

SPAVER[®]

IR Helmet Light Signaty[™] X



Short-range/GPS/RTC

Mesh network relay

256-bit encryption

42 patterns (up to 252)



DESIGNED AND MANUFACTURED
IN REPUBLIC OF KOREA

MIL-STD-810G



Spaver[®] Signaty[™] X

IR Helmet Light

Next-gen IFF system
developed with Korean technology



Manufacturer **PostX Co., Ltd.**

www.signaty.co.kr



Key Features



Maximum operating time
by light mode

LED
130H

IR
125H

STANDARD
MIL-STD
810G

MIL-SPEC standards

MIL-STD-810G 501.5 / 502.5

Low
-33°C

High
+63°C



Waterproof / Dustproof
Drop resistance

MIL-STD-810G 510.5 / 512.5

KS C IEC 60068-2-31

Dust
810G
510.5

Water
810G
512.5

Drop
1.5M



Encryption

256bit

Unique Features

- SWIR substitution or IR+SWIR combined use available upon request
- EEPROM supports syncing 42 strobe patterns (up to 252 with external equipment)
- Wireless sync with GPS/RTC for precise pattern synchronization
- Mesh network relay for unlimited sync range
- 256-bit encrypted data for pattern sync, independent IR/LED control
- SOS mode with LED/IR for rescue, high-intensity LED flashlight
- 4 brightness levels (10% → 30% → 60% → 100%) and pattern modes (30 BPM → 50 BPM → Double → Strobe)
- Wireless firmware updates with low voltage detection

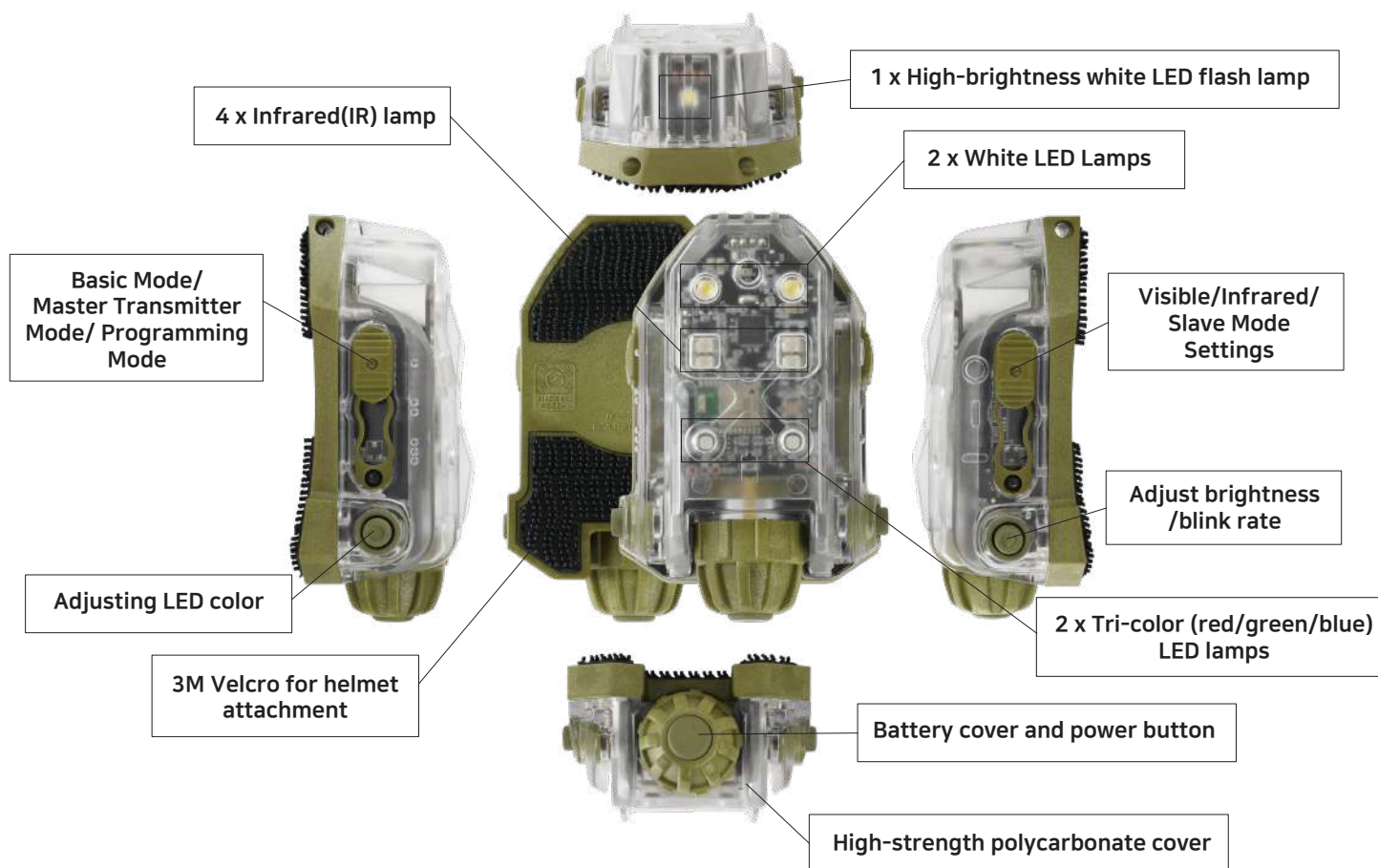
Detailed Product Specifications

- **Material** : High-strength polycarbonate dome cover
- **Pattern** : Pulse pattern input and storage (4 basic, expandable)
- **LED** : 2 x White, 2 x Tri-color (Red/Green/Blue), 4 x IR (SWIR, IR+SWIR Customizable), Total of 9 lamps including 1 x high-intensity front white LED
- **Synchronization** : IR/LED group sync, auto-sync with close-range wireless and GPS/RTC, unlimited range via mesh relay
- **Output** : 4-level visible/invisible output modes
- **Durability** : MIL-STD-810G and KORAS certified for waterproof, dustproof, temperature, and drop resistance
- **Firmware** : Wireless updates
- **Convenience** : One-hand operation, vibration feedback, low-voltage detection, SOS signaling, front flashlight
- **Operation** : 1 x AA battery (In standard mode, 130 hrs for LED, 125 hrs for IR, 40 hrs at max brightness)
- **Program Mode** : ON/OFF cycle with 100ms resolution, stores 42 data points (expandable to 252)
- **GPS** : GPS/RTC for precise pulse synchronization
- **Encryption** : 256-bit encrypted data transmission

Product Test Results

- **Brightness & Duration** : LED 130 hours, IR 125 hours (Self-tested, Up to 40 hours at maximum)
- **Drop Test** : KS C IEC 60068-2-31 (1.5 m)
- **Detection Range** : Up to 5 km (based on visible light: Self-tested)
- **Waterproofing** : MIL-STD-810G:2008 Method 512.5 (10 m for 1 hour) KS C IEC 60529:2013 (10 m for 1 hour)
- **Dust Resistance** : MIL-STD-810G:2008 Method 510.5 Procedure I
- **Sand Resistance** : MIL-STD-810G:2008 Method 510.5 Procedure II
- **Operating Temperature** : MIL-STD-810G Method 502.5 Procedure II (-32°C to 23°C) / MIL-STD-810G Method 501.5 Procedure II (23°C to 43°C)
- **Low/High Temperature** : MIL-STD-810G Method 502.5 Procedure I (-33°C to 23°C) / MIL-STD-810G Method 501.5 Procedure I (23°C to 63°C)
- **KC Certification** : Certificate of Conformity for Broadcasting and Communication Equipment (BO5R392-2112B)

Functions



Specifications

Product	Spaver Signaty X IR Light (SPY-IRGB10)
Size/Weight	Approx. 90 x 34 x 59mm, 109g (including AA battery, Molle mounting adapter)
LED	White x 2, Tri-color (Red/Green/Blue) x 2, IR x 4, High Intensity White x 1
Material	High-strength polycarbonate and more
Color	BLACK / COYOTE / OD (Custom Available)

Spaver[®] Signaty[™] X[®] IR Helmet Light

Spaver and Signaty are registered trademarks or trademarks pending registration of PostX Co., Ltd. All rights to these trademarks are reserved by PostX Co., Ltd., and any unauthorized use, reproduction, or modification is strictly prohibited. Infringement of trademark rights may result in legal liability under applicable laws.



IR Helmet Light Signaty[™] X SPY-IRGB10



Components



**Main Unit
+ AA Battery**



**MOLLE
Mounting Adapter**



Molle Pouch

