



**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, providing the same amount of 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 transmits live video and HD still images back to the operator.

Including a less-than 33-gram UAV and a controller with integral UAV containers, Black Hornet PRS is easy to carry and requires minimal training to operate. Using imagery transmitted through an encrypted data link with a range up to 2 km, mission squads can rapidly and safely engage targets beyond visual line-of-sight. The world's smallest and lightest UAV reconnaissance system designed for autonomous operations, Black Hornet PRS is optimal when dismounted soldiers need mission-critical SA.

### FEATURES

#### SQUAD-LEVEL IMMEDIATE COVERT 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.

#### EXTREMELY 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 real-time weapon effectiveness 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

\*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

Item	Specification
Rotor diameter	123 mm (4.8 in)
Total length	168 mm (6.6 in)
Weight	< 33 grams (1.16 oz)
<b>Signature</b>	
Visual detection	Best in class, details upon request
Audio	Best in class, details upon request
<b>Payload</b>	
Replaceable	Yes
Day Imager	2 EO Cameras
Night Imager	Fused thermal and EO
<b>Performance</b>	
Endurance	Up to 25 minutes
Max. speed	6 m/sec ground speed (~20 ft/sec)
<b>Environment</b>	
Temperature	-10°C to +43°C
Wind	15 knots/gust 20 knots
Precipitation	2.5 mm (.1 in)//hr (Light rain)
<b>Data Link</b>	
Frequency	Details on request
Radio Range	2 km (1.24 mi)
Performance	Encrypted, dynamic power, frequency hopping, beyond line-of-sight
<b>Resolution</b>	
EO Video	640x480
EO Snapshot	1600x1200
Thermal Imaging Video	160x120
Thermal Imaging Snapshot	160x120
<b>Flight modes</b>	
	Auto and Manual Hover & Stare Route and user selectable waypoint actions Automatic return Lost link
<b>Navigation</b>	
	GPS and GPS denied (Launch and Landing). Indoor capability
<b>Mission Data</b>	
	AES 256 encrypted Video, Snapshots, and Metadata STANAG 4609 and Cursor on Target (COT) compliant ATAK Compatible Can be integrated with selected BMS
<b>Launch Time</b>	
	30-120 Seconds depending on launch mode



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