

Adjusting the image settings

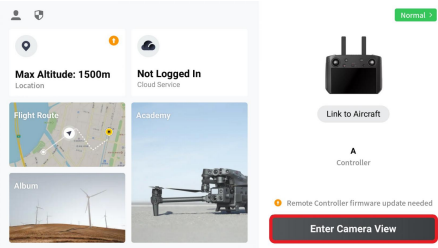
To obtain quality images, you must adjust the camera image. In case of incorrect settings, images from TOPODRONE P61 camera may be unsuitable for further photogrammetric post-processing. The final parameters are always individual, as they depend on the current lighting conditions, speed and altitude of the drone.

To obtain high-quality and correct images from the TOPODRONE P61 photogrammetric camera using the AGROWING multispectral lens, it is recommended to use the following parameters:

- Shooting mode: Shutter speed priority
- Shutter time: 1/1000 - 1/4000
- ISO: Auto
- White Balance: Auto
- Set the auto continuous focus mode (AF-C)
- Switch off autofocus when the shutter is turned on
- Set the camera to Single Shooting mode
- Turn off the Automatic Review
- Set high quality photos

Adjusting the parameters using the Smart Controller

После включения вашего летательного аппарата на камеру поступит электропитание, она пройдет инициализацию и отобразится в приложении DJI Pilot 2 как полезная нагрузка TOPODRONE.

	Step 1: Launch the DJI Pilot2 software. Make sure the software recognizes the drone and payload type Step 2. Select “Enter Camera View”, then the “Prepare for Flight” window will open, after closing this window, the Topodrone P61 camera view will be displayed Step 3. Make sure that there is a live video stream from the camera.
Step 4. Open the camera settings menu by clicking on the Three Dots button.	Step 5. The TOPODRONE P61 camera payload menu opens

		
Step 6: Adjust the 4 main image parameters: Light Sensitivity, Aperture, Aperture and Shooting Mode.	Step. 7	
		
Step 8: Close the menu and in AF (autofocus) mode, tap in the middle of the screen to focus the image. It is recommended to perform this step while flying on the ground from the mission operating altitude.	Step 9. Change the focus type from AF to MF. In this case all photos taken by TOPODRONE P61 will have the same focus value. This is important for correct photogrammetric post-processing	

Configuring shooting settings using a Wi-Fi connection

After the camera is turned on, an access point with the name of the Wi-Fi network **TD_61mp** will appear, to which you can connect using the password: **topodrone**.

After the connection has been successfully completed, in the browser window you should enter the address: 192.168.10.1

The **Main** menu displays the current camera settings and the video stream.



[S]	MF	ISO400	1/30	N/A	0.0	microSD[1696]	ZOOM 0%
Operating Mode	Focus Mode	light sensitivity	Shutter speed	Aperture value F	Exposure Correction	Number of remaining photos	Optical zoom value
Available values:	Available values: AF - center point autofocus MF - manual focus	Available values: 50...51200, Auto	Available values: 1/4000..30'	Available values: 2.8...22 (depending on lens) (N/A = not available for this lens)	Available values: -5.0...+5.0 in steps of 0.3.	Available values: varies with memory card and selected photo quality.	Available values: 0-100, magnification depends on the lens
[S] - Shutter speed priority [M] Manual [A] Aperture priority [iA] Intelligent Auto [P] Program Auto							

On the Settings tab, you can change the camera settings described in the previous step.

[P61-wifi_2.jpg](#)
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The following options are available on the settings page:

FOCUS - When pressed, the camera will focus. Available in autofocus mode only.

TAKE - The shutter button. When pressed, the camera will take a picture.

Focus Mode - Selects the focus mode (manual or auto).

PM - selection of operating mode, S - shutter speed priority, M - manual, A - aperture priority, P - program auto.

ISO - light sensitivity.

Shutter - shutter speed.

Aperture

EV - exposure step change.

JPEG Quality - JPEG quality. Available values: Fine/X.Fine/RAW.

Current values of camera parameters are displayed in the left column.

On the HW tab, use the buttons to navigate through the TOPODRONE P24 menu. This requires an HDMI connection to an external monitor. Use the HW tab only for special user settings.

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