

Product parameters

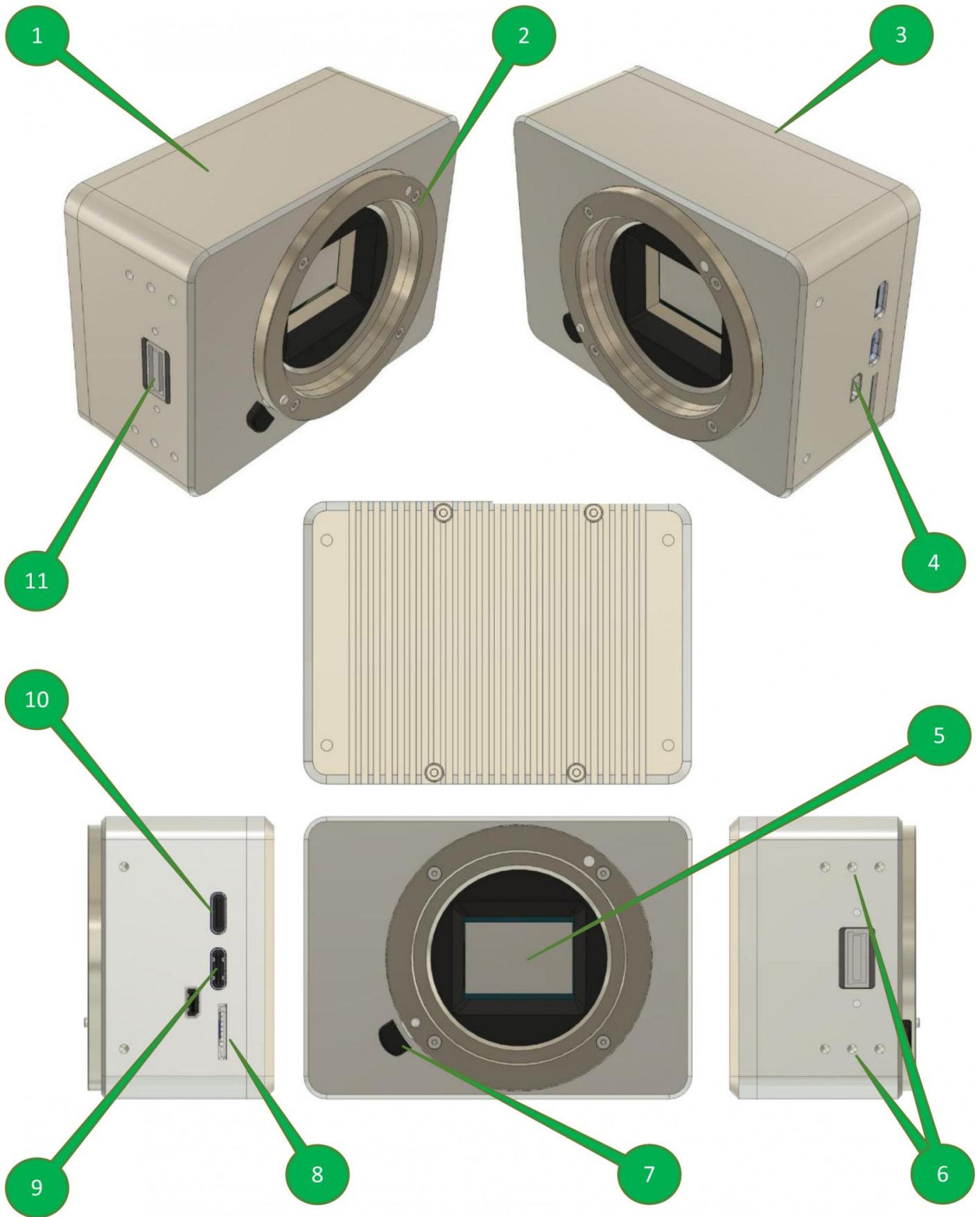
Photogrammetric camera TOPODRONE P24 is equipped with APS-C format sensor with global mechanical shutter and possibility to change lenses. This camera can be mounted on a 3-axis gimbal or together with one of the TOPODRONE laser scanners (depending on the delivery set).

Supply package

1. Photogrammetric TOPODRONE P24 camera – 1 pc.
2. Sony 16 mm SEL16F28 Lens – 1 pc.
3. TOPODRONE PPK UAV GNSS Receiver – 1 pc.
4. GNSS external helix antenna – 1 pc.
5. MicroSD card 16 GB for TOPODRONE PPK UAV GNSS Receiver – 1 pc.
6. MicroSD card 32 GB Photogrammetric TOPODRONE P24 – 1 pc.
7. USB Type-C to SHLD cable – 1 pc.
8. SHLD – SHLD connection cable – 1 pc.
9. * GNSS antenna cable – 1 pc.
10. * 3-Axis Gimbal DJI X-Port – 1 pc.
11. * Protective transport case with spoon (depending on delivery) – 1 pc.
12. * L-shaped platform with screws for attaching to TOPODRONE LiDAR – 1 pc.
13. * Skyport-SHLD adapter (when installed together with TOPODRONE LiDAR) – 1 pc.

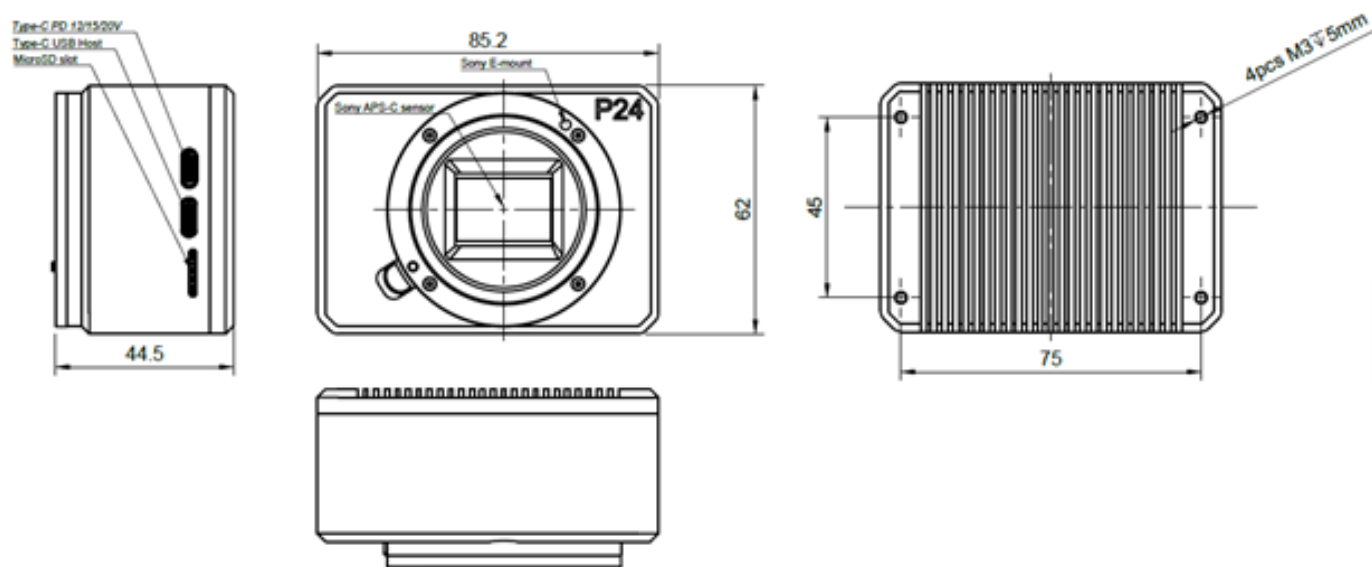
* optionally available

TOPODRONE P24 Scheme



- | | | | |
|----|------------------------|-----|--|
| 1. | Main body | 7. | Bayonet lens release button |
| 2. | Sony E Type bayonet | 8. | Micro-SD card port |
| 3. | Back cover | 9. | USB Type-C 1 (mobile device connection) |
| 4. | Micro-HDMI port | 10. | USB Type-C 2 (external power connection) |
| 5. | APS-C sensor | 11. | SHLD port for UAV connection |
| 6. | Side M3 threaded holes | | |

TOPODRONE P24 dimensions drawing



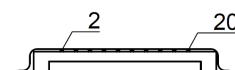
Supported aircraft

The TOPODRONE P24 photogrammetric camera can be used on almost any unmanned aerial vehicle, it is recommended to consult the manufacturer of the equipment.

Full control and live video streaming to the remote control is only possible on DJI Matrice 2** and 3** series drones.

SHLD Pin Description

X1 Connector Pin description



N	Name	N	Name
1	Vin	2	Gnd
3	Vin	4	Gnd
5	Vin	6	Gnd
7	nc	8	nc
9	Trigger Output	10	TimeMark
11	UART TX	12	UART RX
13	nc	14	nc
15	nc	16	nc
17	LAN TX+	18	LAN RX+
19	LAN TX-	20	LAN RX-

Compatible lenses

TOPODRONE P24 supports lenses with Sony E mount. When operating the TOPODRONE P24 on an aircraft-type UAV, it is recommended to use a lens with a fixed focal length and a manual focus adjustment wheel set to infinity.

It comes with a Sony SEL16F28 lens or COLOR-SKOPAR 21mm F/3.5 lens, its specifications are shown in the table below.

Sony SEL16F28 lens

Bayonet	Sony E	
Focal length, mm	16 Stock	
Equivalent focal length for 35 mm, mm	24	
Angle of view (APS-C), °	72	

Minimum aperture value	2,8
Maximum aperture value	22
Minimum focusing distance, m	0,24
Size (diameter × length), mm	62 × 22,5
Weight, g	67

COLOR-SKOPAR 21mm F/3.5 lens

Bayonet	Sony E
Focal length, mm	21 Stock
Equivalent focal length for 35 mm, mm	31.май
Angle of view (APS-C), °	58
Minimum aperture value	03.май
Maximum aperture value	22
Minimum focusing distance, m	0,24
Size (diameter × length), mm	62 × 22,5
Weight with a blend, g	243
Weight w/o a blend, g	232



COLOR-SKOPAR 21mm F/3.5 lens

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