



Eagle Eye Mini

OM UAV Systems

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Eagle Eye is a fully autonomous Mini Unmanned Fixed Wing aircraft. It is capable of carrying a 400 Gram payload and is ideally suited for surveying work. The payload is a day still camera. Most high quality cameras are under 400 Grams. The UAV is powered by a small petrol engine. The aircraft is autonomous right from Takeoff to Landing. For ease of operation the aircraft is capable of takeoff from a very small patch and normal ground landing. The UAV airframe is made of Elasto-Polymer foam and Carbon Fiber Composites

Physical Specifications:

Wing Span	: 3000mm
Length	: 2000mm
Height	: 300mm
Flying Weight	: 3500gms
Payload	: 800gms
Propulsion	: 15cc 2-stroke Petrol Engine
Propeller	: 11x6 Fiber Reinforced Nylon

Capabilities:

- Fully Autonomous from Takeoff to Landing
- Can be programmed for 300 Waypoints/Mission Commands
- Can 'Loiter' over the subject at any waypoint
- Has Manual over ride at any stage
- Can be 'Guided' to specific location during flight by clicking over map
- Can activate/deactivate any payload from the GCS
- Auto payload activation on reaching the waypoint
- Failsafe built in. Will 'RTL' if link is lost. Will 'Land' if battery is low
- GCS switchable navigation lights

Autopilot

- Based on ARM Cortex M4 32 bit Processor @168 Mhz, running at 252 MIPS, RTOS
- MPU-6000 Invensense 3-D Six Axis, Dual Gyro+Acc
- uBlox GPS with positioning from GPSS, GLONSS, Galelio, Biedu
- Secondary GPS for backup (optional)
- HMC5883L 3-Axis Dual Magnetometer
- MS5611 High Resolution Barometer
- Onboard Micro SD card for Flight Data Logging
- RTK GPS (Optional)

Flying Characteristics:

Range	: 10 Km* *
Endurance	: 100 Mins + 20 Mins reserve for failsafe
Accuracy	: Within 10 Meters of programmed waypoint
Cruise Speed	: 48 Km/Hr
Max Speed	: 60 Km/Hr
Stall Speed	: 35 Km/Hr
Max Wind	: 20 Km/Hr
Altitude	: 3000 Meters
*Total Distance Traversed	: 48Km

Standard Pacakge

- Eagle Eye Aircraft 1 Nos
- GCS consisting of windows based palmtop
- Yagi Antenna for Data Link
- Microprocessor based battery Charger
- Radio Control Transmitter
- Mini Tool Kit
- Semi Ruggedized Carry Box

Radio Control Link

Encoding	: PPM
Modulation	: FHSS
Freq Band	: 400-455 Mhz
Max Rf Output	: 500mW
Channels	: 8
Range	: 5 Km when airborne
Display	: Back-Lit LCD panel on Tx
Battery	: Li-Poly 11.1V, 2650 mAh (10 Hrs continuous operations)

Datalink

Output Power	: 500mW
Modulation Type	: FHSS
Freq Band	: 900 Mhz (885-915 Mhz)
Range	: 10 Km (with Yagi antenna)



Eagle Eye Mini



Our other products...



Baaz Mini UAV



Guardian Civilian UAV



Guardian-Trainer



Curiosity Plus Quadcopter UAV



Kisan Crop Duster



Solo Multicopter



Surveyor-I



Pushpak Hexacopter



Kasper Autonomous 4WD Rover

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