

IS Falcon 42X



Tactical Night Vision Binocular

Beyond the Edge of Sight.

IS FALCON 42X Twin-tube modular-configured night vision binocular utilizing ambient starlight or moonlight for night-time visibility, delivering a sweeping 42° wide-angle FOV for total situational awareness across land, sea, and sky. Designed for elite operations, it's built from aluminum alloy to endure the most unforgiving environments. With advanced Auto-gating technology, it adapts instantly to shifting light conditions, ensuring optimal performance at every turn.

IS Falcon 42X is ready for missions that begin where ordinary vision ends.

Image Intensifier Tube

| | |
|--|--|
| Model | PHOTONIS 4G |
| Technology | Auto-gating Auto Brightness Control Bright Source Protection |
| MTBF | 10,000 hrs |
| Tube resolution | 64 lp/mm |
| High Light Resolution | 50 lp/mm |
| Halo | 0.95 mm |
| Gain 2.10^{-5} lx at typical | 7,000 cd/m ² /lx |
| FOM | Minimum 1800 |
| Signal to noise | Minimum 26 |
| Output: | Black & White |

Its integrated infrared illuminator allows map reading and object identification in pitch-black environments. Whether for law enforcement military missions, delivers exceptional situational awareness without compromise.

Optical Parameters

- Magnification 1x
- Field of View 42°
- Diopter Adjustment -6 to +5
- Focus Range 20 cm to ∞
- IR illuminator YES

Electrical Specification

- Battery Type 2x AA (1.5V)
- Battery Life >45h (Lithium)
>24h (Alkaline)
- Battery Indicator

IS Falcon 42X

Detection Range

| | |
|----------------|--|
| <i>Human</i> | Clear Starlight: >170 m Full Moon: >300 m |
| <i>Vehicle</i> | Clear Starlight: >400 m Full Moon: >700 m |

Physical Characteristic

- Size 160 x 100 x 80 mm
- Weight (mono with battery) <300g
- Weight (bino with battery) <650 g

Environmental Characteristic

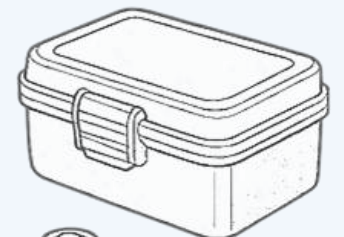
| | |
|-----------------------|-------------------------|
| Standard | MIL -STD-810G |
| Water resistance | 20 meter for 60 minutes |
| Operation Temperature | - 45° to 50° |
| Storage Temperature | - 45° to 60° |



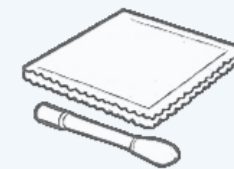
Carrying bag with strap



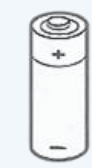
Eye Guard



Storage Case



Lens cleaning set



Battery

Standard Accessories

- 1x Carrying bag with strap
- 2x Objective lens cover
- 2x Eye guard
- 1x Storage case
- 1x Lens cleaning set
- 2x AA battery
- 1x Operation Manual
- 1x Spare Parts Manual
- 1 x Picatinny Mount
- 1 x Helmet Mount
- 1 x Counter Weight

Mounting & Integration

MIL-STD-1913 Picatinny Rail systems, featuring a side-flip mounting adapter that allows for quick repositioning without interfering with other rail-mounted equipment.

◊ Helmet mount integration

The IS Falcon 42X features seamless helmet mount integration with automatic power-on when attached and automatic shutdown when flipped up or removed, operated via a built-in magnetic switch mechanism.

◊ Monocular - Binocular Design

Designed with a modular configuration, the IS Falcon 50X consists of two independent monocular units that can be combined for binocular use or deployed separately as standalone devices, ensuring operational flexibility in all mission environments.