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Analysis of UAV multicopter of air photography in New Yogyakarta International Airports

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Abstract
The higher the quality of the drone, the longer the drone will fly and the better the quality of the drone's photography. Survey of research location in Glagah Indah Beach, preparation of drone at ground, we plan the height of flying drones, then testing drone at ground, we measure camera calibration, and then result capture in the air and images in the air. Vehicle specifications are as follows: Frame: F450; Flight Controller: DJI Naza M-Lite; Propellers: 1045 Prop; motorbike: brushless sunnysky 980 kv; ESC: Skywalker 40 Ampere 3s; Battery: Ace 3s Gens 5000 mAh; Remote: Turnigy 9XR with Frsky Tanserver; and camera: Xiaomi Yi 4k International edition. This drone type multicopter can penetrate the high of 100 meters to 200 meters and can air for 30 minutes, can take an area of up to 1 km while payload drones multicopter is 2.8 kg. This multicopter drone has a 12 megapixel sensor; maximum flight time of 15 minutes; speed of 20 m/s, maximum take-up speed of 6 m/s, maximum landing speed of 4 m/s, temperature range when operating drone 0 to 40 C and maximum image size of 4000x3000.

Keywords: DJI Phantom, drone, mapping, photography, UAV

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1. Introduction