



AIRBORNE PERSONAL RECONNAISSANCE SYSTEM (PRS) FOR DISMOUNTED SOLDIERS

# Black Hornet® PRS

The FLIR Black Hornet PRS equips the non-specialist dismounted soldier with immediate covert situational awareness (SA). Game changing EO and IR technology bridges the gap between aerial and ground-based sensors, with the same SA as a larger UAV and threat location capabilities of UGVs. Extremely light, nearly silent, and with a flight time up to 25 minutes, the combat-proven, pocket-sized Black Hornet PRS transmits live video and HD still images back to the operator.

With a less-than 33-gram UAV, GCS with integral UAV containers, Black Hornet PRS is compact and requires minimal training. An upgraded GCS features removable mission data SD cards, increased processing capability, improved user interface, robust chargers, and enhanced vision-based navigation. Imagery is transmitted through encrypted data link with ranges up to 2 km to safely engage targets beyond visual line-of-sight. The world's smallest and lightest, the proven Black Hornet PRS provides dismounted soldiers autonomous, mission-critical SA.

### **FEATURES**

## SQUAD-LEVEL IMMEDIATE SITUATIONAL AWARENESS

Save lives and minimize collateral damage. Detect and identify threats day and night without being detected. Increase speed of movement and expand maneuver options.

## NON-SPECIALIST NANO UAV SYSTEM

At 1.3 kg and small enough for a dismounted soldier to carry on a utility belt, Black Hornet PRS deploys easily, with minimal training required.

## **COVERT AIRBORNE SENSOR**

Extremely low visual and audible signatures allow covert operation and increased security for dismounted soldiers. It can operate almost anywhere any time without prior airspace coordination.\*

## BEYOND VISUAL LINE-OF-SIGHT CAPABILITY

Expand visual range in complex and urban environments. Rapidly engage targets beyond visual line-of-sight, and Conduct post strike assessment.

#### RESILIENT AND BATTLE-TESTED

Combat-proven on the battlefield by NATO forces, Black Hornet PRS is wind tolerant up to gusts of 20 knots (10 m/s) and multi-mission capable with ground speeds up to 6 m/s

### **APPLICATIONS**

**IMMEDIATE ISR** 

**COVERT OPERATIONS** 

SITUATIONAL AWARENESS

BEYOND LINE-OF-SIGHT RECONNAISSANCE

**FORCE PROTECTION** 

<sup>\*</sup>Due to its extremely small size and light weight, the UAV is regarded by several Military Aviation Authorities to expose minimal risk to other aircraft or personnel on the ground, and as such simplifies the required certification process and minimizes the need for airspace clearance to operate. This allows the user to launch a UAV immediately and operate with maximum freedom of operation. Different national rules and regulations may apply. FLIR UAS has gained approval from the US Federal Aviation Authorities to operate the Black Hornet without restrictions in CONUS (limitations apply in areas close to airports).

## SPECIFICATIONS

Rotor diameter 123 mm (4.8 in) Total length 168 mm (6.6 in) Weight < 33 grams (1.16 oz)  Signature Visual detection Best in class, details upon request Audio Best in class, details upon request  Payload Replaceable Yes Day Imager 2 EO Cameras Night Imager Fused thermal and EO with user selectable LED light  Performance Endurance Up to 25 minutes Max. speed 6 m/sec ground speed (~20 ft/sec)  Environment Temperature -10°C to +43°C Wind 15 knots/gust 20 knots Precipitation 2.5 mm (1 in)//hr (Light rain)  Data Link Frequency Details on request Radio Range 2 km (1.24 mi)  Performance Encrypted, dynamic power, frequency hopping, beyond of-sight  Resolution  EO Video 640x480 EO Snapshot 1600x1200  Thermal Imaging Video 160x120  Thermal Imaging Snapshot 160x120  Flight modes  Navigation GNSS navigation	Item	Specification
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Signature	Fotal length	168 mm (6.6 in)
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(upgrade option)	Vavigation	Vision Base Navigation for GPS-denied and indoor operation (upgrade option)
Mission Data  AES 256 encrypted Video, Snapshots, and Metadata Removeable 64 Gb SD-card for mission data AES 256 STANAG 4609 and Cursor on Target (COT) compliant ATAK Compatible Can be integrated with selected BMS	Mission Data	Removeable 64 Gb SD-card for mission data AES 256 STANAG 4609 and Cursor on Target (COT) compliant ATAK Compatible





## AMERICAS

Launch Time

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30-120 Seconds depending on launch mode

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