

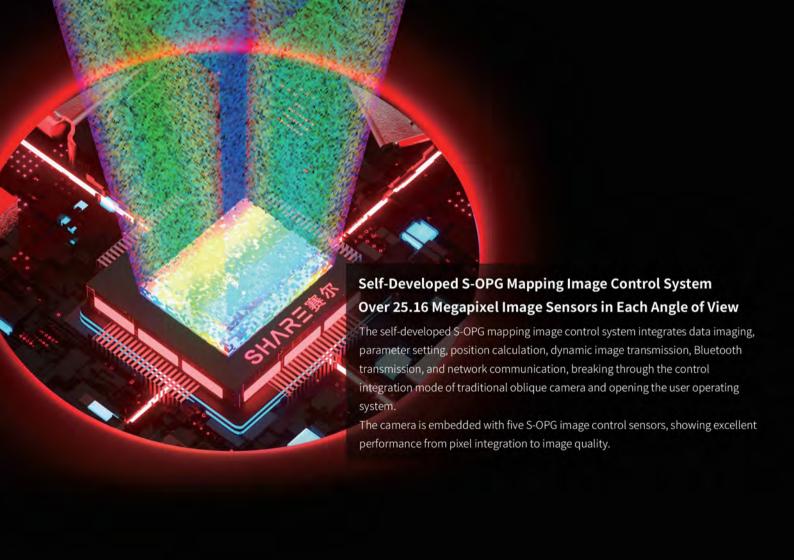


Gimbal Brings More Wonderful

PSDK 102S V3

5-Lens Oblique Camera With







In Addition to Basically Enhancing Stabilization Supporting Multi-Angle Picturing

The intelligent 3-axis Gimbal can guarantee the horizontal stabilization of camera, realizing the high overlap between original data and the calculated aerial triangulation.

The pitching angle can be freely adjusted within 180 degree, so it can be used for building facade shooting; And stereo overlaying function enables users to view more details of oblique photography.

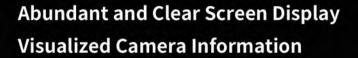


Super Durable S-GS Global Shutter Prolonging Working Life by Three Times A Cost-Effective Productivity Tool.

The independently developed S-GS global shutter can stabilize image at high speed flies clearly, improving capturing efficiency and quality.

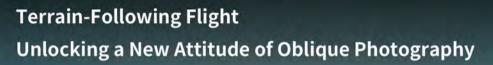
The Shutter is integrated with KIMOTO high speed shading blade with double structure, so that the friction coefficient is low and high temperature resistance is high. Therefore, it is designed for high frequency trigger scenarios, and is more stable and durable.





The camera is equipped with a new upgraded OLED HD color screen, which can display the camera status and parameter settings in a real-time way, including trigger signal type, number of photos, body temperature, ambient humidity, RTK status, Bluetooth connection status, RAM, shutter life, and other important information. It is intuitive and easy for user operation.

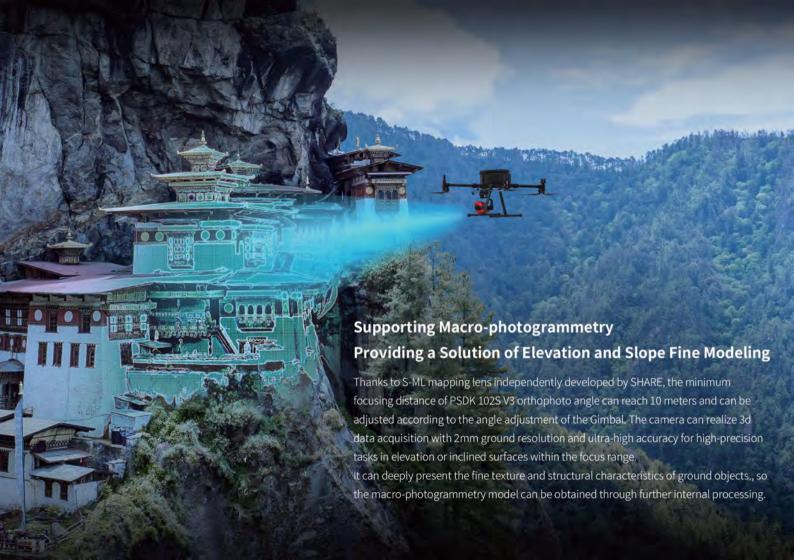




The three-axis Gimbal-enhanced terrain-following flight enables adjustment of camera to ensure that the camera shooting angle is always vertical to the ground to give full play to the extreme performance of UAV and camera and improve the operation efficiency.



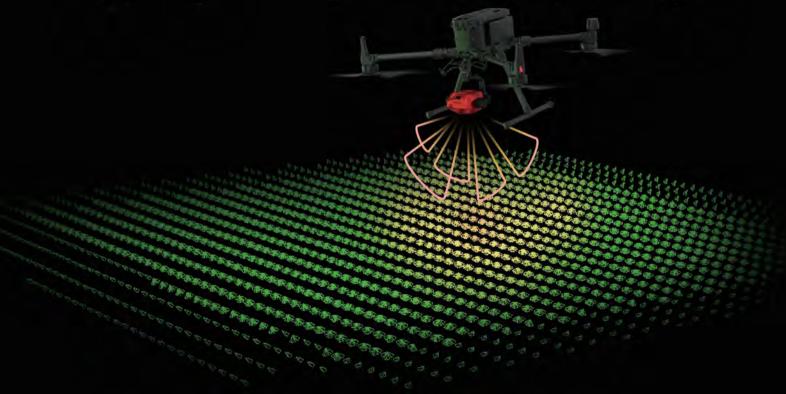




Instantly Triggering and Writing POS and Photographs

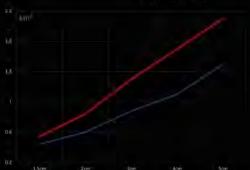
TimeSync 2.0 time synchronization algorithm is incorporated deeply, synchronizing time at microsecond-level with UAV, recording five-view centimeter-level position information independently and accurately, and letting POS write photos instantly without integrating any in-industry software.

It uses highly mature image free control technology and is the individual operation new weapon in Aerial surveying.

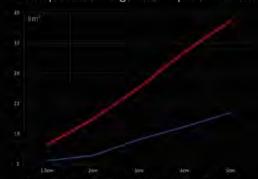


Comparison on PSDK 102S V3 Operational Efficiency

PSDK 102S V3 Traditional 100-Megapixel Five-Lens Camera



Comparison on Single Sortie Operation Efficiency



Comparison on All Day Operation Efficiency

Working time of traditional 100-megapixel five-lens camerals 9:00-15:00, totally 6 hours/day, and the maximum operating speed is 10m/s; while PSDK 102S V3 can extend the working time to 8:00-17:00, totally 9 hours/day, and the maximum operating speed is 15m/s.

DJI M300 RTK + PSDK 1025 V3 Aerial Survey Efficiency Table

It should be calculated based on 30min of single sortie and 9h of whole day.

Overlap rate: forward overlap is 80% and side overlap is 70%.

Ground Resolution	Flight Hight m	Flight Speed m/s	Single Sortie Operation Area km²	All-Day Operation Area km²
1.5	100	12.3	0.54	10.1
2	133	15	0.84	16.9
3	200	15	1.3	25.2
4	266	15	1.7	34.7
5	333	15	2.1	42.9

The above data are measured in a controlled test environment for reference only. There may be errors in ulliferent project requirements or operating environments, so please subject to actual operating conditions.

Specification

Size 120*120*83mm;171*192*185mm(with Gimbal)

Weight 610g;1100g(with Gimbal)

Working Temperature -10°C-40°C Storage Temperature -20°C-50°C

Absolute Precision Plane precision: 3cm, height precision: 5cm, groundresolution-3cm, flight speed 15m/s,

forward overlap 80%, side overlap 70%;

Camera Power Supply Two interfaces, external: DC 12-50V

Effective Pixels Single lens ≥ 25 million pixels, total 125 million pixels

Sensor Sensor size: 23.1x15,4mm(APS-C)

Pixel Size 3.76µm

Image Size 6144 X 4096px

Data Storage Photo/POS file with GPS information and camera parameter information

Focal Lens Oblique: 35mm, normal incidence: 25mm

Oblique Angle 45 degree

ISO Interval 50-200,50-400,50-640,50-800,50-1000,50-1600

Shutter Speed 1/500,1/640,1/800,1/1000,1/1250

Aperture Size F5.6 Storage Capacity 1280GB Shooting Interval $\geqslant 0.5$ S

Stable System 3-axis (Pitch, roll, yaw)

Installation Method DJI SKYPORT; DJI SKYPORT adapter

Gimbal Rotating Range Pitch: -120°~ +45°:Roll: ±45°:Yaw: ±160°

