

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: $\pm 320^\circ$