

GOVERNMENT & DEFENSE



# *BLACK HORNET*

*AIRBORNE PERSONAL RECONNAISSANCE SYSTEM*







# *A GAME CHANGER*

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The Black Hornet PRS Personal Reconnaissance System is the world's smallest operational ISR platform. Its compact, game-changing EO and IR technology bridges the gap between aerial and ground-based sensors. Black Hornet PRS arms modern warfighters with an easy to carry, truly pocket-sized solution they can deploy anywhere day or night for immediate covert situational awareness.





## *LIFE SAVING*

Troops can hold a safe position while the stealthy Black Hornet PRS takes on the mission of quietly looking for threats around corners, overhead, or beyond the next ridge. With a more comprehensive lay of the land, Black Hornet PRS lets soldiers clear access with greater confidence, maneuver with speed, and gain the high ground.



# STAY HIDDEN

Detect without being detected. Let the Black Hornet PRS be the soldier's eyes, transmitting live EO/IR video and HD still images back to the operator's safe location. Less than 33 grams and only 168 mm long, its extremely low visual and audible signatures allow covert operation and increased security, saving lives and minimizing collateral damage.



# SEE EVERY THREAT

Take command and spring the element of surprise on the enemy. Fly Black Hornet PRS around walls, hover over berms and vegetation, slip into tight enclosures, or circle above rooftops. With a ground speed of up to 6 meters/sec (20 feet/sec), the Black Hornet PRS can find and identify imminent danger fast wherever it's waiting.



# SEE WHAT'S HIDDEN

The Black Hornet PRS can access dangerous hiding places in darkened buildings, caves, and even pipes in daylight, low light, and at night ensuring detection and identification of threats while providing greater security for soldiers monitoring from a safe distance away.



# BEYOND LINE OF SIGHT

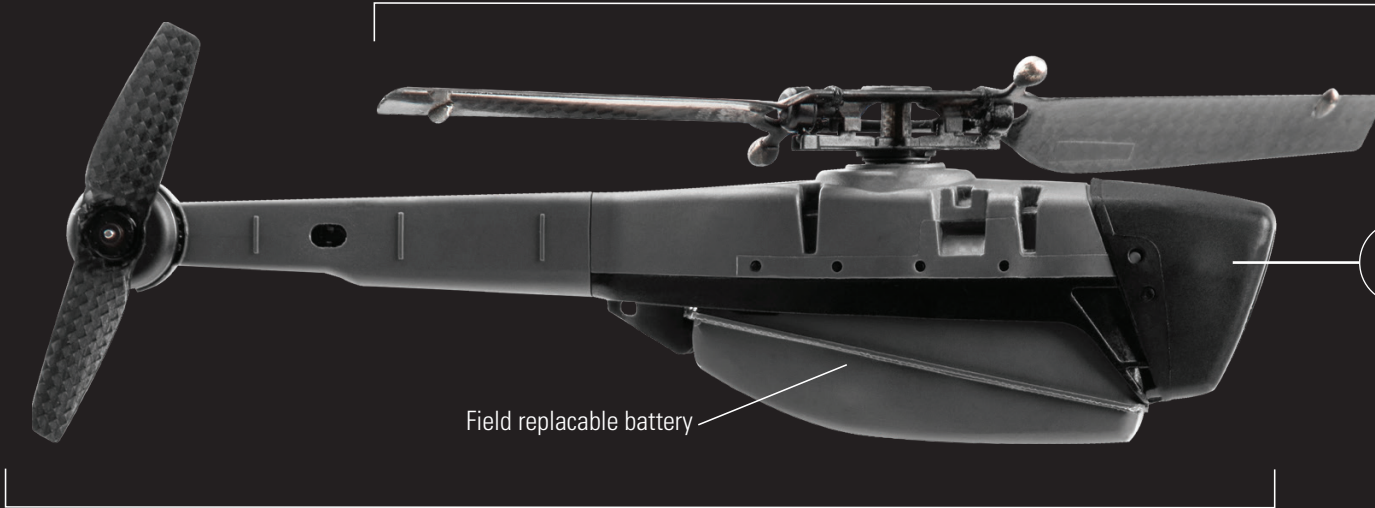
Squads need to expand their visual range, especially in complex and urban environments. With a 25-minute flight time at ranges of 2 km (1.24 miles) and speeds of 21.49 kph (13.35 mph), the Black Hornet PRS can rapidly and more safely engage targets beyond visual line-of-sight and conduct real-time weapon effectiveness assessment.





# FLIR BLACK HORNET 3 NUAV

Total Weight: 33 grams [1.16oz]



123 mm [4.8in] PAYLOAD

640x480 EO Video  
1600x1200 EO Snapshot  
Replaceable

Fused  
 160x120 TI Video  
160x120 TI Snapshot  
Replaceable

168 mm [6.6in]

## PERFORMANCE

- Up to 25 minute flight time at ranges of 2 km (miles) at speeds of 21.49 kph [13.42 mph]
- Best in class covert visual signature
- Best in class covert acoustic signature

## ENVIRONMENTAL

- 10°C to +43°C
- Can withstand winds of 15 knots and gusts of 20 knots
- 2.5 mm [.1 in]/hr (Light rain)

## NAVIGATION

- GPS and GPS Denied environments
- Indoor navigation capable

## MISSION DATA

- AES 256 encrypted Video and Snapshots Metadata
- STANAG 4609 and Cursor on Target (COT) compliant
- ATAK Compatible

## FLIGHT MODES

- Auto and Manual Hover & Stare
- Route and user selectable waypoint actions
- Automatic return
- Lost link

## DATA LINK

- 2km [1.24mi] Radio Range
- Frequency details upon request
- Encrypted, dynamic power, frequency hopping, beyond line-of-sight



## GROUND CONTROL STATION (GCS)

The GCS consists of a Base station, Controller and Display. The Base station houses two Black Hornet 3 nano UAVs and, in combination with the one-handed Controller, enables all necessary functions to plan, execute, and analyze missions. All mission data is stored on the Base station for review and sharing. Internal rechargeable batteries supply power to the external display and recharge the housed nano UAVs. FLIR offers, as standard, a high-quality and lightweight daylight readable display for the Black Hornet PRS. Other networked or integrated solutions for displaying mission data in real-time are available.



# WHAT'S IN THE KIT



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