
Surveillance and Reconnaissance Drones

Black Bee Loitering UAV System

(Similar To Israeli Firefly Drone)

With the development of technology, the smaller the UAV is, the less possible it is to be found. Therefore, a micro "Black Bee" UAV emerges from many military UAVs. With its small size, light weight, flexible mobility, and good concealment, it is widely deployed by armies worldwide

Dimensions:

Unfold diameter: 660mm
Fold diameter: 106mm
Airframe diameter: 91mm
Airframe length: 527mm

Weight:

Maximum take-off weight: 3400g
Empty weight: 1025g
Battery weight (lithium polymer): 815g
Battery weight (ternary lithium): 655g

Range:

Urban: 500m
Open: 1000m

Velocity:

Maneuvering-up to 60km/h
Dive speed-70km/h

Guidance:

Electro-optical/Man-in-the-loop

Lethality:

350gram-Omnidirectional fragmentation warhead

Endurance:

Flight duration (payload 1300g) 19 min
Flight duration (payload 1000g): 22 min

Typical Missions:

Engage enemy behind cover
Immediate situational awareness Front scouting for maneuvering force
Tactical reconnaissance (urban battlefield)

Advantages

Black Bee Unmanned (UAV)

- Day & Night operation.
- Abort & wave-off capability.
- Enables overmatch to break combat deadlock.
- Very intuitive operation: no special skills required.
- Full, safe returnability to operator up to attack command.
- Portable, durable, and rugged airframe for harsh environments.
- Single-user operation, designed for the dismounted soldier: light, small.
- Lethal effect on stationary and moving targets with or without line of sight to operator.



Coyote Unmanned (UAV)

(Similar To US Switchblade Drone)

Coyote unmanned aircraft system, which can be deployed and launched from type A sonar buoy tube or common launch tube to perform intelligence, surveillance, and reconnaissance tasks when the host maintains a safe airspace. Ideal for reconnaissance missions such as border patrol and coastguard surveillance, by an individual soldier in both plain and plateau areas.

Suitable Applications

To perform intelligence, surveillance, and reconnaissance tasks when the host maintains a safe airspace.

Dimensions

Fuselage Length:	960 mm
Wingspan:	1500 mm
Airframe Diameter:	105 mm
Airframe Length:	910 mm
Take-off Weight:	Maximum 6000 grams

Control & Transmission Range

Low-Cost Solution:	30,000 mtrs
High-Cost Solution:	100,000 mtrs

Velocity

Cruise Speed:	110 km/h
Dive Speed:	180 km/h Max.
Ceiling Attitude:	6100 mtrs
Endurance:	1 Hour

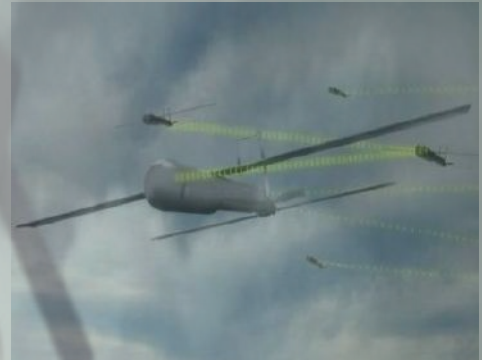
Optics

Effective Pixels:	2 Million Pixels
Minimum Illumination:	0.2Lux (day), 0.1Lux (night), 0.05Lux (DSS on)

Advantages

Coyote Unmanned (UAV)

- Deployed from the ground, air or a ship.
- Developed as a low-cost, expendable drone.
- Portable, durable and rugged airframe for harsh environments.
- The swarming capability can be applicable in multiple missions.
- Single-user operation, designed for small, expendable and tube-launched.
- Very intuitive operation up to one hour with designed for interchangeable payloads.
- Lethal effect on stationary and moving targets with or without line of sight to operator.
- Flown individually or netted together in swarms, and it is adaptable for a variety of missions, including surveillance, electronic warfare and strike



Military Nano Drone

(Similar To Black Hornet Drone)

With its unique “small” advantage, this drone is especially suitable for close-range reconnaissance of special forces, anti- terrorism, street fighting, field individual soldiers or small teams. You can intuitively feel its small size when you hold it in your hand. The fingers are about a thickness, not as long as the palm of your hand.

A Tactical Advantage

Even if it is so small, its top speed can still reach 22 kilometers per hour. / hour, remote control distance up to 2 km. At a speed of 10 meters per second, it can fly for up to 25 minutes. In addition, its noise is extremely low. At a distance of about ten meters, you can really hear its sound as only the hum of a bumblebee flying by.



Specifications

Rotor Diameter:	123 mm (4.8 in)
Body Length:	139 mm (5.4 in)
Weight:	< 35grams (1.23 oz)
Endurance:	Up to 25 minutes
Max Speed:	6.5 m/sec ground speed
Frequency:	400-5000Mhz, Details on request
Radio Range:	>2 km (1.24 mi)
Data Link:	Dynamic power, frequency hopping, beyond line-of sight Resolution
Payload:	2 EO Cameras +1 thermal Camera

Optics Horizontal Camera

Video: 1280×1024@30 fps 1280×720@30 fps
640×480@30 fps

Snapshot: 2560×1920

Optics 45° Camera

Video: 1280×1024@30 fps 1280×720@30 fps
640×480@30 fps

Snapshot: 1600×1200

Optics Thermal Camera

Video: 160×120

Snapshot: 160×120

Advantages

With its unique “small” advantage, this drone is especially suitable for close-range reconnaissance of special forces, anti- terrorism, street fighting, field individual soldiers or small teams.



Surveillance and Reconnaissance Drones

Fixed Wing Unmanned Aerial Vehicle

Featuring high reconnaissance effectiveness, high anti-jamming capability, diversified payloads, integrated reconnaissance & strike, easy operation and simple maintenance, These UAVs can be used for military operations, such as battlefield surveillance, intelligence acquisition anti-terrorism combat, no-fly zone patrol, firing calibration, data relay and electronic warfare.

Supplied To These Countries

To Saudi Arabia National Border Force, UAE PAL Security Forces, Turkey Military, Uzbekistan Military Department, Thailand Armed Forces and Thailand Ministry of Defense since 2018.

Spec 1: 30kg Payload 3 Hour Hybrid power.
Spec 2: 100kg Payload 20 Hour Hybrid power.

Flight Details

5 kg Payload: Endurance 720km, 6 hours
10kg Payload: Endurance 600km, 5 hours
20kg Payload: Endurance 480km, 4 hours
30kg Payload: Endurance 360km, 3 hours

Dimensions

Wingspan: 5.94 mtrs
Height: 980 mm
Length: 3.3 mtrs
Area: 2.3 mtr²
Flying Mode: Autonomous / Manual
Navigation: GPS / Beidou
Ceiling: 5000 mtrs
Take off Distance: <300 mtrs
Stalling Speed: 60 km/h
Oil Consumption: 7L / Hr (Cruising)
Speed: 120 km/ Hr
Landing Taxing Distance: <250 mts With Braking System Max Speed: 180 KM / Hr
Fuel Type: Standard Gas
Payload: 30 kgs

Optical / Gimbal

Visible Light Camera:
Image Sensor: 1/2 Inch Exmor R CMOS
Optical Zoom: 30 Times
Video Resolution: 1080p/59.94 1080p/50
1080p/29.97

Thermal Imaging Camera

Lens Size: 25 mm
Work Style: Uncooled Long Wave (8um-14um)
Detector Pixels: 640*480
Angle Jitter: ± 0.02°



Fixed Wing Unmanned Aerial Vehicle

100kg Payload 20 Hour Hybrid power

Featuring high reconnaissance effectiveness, high anti-jamming capability, diversified payloads, integrated reconnaissance & strike, easy operation and simple maintenance, These UAVs can be used for military operations, such as battlefield surveillance, intelligence acquisition anti- terrorism combat, no-fly zone patrol, firing calibration, data relay and electronic warfare.

Flight Details

100 kg Payload: Endurance 4000 km, 20 hours

Dimensions

Wingspan: 14.97 mtrs
Aircraft Length: 6.60 mtrs
Aircraft Height: 1.70 mtrs
Max Payload: 100 kgs
Max Take Off Weight: 500 kgs
Min Tank Capacity: 200 L (160 kgs)
Fuel Consumption: <10 L/H
Highest Altitude: 5,400 mtrs
Max Range: 4000 kms
Max Endurance: 20 Hours with Auxiliary Tank
Weight Of Empty Plane: 240 kgs
Max Speed: 220 KM/H
Cruising Speed: 200 KM/H
Stall Speed: 63 KM/H
Gust Load Speed: 166 KM/H
Short Airstrip: <100 Mtrs

Request Quotation

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