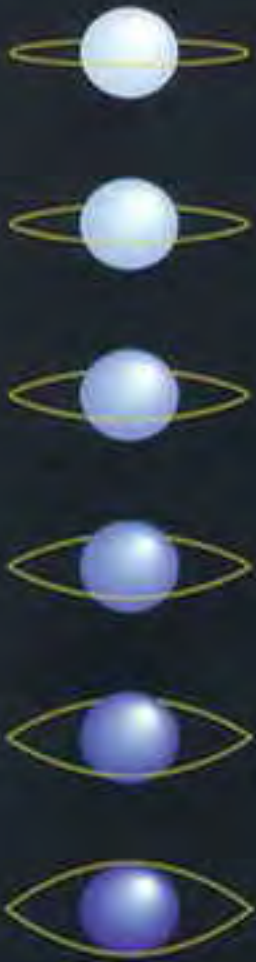


HELIMUN

Helicopter pilots Night Vision System





HELIMUN

Helicopter pilots Night Vision System

HELIMUN is a high performance stereoscopic Night Vision System for helicopter pilots, available with 40° and unique 60° field of view.

New Design

HELIMUN has been specifically designed to fit easily onto a pilot's helmet.

Principal enhancements are the new XD-4 Image Intensifiers, individual interpupillary adjustment, larger eye relief and exit pupil, and a newly designed power module that is built onto the back of the helmet to increase the user's comfort. The mounting of HELIMUN can be easily adapted to fit all kinds of pilots' helmets.

New Image Intensifiers

The new XD-4 image intensifiers provide a high resolution image. In addition, these new image intensifiers have higher photocathode sensitivity, signal-to-noise ratio, a more stringent blemish specification and a higher burn-in resistance compared to standard intensifiers.

Exceptional performance

HELIMUN provides a very high image quality over a much greater range of eye positions than the standard 15 mm eye relief eyepieces, ensuring that all users have the full field of view (40° or 60°).

HELIMUN greatly simplifies the task of centering an eyepiece directly in front of each eye. Further, the new mechanism reduces monocular wobble.

FEATURES

- Very high image quality
- 40 or 60° Field of View
- Increased comfort
- Large eye relief and exit pupil eyepieces
- Individual interpupillary distance adjustment
- New power module on the back of the helmet with back-up batteries
- Minus Blue filters for cockpit lighting compatibility
- Low distortion optics
- Adaptable to all pilots' helmets

Quality

The quality system applied by OIP for development and production is in accordance with NATO AQAP-110 and ISO-9001 directives.

TECHNICAL SPECIFICATIONS

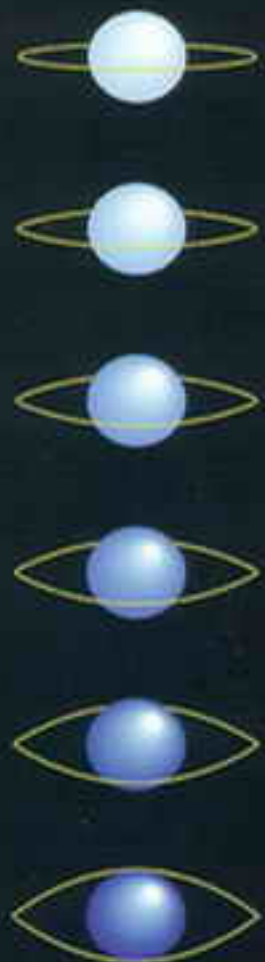
	40° FOV
Magnification	1x
Field of View	40°
Resolution (cycles)	5.08 mrad/p
Optics adjustment	-5 to +2 dioptre
Interpupillary adjustment	52 to 70 mm
TR adjustment	max 10°
Exit pupil	10 mm
Eye relief	25 mm
Field of regard	25 cm to ∞
Eye FOV	unrestricted
Minus Blue filter	standard
Flip-Up/Flip-Down	standard
Weight (incl. battery pack)	4.5 kg
Battery type/No	2 pieces AA (size 4) and 4 set of back-up batteries
Environmental	MIL-STD-883C MIL-STD-883D

MAIL TO: POST-VERKAUFSDIENST DER OIP AG, D-30634 HANNOVER 30, GERMANY



LORIS

Monocular Night Vision Devices





LORIS

Monocular Night Vision Devices

Description

LORIS is a family of high performance monocular night vision devices to be used as handheld observation systems or as mono or stereo goggles on a face mask or helmet mount. LORIS is available with integrated batteries or with a remote battery pack used as counter balance on the back of the face mask or helmet mount. Enhanced optics permit future integration of latest technology image intensifier tubes.

Configuration

LORIS consists of :

- a fiber-reinforced plastic moulding containing :
 - an ANVIS-type GEN2, SuperGen, GEN3 or XD-4th Image Intensifier Tube
 - a 1x magnifying focusable objective, with protective cover and day-training filter
 - an eyepiece with dioptre setting indications, eyeguard (with demist filter) and a combined in-eyepiece IR-LED-ON and battery-low indicator
 - integrated batteries (for the handheld monocular system)
- a remote battery pack (for the face mask or helmet mount system)
- a flip up / switch off module

Accessories & options

A variety of accessories and options to the LORIS is available :

- 60° FOV optics
- 4x magnifying add-on objective
- Face mask (mono or stereo)
- Helmet mount (mono or stereo)
- Laser filter
- Sacrificial window
- Minus blue filter (cockpit and instrument panel lighting compatible)
- Carry bag
- Transport case

FEATURES

- Enhanced comfort
- Increased resolution
- Enhanced, low-distortion optics
- Lightweight
- Compact & robust
- Built-in IR illuminator
- Ergonomic OFF/ON/IR rotary switch
- IR switch protected against accidental activation
- Monocular (left or right eye) or binocular
- Flip up / switch off capability
- Dioptre setting indications
- Adjustable interpupillary distance (binocular)
- Ease of operation
- IR LED ON / Battery-low indicator
- Operation under severe conditions
- High performance
- Low life cycle cost
- High reliability
- High MTBF

Quality

The quality system applied by OIP for development and production is in accordance with NATO AQAP-110 and ISO-9001 directives.



TECHNICAL SPECIFICATIONS

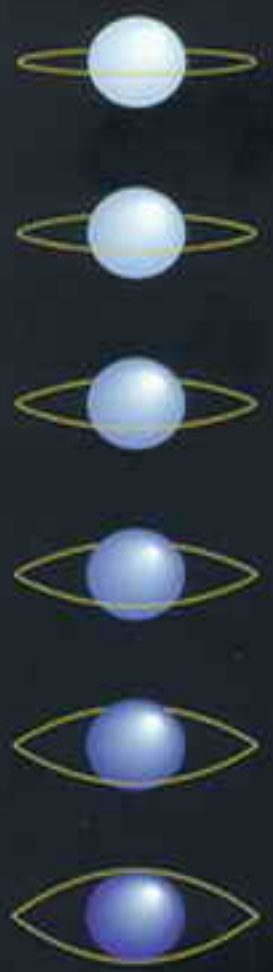
Sight			
Magnification		1x	
Field of View (FOV)	40° (optics 60°)		
Focusing range	25 cm to ∞		
Resolution (typical)	< 0.6 mrad/cp		
Eye piece / eye relief	30 mm / 25 mm		
IR-LED	incorporated		
Dioptre adjustment		-6 to +2	
Battery type/s	3 standard AA cells		
(at = 20°C)	Alkaline : 3 150 hours		
	NiCd : Continuous 3 00 hours		
Weight (exc. battery pack)		1 300 g	
Dimensions (L x H x W) in mm		115 x 85 x 48	
Face mask / helmet mount			
Sight position		movable at 1 mm	
Interpupillary adjustment		30 to 76 mm (stereo system)	
Flip-up / switch off		yes	
General			
Environmental		MIL-STD-883C	

Prices are for reference only and can be subject to change without prior notice.

Loris is a small arboreal, nocturnal animal with large eyes. It can move and climb very quickly.

LUNOS

Lightweight Universal Night Observation System





LUNOS

Lightweight Universal Night Observation System

Versatile family concept

The LUNOS system is a versatile set of night vision equipments that perfectly matches your mission requirements and that gives an answer to the logistic needs.

The LUNOS passive night vision family consists of a binocular body, several objectives with different magnification factors (1x, 4x and 6x) and a number of options, such as face mask, grip, monopod and reticle.

Flexibility

Unlike other systems the LUNOS system allows exchange of objectives on the spot in the field. Switching from one objective lens to another is comparable with changing the lenses of a photo camera. The concept allows to change in the field, within one minute, from lightweight mask mounted hands-free night driving goggles to medium or long range, tripod mounted observation binoculars. The family concept is open ended by nature because of its modular approach. Later extensions to the family can easily be integrated. LUNOS can be fitted with GEN2, SuperGEN, GEN3 or XD-4™ Image Intensifier Tubes.

Applications

OIP's LUNOS system offers the universal solution to observation:

- in progress (LUNOS 1x)
- at intermediate distance (LUNOS 4x)
- at long distance (LUNOS 6x)
- handheld rapid observation (Lunos 1x & 4x)

FEATURES

- Light weight
- Modular design (interchangeable objectives)
- In the field exchange
- No image blooming
- Little or no image smear
- Fast speed lens for LUNOS 1x system
- Fast speed mirror objective for LUNOS 4x and LUNOS 6x systems
- Built-in IR illuminator
- Operational under severe conditions

Options

- Face Mask
- Grip
- Monopod
- Reticle for LUNOS 6x
- Carry bag and transport case

Quality

The quality system applied by OIP for development and production is in accordance with NATO AQAP-110 and ISO-9001 directives.



TECHNICAL SPECIFICATIONS

	LUNOS 1x	LUNOS 4x	LUNOS 6x
Magnification	1x	4x	6x
Field of View	80°	10°	6.5°
Relative aperture	f1.1	f1.2	f1.5
Weight ¹⁾	570 g*	1.000 g	1.100 g*
Dimensions (LxHxW in mm)	100 x 220 x 121	200 x 104 x 130	300 x 150 x 130
Resolution (typical)	0.06 mm/line	0.25 mm/line	0.16 mm/line
Batteries	standard AA cells, 2x 1.5V		

All elements of the LUNOS system qualify for mechanical and environmental test according to military requirements.

* Without face mask assembly (which weighs approx. 250 g)

** Without handle

Only use for information only and may be subject to change without prior notice.