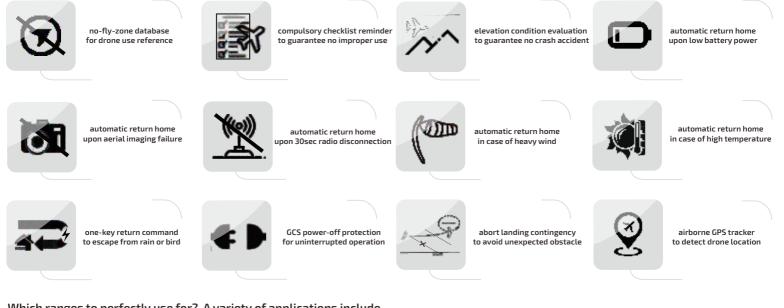


Why surveyor-oriented? FLYme is specifically made for professional aerial mapping.



Worried about drone crash or drone loss? FLYme is particularly designed for flight safety control.



Which ranges to perfectly use for? A variety of applications include...











SKYSOLUTIONS





road survey

power line inspection topographic survey

mining survey



road survey skyway generation

smart elevation partition for hilly terrain

Googelearth display of partitioned skyway

## specifications



aircraft

system

system structure wingspan packing size take-off weight propulsion system power supply battery power body material

aircraft type

model

FLYme

	fixed-wing
	modular design
	150 cm
	98 cm * 49 cm * 68 cm
	3.5 kg (including camera and drone battery)
n	1000w electric pusher motor, with 13-inch propeller
	lithium polymer battery, one unit
	7000 mAh, 6S, 22.2V
	Industrial EPO foam



operation weather limit performance

radio communication typical, 5-10 km; maximum 30 km transmitting power 0.1-2W beaudfort scale 6, 10.8-12.7 m/s operating temperature −10°C to 50°C environmental humidity 90% condensing

integrated with radio datalink device

Frequency Hopping Spread Spectrum (FHSS)

1W, 915 MHz (869 MHz or 2.4 GHz optional)

5-8 minutes

autopilot



onboard

sensor

airspeedometer	1x
accelerometer	1x
barometer	1x
magnetometer	1x
gyroscope	1x
GPS receiver	1x
airborne PPK/RTK	int
receiver	B1/

autopilot computer 1x

1x inbuilt GNSS chipset (L1/L2 GPS, L1/L2 Glonass, B1/B2 Beidou), data refresh baud rate 20 Hz



single flight range\* landing space

endurance

take-off method

landing method

working height

cruising speed\*

maximum ceiling

typical, precise parachute landing; optional, belly landing 4000 m typical 120-1400 m typical 20 m/s (72 km/h) not less than 59 minutes, best up to 90 minutes (upon customization) maximum 92 km single flight coverage\* maximum 60 sq.km (6,000 ha) @ GSD 20cm precise landing control within 6 m radius

typical, hand launch; optional, catapult launch

imagery payload

imaging sensor sensor type sensor weight resolution value focusing length E 35 mm aperture control F 2.0 image acquisition imaging resolution

Sony RX1RII Exmor R® CMOS, 2/3 full framer 35.9 x 24.0 mm 507 g (includes SD card and battery) 42.4 mpx hot shoe triggering 1.5-20 cm GSD



via logical and intuitive checklist pre-flight checks basic operations flight planning standard flight control camera triggering automated, realtime display fail-safe routines automated auto return

ground control

automatic take-off, flight, data capture and landing includes typical aerial survey programs in addition to upon indications of low battery, high temperature. heavy wind, 30sec radio disconnection and imaging failure fail-safe commands manually controlled, one-key operation APP display via pre-installed GPS tracke

drone tracking

## coverage reference

GSD	flight height	coverage per flight	coverage per day
5 cm	388 m	600 ha	2,400 ha
10 cm	776 m	1,200 ha	4,800 ha
15 cm	1164 m	1,800 ha	7,200 ha
20 cm	1552m	2,400 ha	9,600 ha

note: the data shown left is computed according to the 75%/60% (forward/side overlap) from a 60-minute effective flight for a survey zone with aspect ratio around 2:1. And the area coverage per day results from 4 flights in the same day. In theory, bigger coverage figures are expectable with rational parameter settings and increased flight arrangements.



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acquisition

performance

single point positioning\* relative accuracy (XY/Z)\*

3 cm CEP 1-3/1-5 x GSD

absolute accuracy (without GCPs)\* absolute accuracy (with GCPs)\*

horizontal, down to 3-10 cm; vertical, down to 5-15 cm horizontal, down to 1-2 cm;

vertical, down to 5-10 cm

note: all aspects marked with \* are determined by weather conditions and manual operations in practice.





