

Product parameters

Photogrammetric camera TOPODRONE P61 is equipped with a full-frame CMOS sensor with a global mechanical shutter and the ability to change lenses. This camera can be mounted on a 3-axis suspension or together with one of the TOPODRONE laser scanners.



TOPODRONE P61 on a 3-axis suspension system



TOPODRONE P61 with TOPODRONE laser scanner installation option

Supply package

1. Photogrammetric camera TOPODRONE P61
2. Lens for TOPODRONE P61*
3. 3-axis suspension*
4. GNSS receiver TOPODRONE UAV PPK UPGRADE Kit with MicroSD card 16 GB*

5. Power and shutter connection cable LEMO 4 PIN / LEMO 6 PIN*
6. USB to LEMO 6 PIN cable for connecting the camera to the internet and diagnostics
7. GNSS antenna plate with cable and mounting screws*
8. External GNSS antenna*
9. SD XC-I 64 GB memory card*
10. Protective case for transportation*
11. L-shaped platform with screws for attaching the camera to the laser scanner*
12. Skyport-SHLD adapter*

* - depends on the delivery package.





1. TOPODRONE P61 camera body
2. SD memory card
3. Lens
4. SHLD - for connecting cameras with a 3-axis suspension or connecting to a drone via a Skyport-SHLD adapter
5. LEMO 6 pin connector for camera maintenance and connection to the TOPODRONE laser scanner when used together.
6. Connector for 3-axis stabilizer X-Port
7. LEMO 4 pin - for connection to TOPODRONE UAV PPK Upgrade Kit or TOPODRONE laser scanner.
8. Camera rotation motor
9. Tilt axis motor
10. Roll axis motor
11. Micro HDMI - for connecting camera to monitor
12. USB type-C connector
13. Multi/Micro USB

Supported drone

The TOPODRONE P61 photogrammetric camera can be used on almost any drone.

Full control and transmission of the video stream in real time to the remote control is possible only on DJI Matrice 2** and 3** series drones.

Compatible lenses

TOPODRONE P61 supports lenses with Sony E mount. The camera can be supplied with one of the following lenses: Sony FE 24mm f/2.8 G or Voigtlander Color-Skopar 21mm f/3.5. Specifications are shown in the table below.

Characteristic	Sony FE 24mm f/2.8 G	Sigma AF 24mm F/3.5 DG DN Contemporary	Voigtlander Color-Skopar 21mm f/3.5
Bayonet	Sony E	Sony E	Sony E
Focal length, mm	24	24	21
Angle of view (APS-C), °	84,0	84	91,2
Minimum aperture value	2,8	3,5	3,5
Maximum aperture value	22	22	22
Minimum focusing distance, m	0,24	0,11	0,20
Size (diameter × length), mm	68 × 45	64 x 48.8	62,8 × 39,9
Weight, g	162	230	230

Technical specifications TOPODRONE P61

Camera type	Mirrorless with interchangeable optics
Bayonet	Sony E
Image stabilization	Disconnected
Number of megapixels	61
Matrix size	Full frame (35.7x23.8 ??)
Maximum photo size, pixel	9504 x 6336
Matrix Type	CMOS
Crop factor	1
Shooting modes	Shutter speed priority, aperture priority, Manual, auto ISO
ISO range	100-32000
Shutter speed range, s	30 – 1/8000

Supported memory card formats	Memory cardsSD, SDHC (with support UHS-I/II), SDXC (with support UHS-I/II), microSD, microSDHC, microSDXC
The maximum amount of supported memory, Gb	512
Supported file system type	FAT32
Built-in battery	Absent
The weight of the camera without 3-axis suspension, g	685
Weight of the camera with 3-axis suspension, g	1045
The ability to shoot videos	Absent
Operating temperature range, °C	-20 ... +40
Stabilizer tilt angle range, °	-130 ... +140
Stabilizer rotation angle range, °	±320

Technical specifications TOPODRONE UAV PPK Upgrade Kit

The TOPODRONE AV PPK Upgrade Kit is a small GNSS receiver with the ability to connect an external GNSS antenna and integrate with various payloads.



Supported GNSS systems and frequencies	GPS: L1C/A, L2C; GLONASS: L1OF, L2OF; GALILEO: E1B/C, E5b; BEIDOU: B1I, B2I
Raw measurement recording frequency, Hz	10
Number of GNSS receiver channels	184
Supported memory card formats	microSD, microSDHC, microSDXC
Maximum amount of supported memory, GB	16
Supported file system type	FAT32
Minimum number of satellites for initialization	8

Revision #17

Created 30 September 2024 06:45:06 by Tatiana

Updated 28 August 2025 12:17:18 by Tatiana