

Photo settings and camera focus

It is recommended to do the following:

1. Decide on the working height and GSD for shooting. Usually, the height for the TOPODRONE DJI AIR 2 PPK is from 40 to 120 meters. Its value depends on many factors: the resolution of the final orthophotoplane, the height of obstacles, terrain features, etc. the
2. Select the 3:2 frame format and the JPEG file format. This format will allow you to use the entire area of the camera matrix and optimize the amount of data. Do not use the 16:9 format and shooting in RAW!
3. Lift the drone to the working height and rotate the suspension 90 degrees (the camera looks at the nadir). Make sure that the focus method is set to AF. Tap on the center of the screen to make the camera focus on the surface. After changing the value of the focus method to MF, a scale for manual focus adjustment will appear. Don't change it! The drone's camera is now focused for the selected altitude. It will not change in the future.
4. Now you need to configure the camera. By default, all parameters are determined automatically. In this case, the brightness and smoothing of the image will change during the flight. This complicates triangulation image processing: control points will be different on different images.

It is recommended to set the following camera image parameters to achieve the best shooting quality:

ISO: set or stick to a value from 100 to 200. Higher values will increase noise in the image and reduce the quality of the orthomosaic.

Aperture: This value for the TOPODRONE DJ AIR 2 PPK is constant and is 2.8, the aperture value cannot be changed.

Shutter: Set or stick to a value between 1/1600 and 1/640. Higher values increase blur, lower values decrease the amount of light transmitted, resulting in darker images.

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