Kryptton®

KRYPTTON MEGA V8 III UAV MAPPING DRONE

Kryptton Mapping Drone

Kryptton Mapping Unmanned Aerial Vehicle

1:500 high precision multi-data acquisition system

MEGA-V8 III UAV

Kryptton Mapping Drone Dual Version

FEATURE & PARAMETERS

Positioning Accuracy
Horizontal： ±0.02m
Vertical: ±0.05m

Working Time
Equipped with tilting five cameras1.65kg ≤ 55min

Recharge Mileage
Equipped with tilting five cameras 1.65kg - 29km.

Dimensions	840mmx990mmx580mm	**Intelligent flight**	Imitation flight Pointing flight Pointing task Breakpoint continuous flight AB point takeoff and landing One button takeoff and landing One button return route Route planning Multitasking management
Aircraft wheelbase	1050mm	**Safety Protection**	Anti-magnetic interference, redundancy protection, low power return, lost connection, back-off protection
Body material	Japan T800 carbon fiber + German aviation aluminum	**Disassembly time**	Machine-free 60 seconds tool-free disassembly
Power Battery	Li-po Smart battery	**Satellite positioning**	Beidou, GPS, GLONASS; RTK Samsung Seven Frequency
Flight speed	≤ 18m/s	**Wind Resistance**	7
Working time	≤ 55min（Equipped with tilting five cameras 1.65kg）	**Positioning accuracy**	±2 cm horizontal ±5 cm vertical
Recharge Mileage	≤ 29km（Equipped with tilting five cameras 1.65kg）	**Rainproof level**	Medium rain
Flight Altitude	≤ 5800 m	**Protection**	IP6X
Flying Radius	≤ 14.4 km	**Operating Temperature**	-40 ℃ to +125 ℃
Max. Load	3kg		

KRYPTTON UAV MAPPING MODULE

The Main Parameters

GSD (CM)	Elevation (M)	Working area (Km²) Heading overlap: 75%, side overlap: 70%	Heading interval (M)	Side spacing (M)
1	55	0.522	13.3	23.9
1.5	83	0.778	19.9	35.8
2	111	1.043	26.5	47.7
3	166	1.568	39.8	71.6
4	222	2.010	53	95.4
5	277	2.501	66.3	119.3

KRYPTTON YT-5POPC IV

Sensor
5

Resolution
7952x5304

Default Focal Length
35mm

Total Pixel
1.92 a hundred million

Storage Capacity
640G

Module Weight
2.00kg

KRYPTTON TILT FIVE CAMERA MODULE RX1 VERSION

The Main Parameters

GSD (CM)	Elevation (M)	Working area (Km²) Heading overlap: 75%, side overlap: 70%	Heading interval (M)	Side spacing (M)
1	61	0.402	9	17
1.5	95	0.575	14	26
2	127	0.832	19	35
3	191	1.203	29	52
4	255	1.636	39	71
5	319	1.965	49	89

Work Efficiency

KRYPTTON YT-5POPC III

Sensor
5

Resolution
6000x4000

Default Focal Length
35mm

Total Pixel
1.20 a hundred million

Storage Capacity
320G

Module Weight
1.65kg

KRYPTTON UAV MAPPING MODULE

The Main Parameters

KRYPTTON YT-RX1

GSD (CM)	Elevation (M)	Working area (Km²) Heading overlap: 75%, side overlap: 70%	Heading interval (M)	Side spacing (M)
1	77	0.604	13	23
1.5	116	0.906	19	35
2	155	1.186	26	47
3	232	1.773	39	71
4	310	2.404	53	95
5	387	2.950	66	119

Sensor
1

Resolution
7952x5304

Default Focal Length
35mm

Total Pixel
424 a ten thousand

Storage Capacity
128G

Module Weight
1.2kg

KRYPTTON POSITIVE PHOTOGRAMMETRY MODULE

The Main Parameters

KRYPTTON YT-H300

H300 Laser Mapping Module

Maximum field of view	360°, self-adjustable
Maximum pulse emission frequency	100 kHz，self-adjustable
Ranging accuracy	15 mm （@150 m）
Ranging repeatability accuracy	10 mm（@150 m）
Maximum ranging range	250 m@60% reflectivity target 150 m@20% reflectivity target
Recommended operational altitude AGL	100 meters (@50kHz 100% laser power)
Laser level	1 Class human eye safety laser
Data storage	32G
Weight	1.71kg

Work Efficiency

Single flight time	45 min
Single flight area	1.12 square kilometers @150m hang high
Get point cloud density	40 points / square meter

KRYPTTON MAPPING UAV APPLICATION CASE

City Planning and Design Institute 1:500 cadastral topographic survey project

The HVA mapping drone MEGA platform is equipped with a tilting five camera for aerial surveying.

Range of measurement

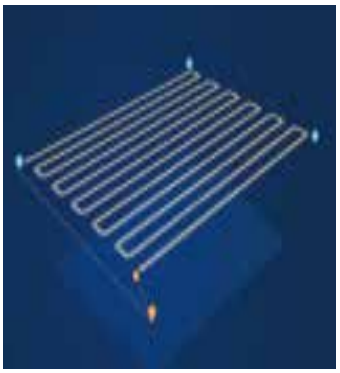
3D model diagram

1:500Line painting

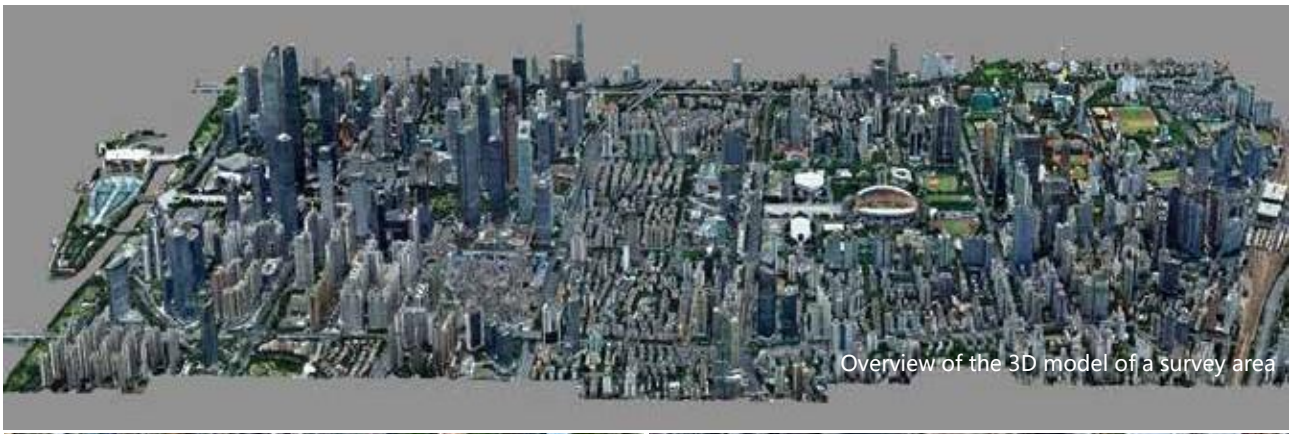
On June 25, 2018, Urban Planning and Design Institute extracted 7 (37% of total figures) 545 plane points for the 1:500 digital line topographic map of the project to check the accuracy of the point points. The error in the field measurement and statistical point point is 2.71 cm, the pass rate is 99.1%, which meets the requirements of 1:500 cadastral topographic map specifications!

KRYPTTON MAPPING UAV SYSTEM SOFT

Surveying and mapping professional control software, guided control interface, advanced flight control algorithm, intelligent generation of the best flight plan, automatic flight, intelligent operation.

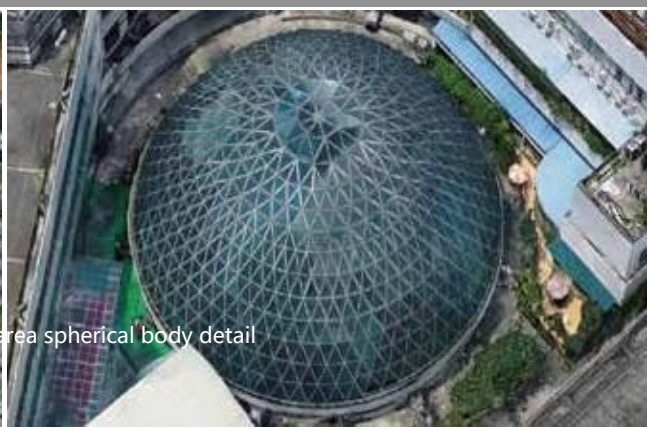


KRYPTTON MAPPING UAV SYSTEM WORK RESULTS



Overview of the 3D model of a survey area

Measuring area spherical body detail



3D model overview of densely populated areas

map

House dense ar

GLOBAL PRESENCE
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