

Specs – DJI Zenmuse P1 Camera

General

- Dimensions
198×166×129 mm
- Weight
Approx. 800 g
- Power
20W
- IP Rating
IP4X
- Supported Aircraft
Matrice 300 RTK
- Operating Temperature Range
-20° to 50° C (-4° to 122° F)
- Storage Temperature Range
-20° to 60° C (-4° to 140° F)
- Absolute Accuracy
Horizontal: 3 cm, Vertical: 5 cm *
* Using Mapping Mission at a GSD of 3 cm and flight speed of 15 m/s, with an 75% front overlap rate and a 55% side overlap rate.

Camera

- Sensor
Sensor size (Still): 35.9×24 mm (Full frame)
Sensor size (Max video recording area): 34×19 mm
Effective Pixels: 45MP
Pixel size: 4.4 μm
- Supported Lenses
DJI DL 24mm F2.8 LS ASPH (with lens hood and balancing ring/filter), FOV 84°
DJI DL 35mm F2.8 LS ASPH (with lens hood and balancing ring/filter), FOV 63.5°
DJI DL 50mm F2.8 LS ASPH (with lens hood and balancing ring/filter), FOV 46.8°
- Supported SD Cards
SD: UHS-I rating or above; Max capacity: 512 GB Storage
- Files
Photo / GNSS Raw Observation Data/ Image Log File
- Photo Size
3:2 (8192×5460)

- Operation Modes
Photo, Video, Playback
- Minimum photo interval
0.7 s
- Shutter Speed
Mechanical Shutter Speed: 1/2000*-1 s
Electronic Shutter Speed: 1/8000-1 s
*Aperture value no larger than f/5.6
- Aperture Range
f/2.8-f/16
- ISO Range
Photo: 100-25600
Video: 100-25600

Video

- Video Format
MP4,MOV
- Video Resolution
16:9 (1920×1080)
16:9 (3840×2160)*
*Only 35mm lens supported
- Frame Rate
60fps

Gimbal

- Stabilized System
3-axis (tilt, roll, pan)
- Angular Vibration Range
 $\pm 0.01^\circ$
- Mount
Detachable DJI SKYPORT
- Mechanical Range
Tilt: -130° to $+40^\circ$;
Roll: -55° to $+55^\circ$;
Pan: $\pm 320^\circ$