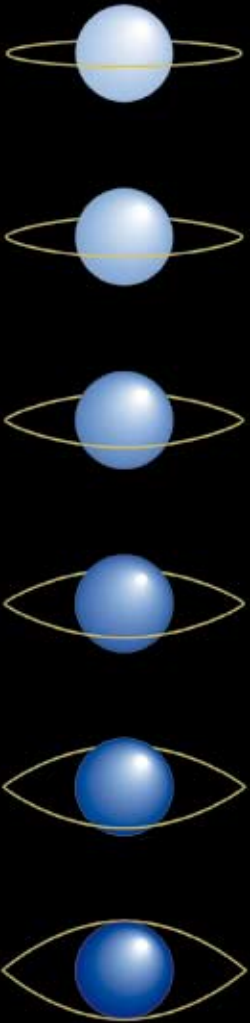




FELIS

51° Night Vision Goggles





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Description

FELIS is the newest product in OIP Sensor Systems' wide range of portable night vision devices. FELIS is an ultra lightweight intelligent passive night vision goggle using unique design features. It can be used as a handheld observation system or as face mask or helmet mount goggles. FELIS features a 51° Field-of-View, an integrated light sensor and programmable logic. The system was designed to integrate the latest technology image intensifier tubes.

Concept

FELIS combines an extreme ergonomic design with the highest quality standards. It was designed especially to enhance user comfort, ease of use and reliability. FELIS consists of a fiber-enforced plastic moulding resisting the most severe conditions. The ON/OFF/IR controls are done by integrated push buttons. Enhanced optics offer a high resolution 51° Field-of-View offering the user a comfortable vision reducing the tunnel effect. FELIS was designed to protect both the system and the user from sudden high light levels and detectability. A light sensor switches off the goggles automatically when submitted to high light levels and switches on again automatically when the light returns to acceptable light levels ; the user is protected from being detected by the flip-up/switch-off feature when mounted on face mask or helmet mount and by the in-eyepiece IR Led On indicator. The external surface of the system is made of IR stealth black material.

The system is programmable according to the customer's requirements e.g. delay and light level for automatic switch off, warning type and time before switch off, pressure time for the push buttons, ... An integrated (optional) manual or automatic gain control feature is also available.

Features

- 51° Field-of-View
- Ergonomic design
- Enhanced comfort and ease of operation
- Enhanced, low-distortion optics
- Integrated light sensor
- Programmable logic
- Ultra lightweight, compact & robust
- Built-in IR illuminator
- IR stealth black material
- Flip up / switch off capability
- Adjustable interpupillary distance
- IR LED ON / Battery-low indicator
- Operation under severe conditions
- High performance
- High reliability

Options

- Face mask
- Helmet mount
- 3x add-on objective
- 4x add-on objective
- Sacrificial window
- Demist filters
- Carry bag and transport case
- Adjustable gain

Quality

The quality management system applied by OIP Sensor Systems for design, development and manufacturing of opto-electronic systems, is compliant with and includes the requirements of ISO 9001:2000, AQAP-2110 Ed.2, ECSS-Q-20A and has been certified by the British Standard Institute under certificate N° FM 80768.

FELIS is a genus of cats in the family Felidae

TECHNICAL SPECIFICATIONS

Optical

Magnification	: 1x
Magnification with add-on lens	: 3x / 4x
Field-of-View	: 51°
Focus range	: 20 mm to ∞
Diopter setting range	: -6 to +2
Interpupillary distance	: 53-70 mm
Optical eye relief	: ≥ 23 mm @ 51° FOV
IR-LED	incorporated
Light sensor	incorporated

Mechanical

Weight (excl. batteries & accessories):	≤ 505 gr
Dimensions (L x H x W):	160 x 80 x 122 mm

Power

Battery type/life	1 standard AA size
(at +20°C)	Alkaline: ≥ 48 hours
	Rechargeable NiMh: ≥ 25 hrs

Polarisation protected	
Battery-low indicator in eyepiece	

General

Environmentals	: MIL-STD-810F
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Data are for information only and can be subject to change without prior notice

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