

# Specs

## General

Product Name	Zenmuse P1
Dimensions	198×166×129 mm
Weight	Approx. 787 g
Power	13 W
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-1 rating or above; Max capacity: 128 GB
Storage Files	Photo / GNSS Raw Observation Data/ Image Log File
Photo Size	3:2 (8192×5460)
Operation Modes	Capture, Record, Playback
Minimum photo interval	0.7 s
Shutter Speed	Mechanical Shutter Speed: 1/2000-1/8 s Electronic Shutter Speed: 1/8000-8 s
Aperture Range	f/2.8-f/16
ISO Range	Photo: 100-25600 Video: 100-3200

## Video

Video Format	MP4
Video Resolution	16:9 (3840×2160)
Frame Rate	60fps

## Gimbal

Stabilized System	3-axis (tilt, roll, pan)
Angular Vibration Range	0.01°
Mount	Detachable DJI SKYPORT
Mechanical Range	Tilt: -125° to +40°; Roll: -55° to +55°; Pan: ±320°

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