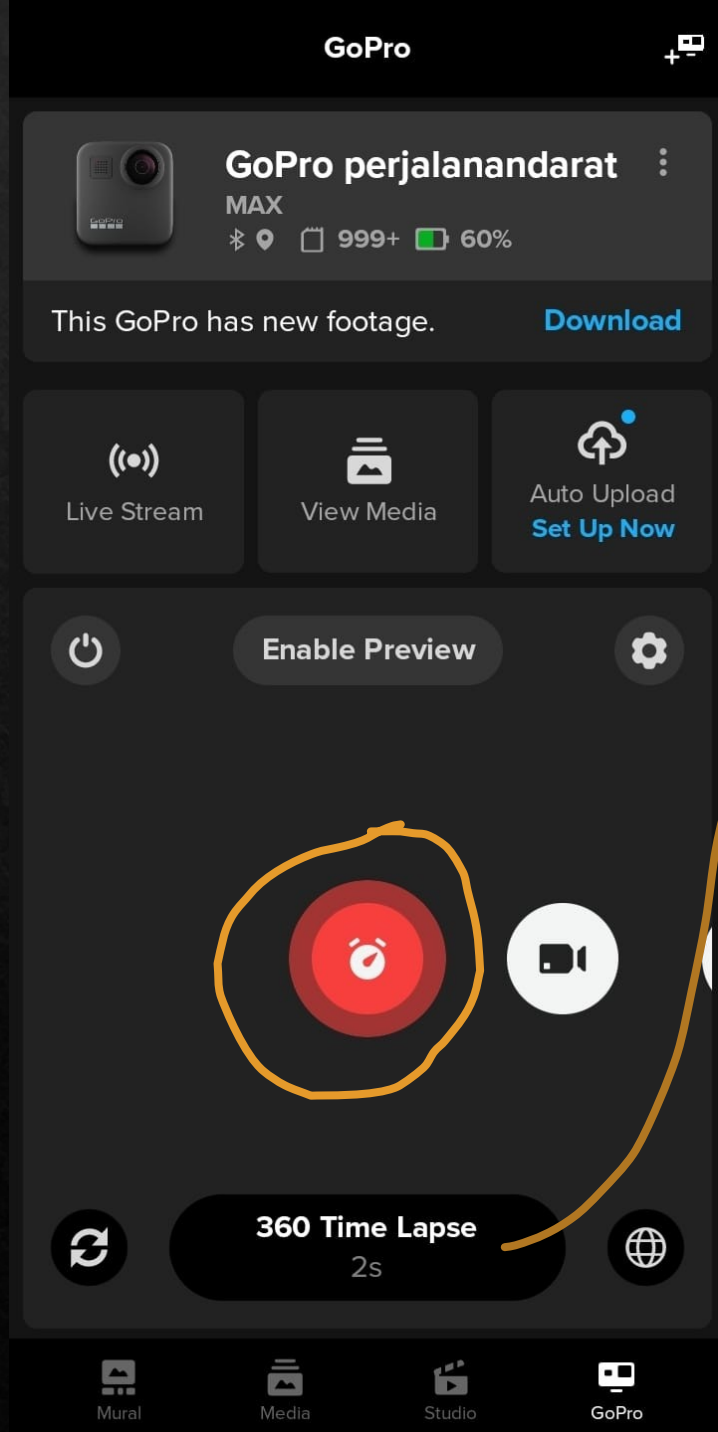
Disney+
Disney
4.5★

Connect GoPro Max to phone

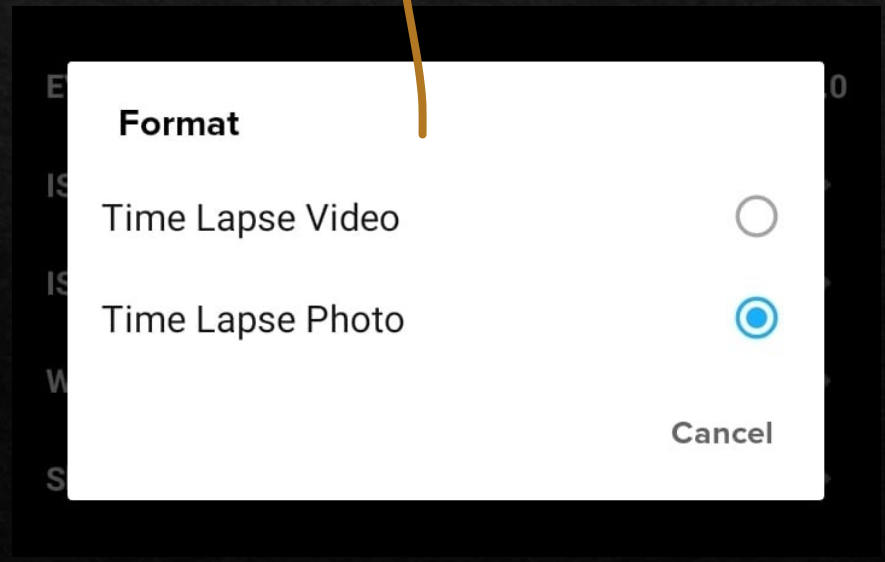


Setup Quik on the phone





amera Setting

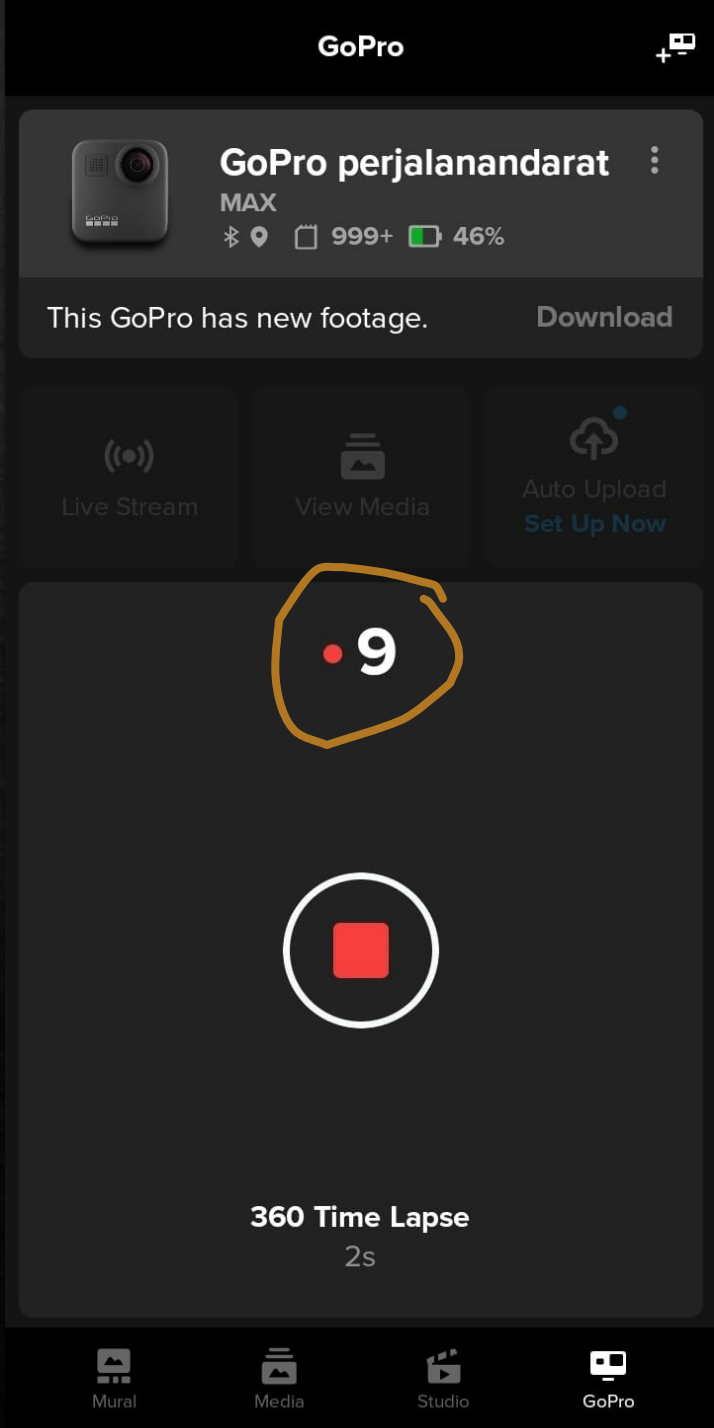


Camera checklist

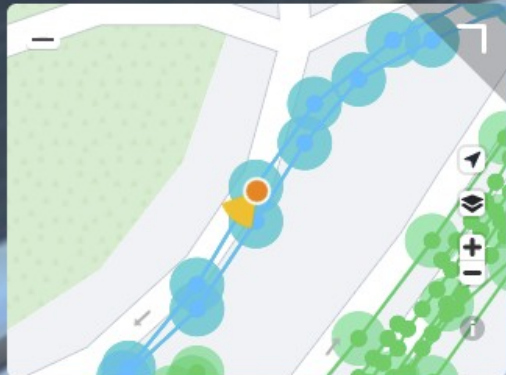
- Make sure there is enough battery power for the all-day survey (both for the camera and the smartphone)
- Make sure the SD Card is formatted or empty when starting image collection
- Turn on the camera wireless connection and connect it to your smartphone (with QUIK application installed)
- Before starting collecting imagery, wait until the camera can pick-up the proper GPS signal
- Make sure you are in “360 Mode” (not “HERO mode”)

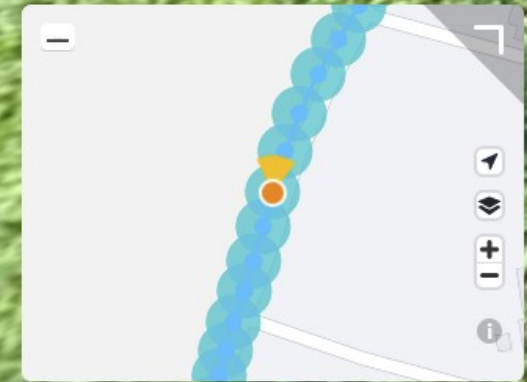
While collecting images

- Do not drive too fast because the minimum time elapse setting is 2 second. That means you will lose enough detail while collecting image with high speed.
- If possible, positioning your vehicle to cover balance side, left and right (especially when using motorbike).
- Avoid too close to the other vehicle to ensure the optimum viewing angle.
- Slow down when you encounter high contrast light when collecting image. Gopro Max will automatically adjust image exposure, but it takes time to adapt.



- Regularly check the camera to ensure it keeps taking photos. The number of photos should add up every 2 second
- Also pay attention to battery level and space available in SD Card



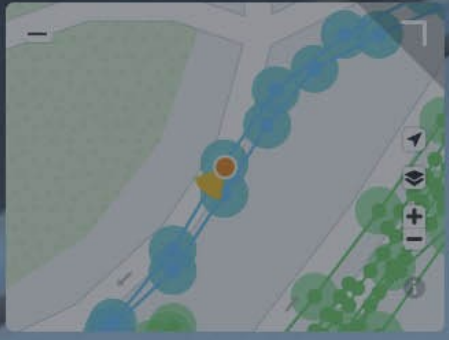


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- IMAGERY LAYERS
- My coverage
 - Mapillary

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Uploaded images 1.2 M
Distance mapped 10.3 K km
Member since Feb 19, 2021



May 24, 2023 11:38 AM 117



May 24, 2023 11:32 AM 300



May 24, 2023 11:24 AM 300