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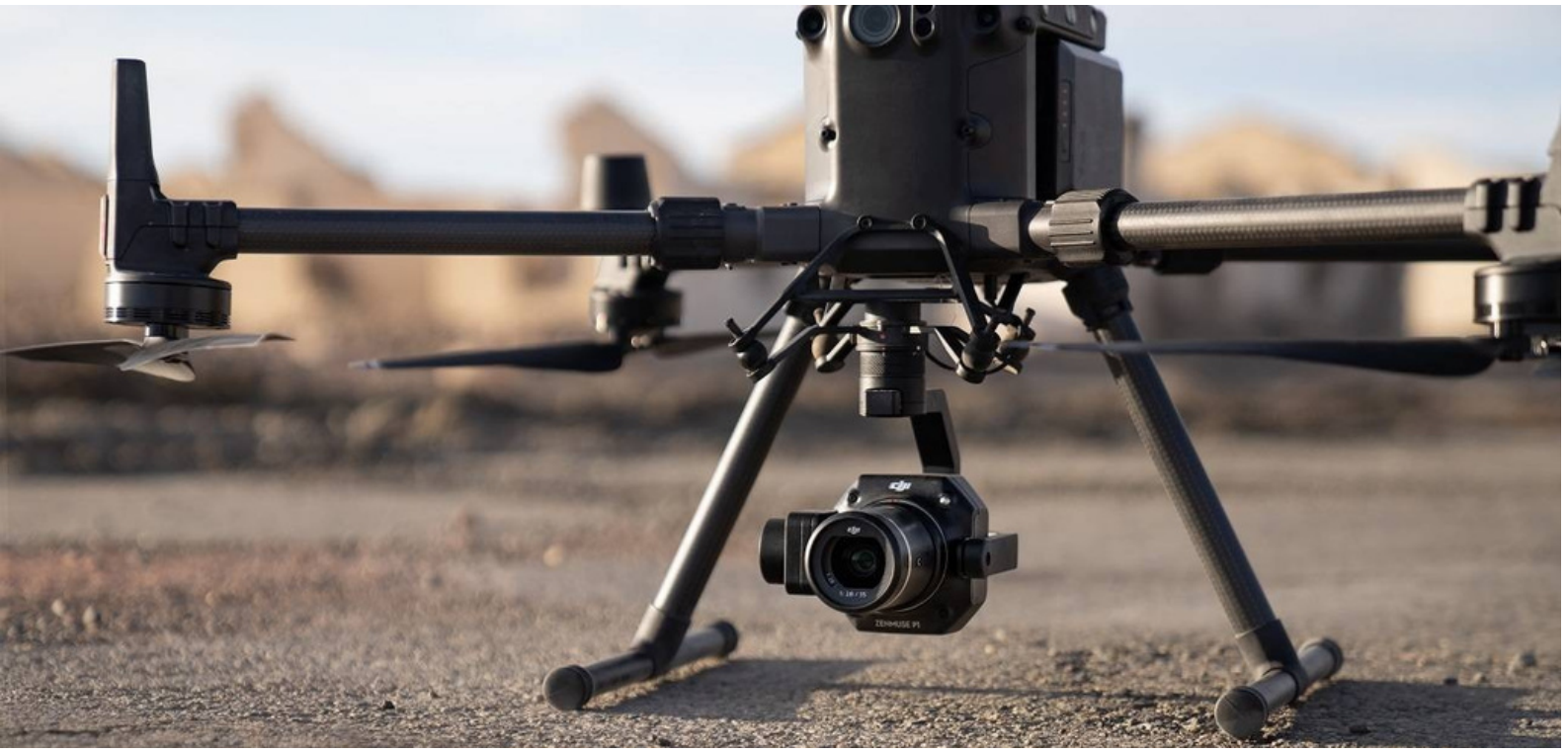
# KAM Zenmuse P1

## Sensors

BY

**KAMBILL SYSTEMS PVT. LTD.**



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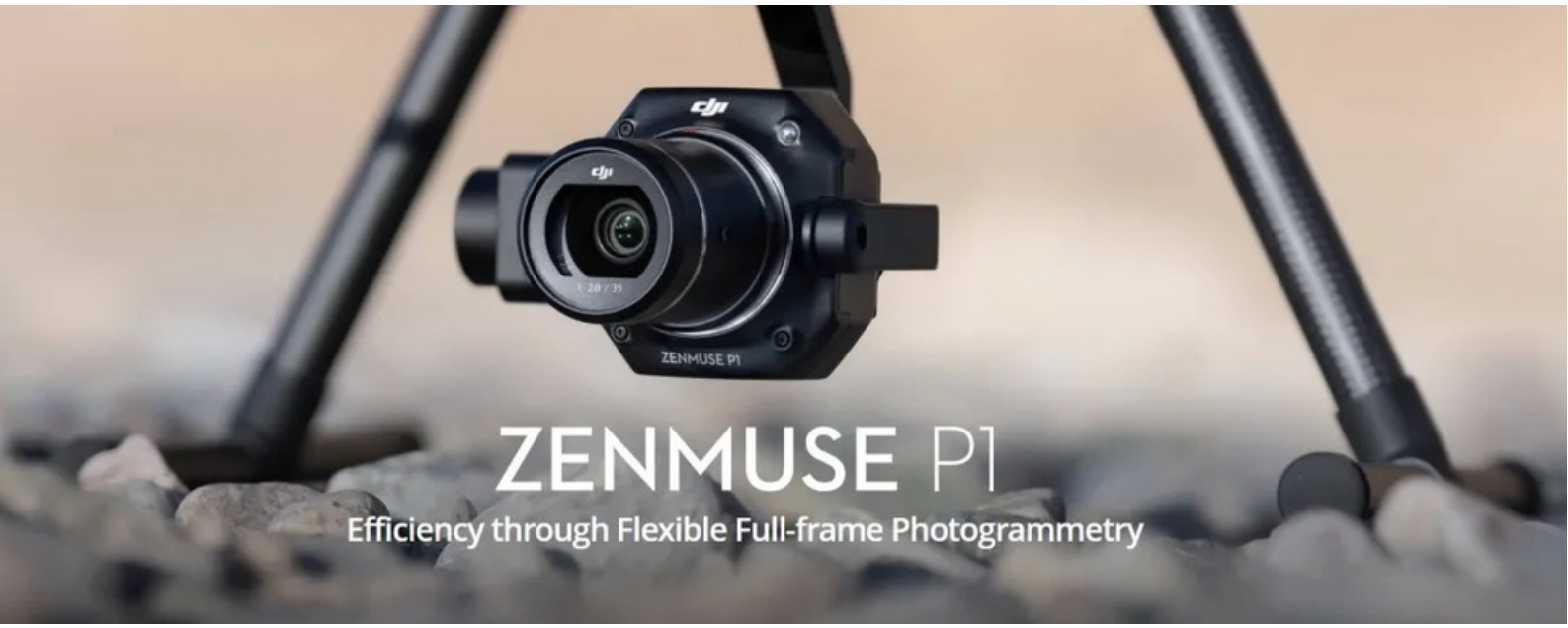


## ABOUT THE PRODUCT

The KAM Zenmuse P1 is a high-precision photogrammetry camera designed for professional aerial surveying and mapping applications. It features a full-frame 45 MP sensor and integrates seamlessly with KAM drones, capturing ultra-high-resolution images with exceptional detail. The P1's advanced capabilities enable accurate 3D reconstruction and modeling for industries such as agriculture, construction, and land surveying.

## APPLICATIONS

- Topographic Mapping and Surveying
- Cadastral Surveying
- Geological Investigation

## FEATURES

### SMART OBLIQUE CAPTURE

Cover 7.5 km2 [4] in a single workday with the P1. Elevate the efficiency of your oblique photography mission using Smart Oblique Capture, where the gimbal automatically rotates to take photos at the different angles needed.

### FIELDWORK REPORT

Verify data quality immediately post-flight by checking the position data and number of the images acquired, as well as RTK status and positioning accuracy.

### FULL-FRAME CAMERA

- 45MP Full-frame Sensor
- 4.4µm Pixel Size

-Low-noise, high sensitivity imaging extends daily operational time

## CONTACT US

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# General

- Product Name
  - ZENMUSE P1
- 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
  - KAM DL 24mm F2.8 LS ASPH (with lens hood and balancing ring/filter), FOV 84°
  - KAM DL 35mm F2.8 LS ASPH (with lens hood and balancing ring/filter), FOV 63.5°

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- KAM 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
  *Aperature 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)

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- Angular Vibration Range
  - ±0.01°
- Mount
  - Detachable KAM SKYPORT
- Mechanical Range
  - Tilt: -130° to +40°;
    Roll: -55° to +55°;
    Pan: ±320°

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