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Efficient Drone Surveying

Oblique Photogrammetry with No GCP Used

Products

SHARE 102S Series

Model No.	SHARE 102S	PSDK 102S*	SHARE 102S Pro
Pixels / Lens	24.3MP	24.3MP	24.3MP
CNC housing	√	√	√
OLED screen	√	√	√
Independent POS data	√	√	√
J30J Port	√		√
SkyPort		√	√
Compatibility	VTOL, multi rotor	DJI M210, M300	DJI M210, M300, M600, VTOL, multi rotor

- 120MP in total
- ≤650g
- 35mm lens
- APS -C

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Products

SHARE 102S Series - Parameters

QTY of Lens	5 pcs	Material	CNC aluminum alloy
Focal Length	35 mm	Size	140 x140 x 80 mm
Effective Pixels	24.3MP, total pixels≥120MP	Weight	≤ 650 g
Sensor Size	APS-C (23.5mm x 15.6mm)	Data Reading	USB3.0 Type-C
Lens Angle	45 degree	Data Preprocessing	SHARE Data Manager
Exposure Interval	≥0.8 s	Real-time Image Transmission	PSDK Supported
Storage	1280 GB	Real-time Kinematic	Supported
Power Supply	SkyPort / J30J	Intelligent Temperature Control	Supported
Power On / Off	Auto On / Off	OLED	Supported
Operating Temperature	-10℃~50℃	One Key Reset / Repaire	Supported
Humidity	95%	Firmware Upgraded	Upgrade online

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Products

SHARE 202S Series

Model No.	SHARE 202S	SHARE 202S Pro
Pixels / Lens	42.4 MP	42.4 MP
CNC housing	√	√
OLED screen	√	√
Independent POS data	√	√
J30J Port	√	√
SkyPort		√
Compatibility	VTOL, multi rotor	DJI M210, M300, M600, VTOL, multi rotor

- 210MP in total
- ≥ 1000g
- 56mm + 40mm lens
- Full Frame

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Products

SHARE 202S Series - Parameters

QTY of Lens	5 pcs	Material	CNC aluminum alloy
Focal Length	56 mm x 4pcs 40 mm x 1pcs	Size	160 x160 x 105 mm
Effective Pixels	42.4MP, total pixels≥210MP	Weight	≥ 1000 g
Sensor Size	Full Frame (35.9 mm x 24mm)	Data Reading	USB3.0 Type-C
Lens Angle	45 degree	Data Preprocessing	SHARE Data Manager
Exposure Interval	≥1.2 s	Real-time Image Transmission	PSDK Supported
Storage	1280 GB	Real-time Kinematic	Supported
Power Supply	SkyPort / J30J	Intelligent Temperature Control	Supported
Power On / Off	Auto On / Off	OLED	Supported
Operating Temperature	-10℃~50℃	One Key Reset / Repaire	Supported
Humidity	95%	Firmware Upgraded	Upgrade online

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Products

SHARE 303S Pro   - Parameters

QTY of Lens	5 pcs	Material	CNC aluminum alloy
Focal Length	56 mm x 4pcs 40 mm x 1pcs	Size	200 x200 x 125 mm
Effective Pixels	61.0MP, total pixels≥305MP	Weight	≥ 1400 g
Sensor Size	Full Frame (35.7 mm x 23.8mm)	Data Reading	USB3.0 Type-C
Lens Angle	45 degree	Data Preprocessing	SHARE Data Manager
Exposure Interval	≥1.2 s	Real-time Image Transmission	PSDK Supported
Storage	1280 GB	Real-time Kinematic	Supported
Power Supply	SkyPort / J30J	Intelligent Temperature Control	Supported
Power On / Off	Auto On / Off	OLED	Supported
Operating Temperature	-10℃~50℃	One Key Reset / Repaire	Supported
Humidity	95%	Firmware Upgraded	Upgrade online

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Products

SHARE 6100 Series

Model No.	6100	6100 Pro	6100 X-port
Pixels / Lens	61.0MP	61.0MP	61.0MP
CNC housing	√	√	√
OLED screen			
Independent POS data	√	√	√
J30J Port		√	√
SkyPort	√	√	√
Compatibility	DJI M210, M300	DJI M210, M300, M600, VTOL, multi rotor	DJI M210, M300, M600,

- 61.0MP in total
- ≤ 360 g
- 40mm lens
- Full Frame

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Products

SHARE 6100 Series - Parameters

QTY of Lens	1 pcs	Material	CNC aluminum alloy
Focal Length	40mmX1	Size	136x76 x 61mm
Effective Pixels	61.0MP	Weight	≥ 360 g
Sensor Size	Full Frame (35.7 mm x 23.8mm)	Data Reading	USB3.0 Type-C
Lens Angle	Orthpgraphic	Data Preprocessing	SHARE Data Manager
Exposure Interval	≥1.2 s	Real-time Image Transmission	PSDK Supported
Storage	256 GB	Real-time Kinematic	Supported
Power Supply	SkyPort	Intelligent Temperature Control	Supported
Power On / Off	Auto On / Off	OLED	N/A
Operating Temperature	-10℃~50℃	One Key Reset / Repaire	Supported
Humidity	95%	Firmware Upgraded	Upgrade online

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Products

Efficient

Using 5-lens design makes camera can acquire bigger area than traditional way during same flying time.

High accuracy

Independent POS data in each cameras makes the RTK/PPK information accuracy in pictures under ±1cm.

Simple processing

Used with SHARE Data Manager - data preprocessing software, one key to copy / clean up data.
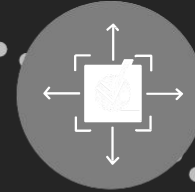
High compatibility

With high compatibility, cameras can be mounted on VTOL, multi rotor, DJI M210 RTK, M300 RTK and M600.

Advantages

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Efficient Drone Surveying

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Applications
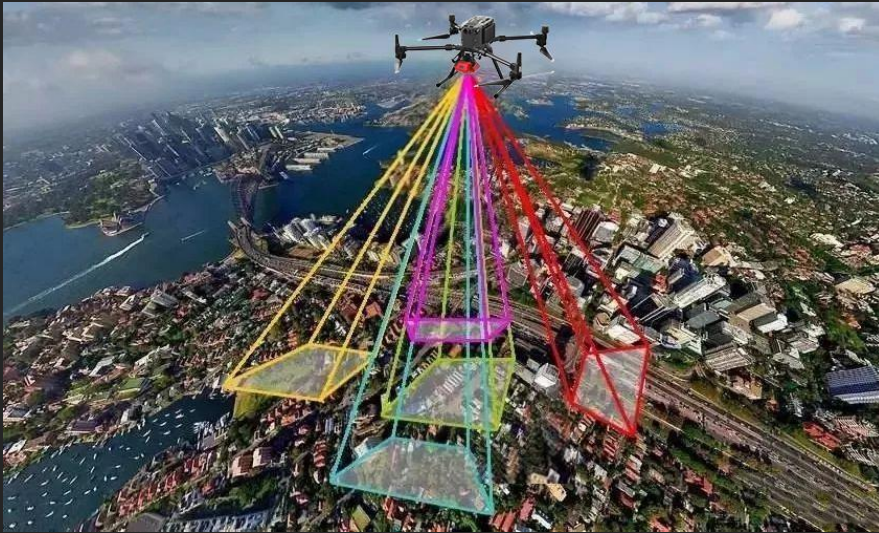
About Oblique Photogrammetry

- Oblique image is the image captured by aerial oblique camera. Oblique photogrammetry technology is a new high-tech technology developed in the international mapping & remote sensing industry.

- Oblique photogrammetry captures images from orthogonal and 4 tilted directions through multiple sensors placed on a flying platform. The process of generating 3D models using oblique photogrammetry is oblique photogrammetry modeling.

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More than efficient
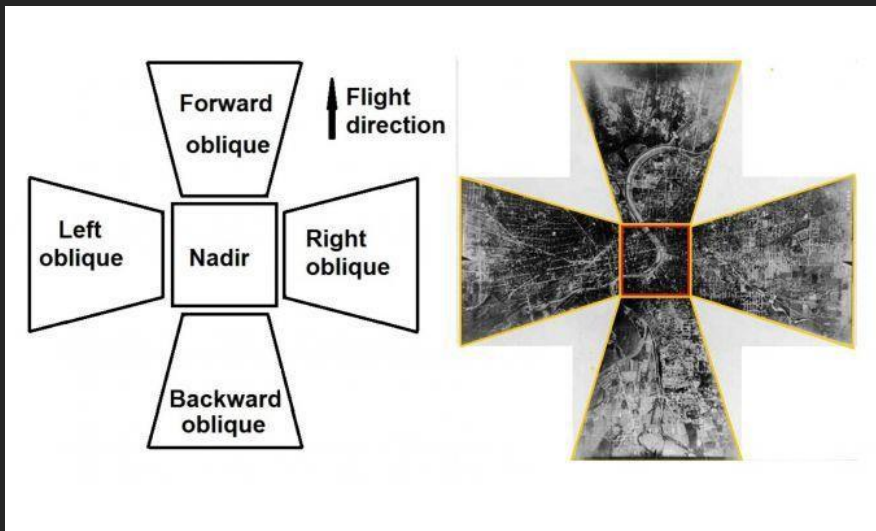
Aircraft · · · · · · · · DJI Drone   Multi rotor   VTOL

POWERED BY DJI SKYPORT

SHARE 202S   SHARE 102S

SHARE 202 Pro   SHARE 102S Pro

Oblique Photogrammetry Solution

Data Processing Software · · · · · **Data Preprocessing**   **3D Modeling**   **Data Analyzing**

Share Data Manager

DJI Terra
Smart 3D
Context Capture
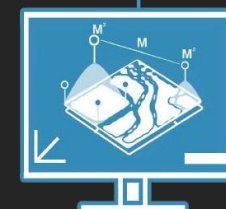
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Applications

Cadastral Surveying & Mapping
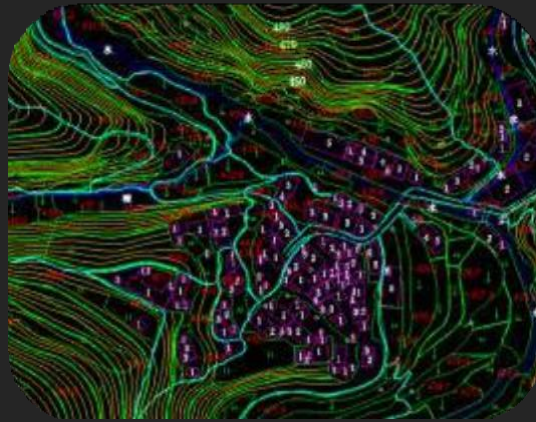
Topographic Surveying

Smart City

Construction

Public Safety

Emergency Command

River Management

Mining

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Case Study

M300 RTK + PSDK 102S V2 Oblique Photogrammetry Solution

1:500 with no GCP used, one day mapping area up to **5.3 km²**

According to 6hrs operation / day, single mapping aera, 80% x 70% to calculate *

Applicable scene (with no GCP used)	GSD (cm)	Speed (m/s)	Height (m)	Area / flights (km²)	Effective area / day (km²)
Cadastral surveying (Plane 5cm, elevation 10cm)	1.5	11.9	96	0.35	5.3
Cadastral surveying (Plane 7.5cm, elevation 15cm)	3	15	192	0.72	12.7
Cadastral surveying (Plane 10cm, elevation 20cm)	5	15	320	0.85	19.2

*The calculation of the effective area takes into account the outward expansion of the equal flight height. The calculated value of the single measurement area may be lower than the actual measurement value.

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Workflow

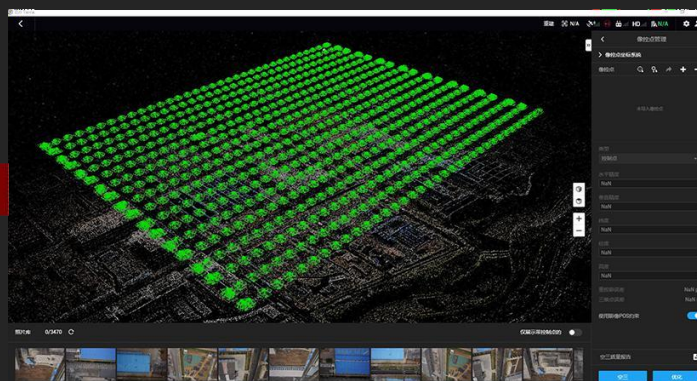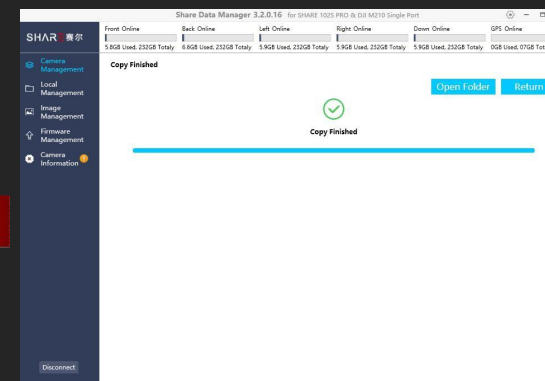Pre-surveying before flight

Set checkpoints

Create routes, flight operation, take photo

3D model reconstruction

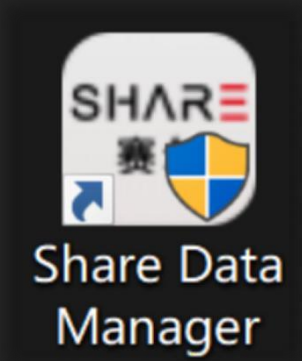Import photos to DJI Terra, run aerial triangulation calculation

Use Share Data Manager to pre-process data

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Workflow

- About Share Data Manager

Share Data
Manager

Share Data Manager is an intelligent software developed by SHARE
UAV to solve the problem of camera-computer interaction.
Only THREE steps for pre-processing all data.

One-Key
Copy Data

One-Key
Rename

One-Key
Create Engineering
Documents

One-Key
Reset Camera

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Official website   Youtube   Facebook

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