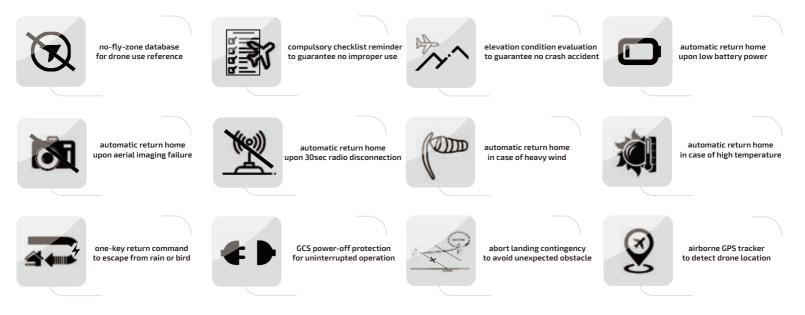


Worried about drone crash or drone loss? FLYme is particularly designed for flight safety control.



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











...





road survey

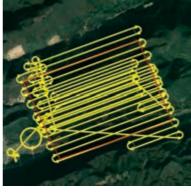
power line inspection

on topographic survey

mining survey



road survey skyway generation



smart elevation partition for hilly terrain

Googelearth display of partitioned skyway



aircraft

system

specifications

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

FLYme

model

	nxed-wing
2	modular design
	150 cm
	98 cm * 49 cm * 68 cm
	3.5 kg (including camera and drone battery)
m	1000w electric pusher motor, with 13-inch propeller
	lithium polymer battery, one unit
	7000 mAh, 65, 22.2V
	Industrial EPO foam



onboard

sensor

	airspeedometer		
	accelerometer		
N	barometer		
/	magnetometer		
	gyroscope		
	GPS receiver		
	airborne PPK/RTK		
	receiver		

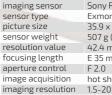
autopilot computer 1x

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

flight performance



imagery payload



pre-flight checks basic operations

flight planning

camera triggering

fail-safe routines

auto return

drone tracking

Sony RX1RII Exmor R® CMOS, 2/3 full frame 35.9 x 24.0 mm 507 g (includes SD card and battery) 42.4 mpx E 35 mm hot shoe triggering 1.5-20 cm GSD

automatic take-off, flight, data capture and landing

upon indications of low battery, high temperature, heavy wind, 30sec radio disconnection and imaging failure

APP display via pre-installed GPS tracke

includes typical aerial survey programs in addition to

via logical and intuitive checklist

standard flight control

automated

fail-safe commands manually controlled, one-key operation

automated, realtime display



positioning* 1-3/1-5 x GSD relative accuracy

3 cm CEP

horizontal, down to 3-10 cm; absolute accuracy (without GCPs)* vertical, down to 5-15 cm horizontal, down to 1-2 cm;

absolute accuracy (with GCPs)* vertical, down to 5-10 cm

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

ground control

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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operation performance

1W, 915 MHz (869 MHz or 2.4 GHz optional) 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 $\ -10\,^\circ\!\mathrm{C}$ to $50\,^\circ\!\mathrm{C}$ environmental humidity 90% condensing

integrated with radio datalink device Frequency Hopping Spread Spectrum (FHSS)

5-8 minutes

autopilot

take-off method typical, hand launch; optional, catapult launch landing method typical, precise parachute landing; optional, belly landing 4000 m maximum ceiling typical 120-1400 m working height cruising speed*

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

pre-flight setup control mode base observations radio datalink control frequency range weather limit

endurance

landing space

single point

 $(XY/Z)^*$