

Clifton Cameras Product Specification

Zenmuse P1 Full Spec

ZENMUSE P1

General

- **Product Name**
- ZENMUSE P1

- **Dimensions**
- 198x166x129 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): 35.9x24 mm (Full frame)
Sensor size (Max video recording area): 34x19 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**
- ±0.01°

- **Mount**
- Detachable DJI SKYPORT

- **Mechanical Range**



- Tilt: -130° to $+40^{\circ}$;
Roll: -55° to $+55^{\circ}$;
Pan: $\pm 320^{\circ}$