

K O F L A R

N I G H T S Y S T E M S

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Night Vision Goggles KOF-1

The KOF-1 night vision goggle series has been proven in deployments in conflict zones and by peacekeepers around the world. The model contains an advanced generation 2+ or 3 image intensifier tube with minimum FOM at 1700 for gen 3 or more, according to customer preference.

The KOF-1 series goggles are among the smallest and lightest products of their kind. Each model can be handheld, head or helmet mounted. Optional lens attachments turn either model into a 3x or 5x long range night vision binocular.

Capable of operating for extended periods on either a single AA or CR123 battery and delivered with a built-in auto off function, the KOF-1 is packed with industry-leading features such as the auto off function that can be made according to customer preferences.

- Image Intensifier Tube – super 2 and 3 Generation, power supply with built-in bright flash protection
- Manuel gain control can be made according to customer preference
- Operating mode switch and batteries compartment cover are easy to use even when operated with gloves
- Angle of IR illumination totally assures field of view illumination uniformity (controlled at the assembling)
- The housing is performed as corrosion-proof
- "Low battery" and "IR-on" indicators are displayed in the user's field of view
- Green phosphor
- Waterproof
- Helmet and/or head mounted as per user preference
- Auto on/off when raised and lowered according to customer preference
- Autogating can be made according to customer preference
- Made in Denmark



The head mount assembly allows to adjust goggles over eyes and flip up/down design makes it possible to set goggles in a vertical position

The high quality 3x and 5x screw on objective lenses, filled with nitrogen can be replaced in field conditions



5x objective



3x objective



3x afocal lens

Your Eyes In The Night

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NIGHT SYSTEMS



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KOF-1	With 1x objective	With 3x objective	With 5x objective
Magnification	1	3	5
Angular field of view, degree	40±2	12,4±0,6	8,0±0,4
Focus range, m	0,25 to infinity	10 to infinity	
Diopter Adjustment	-6 to +5		
Output pupil diameter, mm	15		
Output pupil relief, mm	15		
Interpupillary adjustment, mm	57 - 72		
Supply voltage, V	two universal AA batteries		
Active performance period with/ without IR illumination, min, hours	40/80		
Dimensions, mm	183x132x58	250x132xØ60	234x132xØ84
Weight without batteries, g	500	700	760
Operating Temperature	-40 to +55 °C	-40 to +55 °C	-40 to +55 °C
Shock resistance	5g		
Immersion 0,5m	30 minutes		
Relative Humidity at 28°C	98%		
MIL-STD-810	Yes	Yes	Yes

IIT Parameters		
Generation	2+	3
Resolution, lp/mm, min	51-57	Minimum 64
Signal to noise, min	20-22	22-30
Integral sensitivity, mkA/mm, min	500-550	Minimum 1800
Operating resource, hours	10000	15000

ITT Datasheet Example

Technical characteristics	S	Measured
Useful diameter, mm	17,5	
Photocathode type	GaAs	
Material of output window	FOE, inverting, concave, R=40 mm	
Phosphor	P-43 (also available in P-22)	
Limiting resolution lp/mm	minimum 67	69
Luminous, µA/lm	Minimum 1900	2000
Radiant (λ =850 nm), mA/W, min	180	210
Gain, lm/lm	Minimum 55.000	65.000
Screen brightness control, cd/m²	2-17*	6.5
Halo, mm, Max	1.0	0.9
Signal to noise ratio at 108 µlx	Minimum 25	29.6
EBI, µlx, Max	0.25	0.15
Input current, mA	16-20	
Input voltage, V	2,0x3,6	
Weight, g, max	85	85
MTTF, h	15.000	
FOV cleanness		In accordance with table 2

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