►►► Multi-spectral Imaging

Capture Rate

Record Rate

Data Storage

Operating Temperature

Relative Humidity

max. 1 m/s (all channels) ≥30 MB/s (Micro SD card,

default 64 GB, max. 128 GB

(relative wind speed ≥1 m/s)

UHS-I Speed Class 3)

≤85%, non-condensing

-10°C ~ +50°C

	Red Edge 2: 750nm @1 Red: 660nm @20nm	5nm	
O O	Blue: 450nm @35nm		1
e e	Green: 555nm @25nm		Т
	Red Edge 1: 720nm @1	0nm	
	NIR: 840nm @35nm		
Sensor Model	Ms600	ution RCP	
Dimension	79x74x52 mm (LxWxH)	solution RGB	
	79x74x52 mm (LxWxH)275 g (DLS module excluded)	righ Resolution RGB	
Dimension	79x74x52 mm (LxWxH) 275 g (DLS module excluded) 7W nominal; 10W peak	High-Resolution RGB	
Dimension Weight	79x74x52 mm (LxWxH)275 g (DLS module excluded)	High-Resolution RGB	
Dimension Weight Power Consumption	 79x74x52 mm (LxWxH) 275 g (DLS module excluded) 7W nominal; 10W peak (DLS module included) sync radiometric calibration; realtime reflectance computation global shutter; resolution 1.2 MP; 12-bit ADC; 6 channels 		
Dimension Weight Power Consumption Sensor Feature	 79x74x52 mm (LxWxH) 275 g (DLS module excluded) 7W nominal; 10W peak (DLS module included) sync radiometric calibration; realtime reflectance computation global shutter; resolution 1.2 MP; 	High-Resolution RGB NDM	
Dimension Weight Power Consumption Sensor Feature Sensor Specification	 79x74x52 mm (LxWxH) 275 g (DLS module excluded) 7W nominal; 10W peak (DLS module included) sync radiometric calibration; realtime reflectance computation global shutter; resolution 1.2 MP; 12-bit ADC; 6 channels CMOS 1/3"; F/2.2; E 5.2mm; 		
Dimension Weight Power Consumption Sensor Feature Sensor Specification Sensor Size	 79x74x52 mm (LxWxH) 275 g (DLS module excluded) 7W nominal; 10W peak (DLS module included) sync radiometric calibration; realtime reflectance computation global shutter; resolution 1.2 MP; 12-bit ADC; 6 channels CMOS 1/3"; F/2.2; E 5.2mm; pixel 3.75um; FOV 49.6° x 38° 300-1000 nm; 17 bands; 		
Dimension Weight Power Consumption Sensor Feature Sensor Specification Sensor Size Spectral Sensitivity	79x74x52 mm (LxWxH) 275 g (DLS module excluded) 7W nominal; 10W peak (DLS module included) sync radiometric calibration; realtime reflectance computation global shutter; resolution 1.2 MP; 12-bit ADC; 6 channels CMOS 1/3"; F/2.2; E 5.2mm; pixel 3.75um; FOV 49.6° x 38° 300-1000 nm; 17 bands; PT ≥95% @OD2 sapphire glass, wear & scratch	NON	
Dimension Weight Power Consumption Sensor Feature Sensor Specification Sensor Size Spectral Sensitivity Optical Window	79x74x52 mm (LxWxH) 275 g (DLS module excluded) 7W nominal; 10W peak (DLS module included) sync radiometric calibration; realtime reflectance computation global shutter; resolution 1.2 MP; 12-bit ADC; 6 channels CMOS 1/3"; F/2.2; E 5.2mm; pixel 3.75um; FOV 49.6° x 38° 300-1000 nm; 17 bands; PT ≥95% @OD2 sapphire glass, wear & scratch resistant		
Dimension Weight Power Consumption Sensor Feature Sensor Specification Sensor Size Spectral Sensitivity Optical Window Ground Resolution	$79x74x52 \text{ mm (LxWxH)}$ $275 \text{ g (DLS module excluded)}$ $7W$ nominal; 10W peak(DLS module included)sync radiometric calibration; realtime reflectance computationglobal shutter; resolution 1.2 MP; 12-bit ADC; 6 channelsCMOS 1/3"; F/2.2; E 5.2mm; pixel 3.75um; FOV 49.6° x 38°300-1000 nm; 17 bands; PT \geq 95% @OD2sapphire glass, wear & scratch resistant8.65cm @120m AGL	NON	

SPECIFICATION

Model	Drone-eco Pro	Drone-eco			
Туре	quadcopter, X-shape body, with foldable propellers	quadcopter, H-shape body, with quick release propelle			
Control Method					
Structure	vertical take-off & landing fully integrated, assembly free quick assembly				
Diagonal Distance	716 mm	618 mm			
Dimension	564 x 564 x 360 mm (L x W x H)	450 x 424.3 x 290 mm (L x W x H)			
Weight	5.15 kg (with battery); 2.35 kg (without battery)	3.2kg (with battery); 1.7 kg (without battery)			
Payload Capacity	max. 1.4 kg	max. 0.8 kg			
Max. Take-off Weight	6.55 kg	4.0 kg			
Power Supply	Lithium polymer battery, one unit				
Battery Power	25,000 mAh, 6S, 26.1V	12,000 mAh, 6S, 26.1V			
Battery Charging Time	approx. 1.5 h (@ 15 A)	approx. 1.2 h (@ 10 A)			
Obstacle Sensing		eter-wave radar detection			
Downward Laser Ranging		e landing control			
Max. Service Ceiling					
Working Height		4000 m ASL typical 60-1000 m			
Cruising Speed		12 m/s			
eraising opeca					
Endurance	(without payload/with single lens/with 5-lens) approx. 80/70/60 min* approx. 60/50/40 min*				
C		single lens/with 5-lens)			
Effective Flight Duration	approx. 60/55/50 min*	approx. 55/50/45 min*			
Response Time		packing<3 min			
Weather Limit	beaudfort scale 6	beaudfort scale 5			
Operating Temperature		~ 50°C			
Environmental Humidity					
Ingress Protection Rating		45			
Positioning System		dancy design			
Airborne GNSS Module		ileo + Beidou tracking			
Differential Mode		S PPK			
Data Refresh Rate					
Hovering Accuracy	RTK: 100 Hz; PPK: 5/10/20 Hz optional H. 1cm+1ppm; V. 2cm+1ppm				
Positioning Accuracy		1ppm; V. 1.5cm+1ppm			
Relative Accuracy (XY/Z)		/ 1-5x GSD			
Single Flight Range	40-50 km (@ 12 m/s, with single lens)	30-36 km (@ 12 m/s, with single lens)			
Single Flight Coverage	max. 3 sq.km (@ 10 cm GSD, with S42)	max. 2.2 sq.km (@ 10 cm GSD, with S42)			
POS Data Storage		card, 16 GB			
Download Interface		o USB			
Pilot Interaction		ors & Web UI			
Remote Controller					
Datalink Mode	WiFi + type	C + BD-link			
Internet Access	WiFi + type C + RD-link via external SIM card				
Control Frequency					
Communication Channel	2.4 - 2.483 GHz				
Radio Datalink Range	≥12 5 km				
Transmitting Power					
Display Terminal	20 dBm @CE / 23 dBm @FCC				
Working Time	integrated with LED display, 7-inch, Android OS				
Hardware Option	6 - 20 h upgradeable upon request				
Payload	upgradeable	upon request			
Connectivity	tunical flam	as connector			
	typical flange connector				
Power Supply	external, supplied by drone battery				
Trigger Exposure	flight control system triggering				
Time Synchronization	POS recorded while triggering single lens, multi-lens, etc.				
Device Options					
Payload Option ①		;, 24.3 MP, 25 mm lens, 266 g			
Payload Option 2	S42, customized single lens, 42.4 MP, 40 mm, full framer, 336 g				
Payload Option ③		mm; center lens, 25 mm), 120 MP in total, 750 g			
Payload Option ④	Q51,customized 5-lens (45° lateral lens x 4, 56	mm; center lens, 40 mm), 210 MP in total, 1.2k g			

AERIAL EFFICIENCY

imaging sensor	single flight coverage (flight height & ground resolution)				
S24 (24 MP)	113 ha (@96m, 1.5cm GSD)	206 ha (@191m, 3cm GSD)	250 ha (@319m, 5cm GSD)	500 ha (@638m, 10cm GSD)	
S42 (42 MP)	140 ha (@133m, 1.5cm GSD)	263 ha (@266m, 3cm GSD)	350 ha (@444m, 5cm GSD)	600 ha (@888m, 10cm GSD)	
T53P (120 MP)	50 ha (@96m, 1.5cm GSD)	93 ha (@191m, 3cm GSD)	126 ha (@319m, 5cm GSD)	250 ha (@638m, 10cm GSD)	
Q51 (210MP)	41 ha (@126m, 1.5cm GSD)	80 ha (@253m, 3cm GSD)	116 ha (@421m, 5cm GSD)	185 ha (@843m, 10cm GSD)	

Note: the reference data shown above is computed according to the forward overlap 75%/80% (single lens/5-lens) and side overlap 60%/70% (single lens/5-lens) from approx. 45-50 min. effective flight for a survey zone with aspect ratio around 2:1 and at cruising speed of 12 m/s.

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dealer info



Hey! Take It Easy coz' Fly It Easy!

- with

FLY2MAP series Drzne-eco Pro/Drzne-eco

"Impressive is the ground control station software running on the integrated remote controller display. The survey-oriented flight plans and attentive safety control are tailor-made for drone pilots engaging in professional survey work. The well-balanced representation of aerial efficiency, mapping accuracy plus ease-of-use makes it a trustworthy UAV solution, yet it's fairly cost friendly. Believe it or not, you will find it much easier to train drone pilots than ever!" said Engr. Mayuan, a Chinese specialist dedicated to survey equipment of DED.







Drone (aerial zone)

highly integrated aircraft, assembly free and ready to use after unpacking

fully autonomous operation after proper settings, **no pilot control required**

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> direct geo-referencing with accurate POS data delivered by airborne GNSS

millimeter-wave radar that provides intelligent obstacle avoidance against flight safety

a lightweight but efficient unit that enjoys much longer endurance

a variety of payload options available for diverse needs

optimized precise landing controlle by downward laser ranging

Fly2Map Pilot (ground station software)

display interface integrated with remote controller, no tablet or laptop required for ground control

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survey-oriented flight plans specifically made for professional aerial mapping

compulsory pre-flight checklist that guarantees no improper use

one-key return-to-home command in case of emergency

auto return-to-home function enabled by challenging conditions

terrain-following option ready for rugged terrains

possible to start with last waypoint to continue the mission

progress bar that vividly illustrates flight duration and battery percentage

Fly2Map Manager & Fly2Map Cloud (process & control software)



realtime trajectory

থি maintenance memo

cloud platform control

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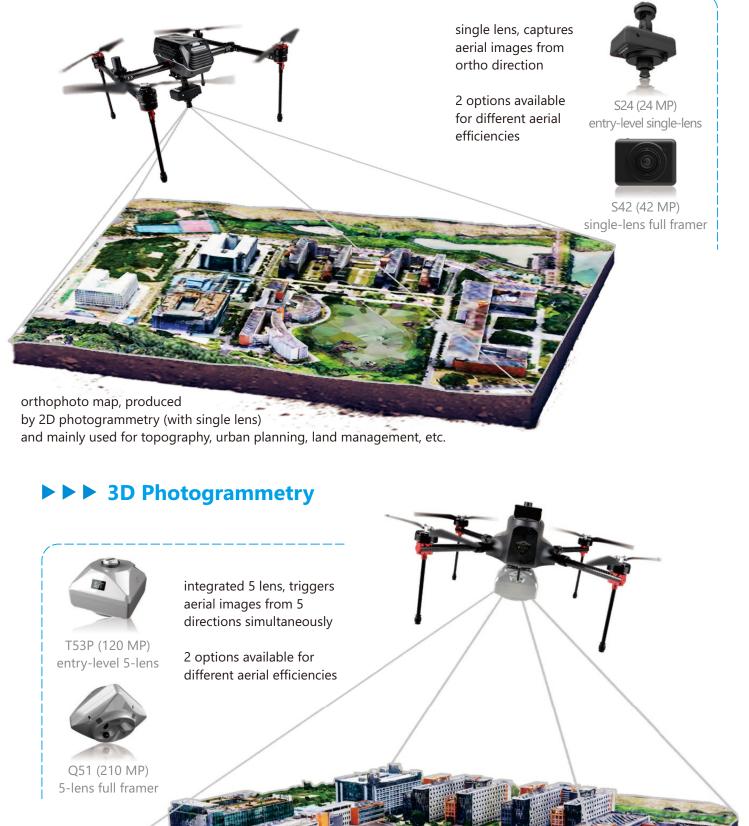
flight logs

····· Fly2Map Manager ······ :···· Fly2Map Cloud flight records user management

monitoring & statistics

customization available

D D Photogrammetry



oblique 3D model, generated by 3D photogrammetry (with multi lens) and mainly used for cadaster, smart city, civil engineering construction, etc.