PERSONAL
RECONNAISSANCE
SYSTEM
PD-100 PRS
BLACK HORNET 2

The PD-100 Personal Reconnaissance System (PRS) including the Black Hornet 2 sensor is the World’s smallest operational ISR-platform and has been used extensively on combat operations by NATO forces in recent years. The PRS is truly a pocket-sized solution for the modern warfighter and has become regarded by its users as a “Game Changer” and “Life Saver”.

The PD-100 PRS bridges the gap between aerial and ground-based sensors, significantly enhancing Situational Awareness during both dismounted and mounted operations. With a total System weight of only 1.3 kg the PD-100 PRS is compact and easily integrated with an operator’s personal equipment.

The PD-100 PRS utilizes nano sensors weighing only 18 grams, equipped with EO or EO/IR cameras. The Black Hornet 2 nano sensors are inherently safe, organic and covert, providing users with imagery day and night whilst remaining undetected.
VEHICLE RECONNAISSANCE SYSTEM

The PD Vehicle Reconnaissance System (VRS) concept is based on an adaption of the unique PD Personal Reconnaissance System (PRS) and is intended for vehicle-mounted operations. The VRS concept introduces a new dimension of integrating the controller and sensors within a vehicle’s Situational Awareness System. The VRS provides a full scope of observation from close-in to Beyond-Line-of-Sight operations. The Black Hornet nano sensors will reconnoitre a considerable distance from the operator to detect, recognize or identify pending threats before they materialize; improving Situational Awareness and enhancing Force Protection. Furthermore, the nano sensor can be launched and recovered from within the vehicle maintaining operator safety and tempo of manoeuvre.

The PD VRS bridges the gap between aerial and ground-based sensors, significantly enhancing Situational Awareness during both dismounted and mounted operations. Insignificant total System volume allows easy integrated within a vehicle.

THE VRS CONCEPT PROVIDES

• Day and night live video and snapshots
• Immediate and Inherently Safe Situational Awareness
• A platform independent and scalable solution
• Interoperability with the PD PRS
• Integration of information rather than hardware
• Very small logistical footprint
The Black Hornet 2 sensors are equipped with either EO or EO/IR cameras, providing the user with daylight/lowlight or TI/night utility. The sensors have integral cameras and weighing only 18 grams are considered inherently safe. Since the sensor poses virtually no risk to other aircraft or personnel, the Black Hornet 2 can be operated almost anywhere at any time without prior airspace coordination. The Black Hornet 2 nano sensor’s minimal audible signature and visual profile makes them virtually undetectable even from extremely short distances.
PD-100 PRS
ISR PLATFORM

CONTROLLER
The PRS Controller consists of a Base Station, Joystick Control and Display. The Base Station houses two Black Hornet 2 sensors and in combination with the one-handed joystick control enables all necessary functions to plan, execute and analyse 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 sensors. FLIR offers as standard a high-quality and lightweight daylight readable display for the PD-100 PRS. Other networked or integrated solutions for displaying mission data in real-time are available.

EXTERNAL ANTENNA
- Improving Operator Safety and Mission Success.
When connected to the PRS, this small and lightweight omni-directional antenna enhances: data link robustness, maximum operational range and System flexibility. The External Antenna is compatible with a variety of common mounting options (tripod screw-fixing, MOLLE and Velcro-style fixings).

EXTERNAL BATTERY CABLE
This cable connects the PRS to a standard BA5590/BB2590 battery to provide extended operational time and/or re-charging of the PRS internal batteries.

TACTICAL POUCH SYSTEM
This specially designed pouch system provides the operator with a variety of combinations to wear and operate the PRS, utilizing MOLLE and Velcro-style fixings.

SIMULATOR
FLIR offers a simulator add-on (compatible with VBS 3) to help fulfill the full spectrum of PRS operator training, from basic system operation procedures through to extremely realistic simulations involving the most complex and demanding scenarios. The benefits associated with simulator training are numerous, enhancing user effectiveness and saving time and costs at the same time.

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