



D2M

Five-lenses oblique camera 3D modeling system

Introduction

D2M is a high compatibility oblique camera that can be carried by multi-rotor drones. Matched with PPK/RTK systems, it can achieve 3D model's accuracy within 3cm without any GCPs. This oblique camera continues the advantages of light weight, small size, reasonable focal length and low maintenance cost, and also enhances the efficiency of data download and adaptability to various weather conditions.

Applications

3D modeling, Surveying and Mapping, GIS, Smart City, Construction, Mining, etc

Features

Light weight and small size.	High compatibility.	Reasonable focal length.	High accuracy.	Real-scene 3D modeling.

Advantages

1. Self-developed optical lens: born for photogrammetry.
2. Intelligent data-preprocessing software: download photos with one-click and save the 3D modeling time.
3. Easy to use: use mobile phone Bluetooth to control camera.
4. Robust and safe: the shell made of CNC aluminum alloy is used to protect the important lenses.
5. Reasonable focal lengths: One vertical 25mm, four obliques 35mm, ensure that the resolution of five lenses is consistent.
6. Synchronization control: support the timesync tech, improve the accuracy of RTK data.
7. Independent data-storage module: download speed of photos can reach 300m / s.
8. Sky-filter: a supporting software that can eliminate the invalid photos in the extended flight route.
9. Real-time feedback: can show the working state of five lenses on the screen to avoid invalid flight.
10. Parameter-Adjust module: allow to adjust the ISO and shutter speed of five lenses according to weather condition.

Parameters

QTY of Lens: 5pcs	Effective Pixels: 24.3MP(single lens)/120MP(in total)
Focal Length: 25mm(Vertical)/35mm(Oblique)	Size: 160*160*84mm
Weight: 960g	Sensor Size: APS-C, 23.5*15.6mm
Exposure Interval: ≥0.8s	Camera exposure mode: Isochronic/Isometric Exposure
Lens Angle: 45 degree	Power supply: Powered by drone
Storage: 640GB*2	Data download speed: ≥300M/s
Work temperature: -10°C~+50°C	IP rate: IP 43

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