



Dual Tube Night Vision Goggles (coupled MNV-K-3/1^x-HR)



Dual Tube Night Vision Goggles (coupled Night Vision Monocular MNV-K-3/1^x-HR) is the top line model equipped with Gen. 3 Image Intensifier Tube with available FOM ranging from FOM 1600 up to FOM 2100, auto-gating and Black&White output options to provide extremely clear images under the most challenging conditions.

This unit can be easily detached from the bridge mount to create two separate night vision monoculars that can be hand-held, weapons, camera and/or video adapted.

Versatility, extreme tube quality, ease of use, small size and weight, durability and reliability make this device the best choice for a professional user.

FEATURES:

- Third generation Image Intensifier Tube
- Easy to operate in gloves or mittens
- Quality IR illumination covering entire field of view
- Corrosion-proof and water-proof design
- "Low battery" and "IR-ON" indicators
- Manual or auto gain control
- Multifunctional: hand-held, head-mounted or helmet mounted as dual tube binocular or separated as individual monoculars that could be weapon mounted as a night scope

OPTIONS:

- Available Figure of Merit:
FOM 1600; FOM 1800; FOM 2000; FOM 2100
- Auto-gating Power Supply Unit that improves image quality under dynamic lighting conditions.
- Auto or Manual gain control that enables the user to increase or decrease image tube brightness for greater viewing contrast in varying light conditions.
- Auto off function when flipped-up extends battery life and provides greater concealment and lower detection capability by eliminating greenish or white gleam on the operator's face.
- Black & White output option provides more natural (compared to Green) and clearer information about the contrast, shapes and shadows.



Dual Tube Night Vision Goggles (coupled MNV-K-3/I^x-HR)

Optical parameters

Magnification		1 ^x
Field of view		40±2°
Focus range, m		0,25 to infinity
Diopter Adjustment		from (-6) to (+2)
Exit pupil, mm		20
Eye relief, mm		25
Interpupillary adjustment, mm		57 ÷ 72

Electrical parameters

Supply voltage, V		1,5 – 3
Battery type		one element AA or CR123
Battery life without IR illumination, hours	Cr123	80
	AA	40
Battery life with IR illumination, hours	CR 123	40
	AA	20

Physical characteristics

Dimensions, mm	coupled MNV-K-3/I ^x HR	126 × 168 × 84
	single MNV-K-3/I ^x HR	126 × 49 × 70
Weight without batteries, g	coupled MNV-K-3/I ^x HR	685
	single MNV-K-3/I ^x HR	300

Parameters of Image Intensifier Tube

Generation		III (GaAs)
Figure Of Merit (FOM) FOM = SNR × Resolution		1600; 1800; 2000, 2100
Resolution, lp/mm, min		64
Signal-to-Noise ratio		24
Gain		Manual or Auto
Auto-gating		Auto-gated or Non-gated
Output color (phosphor type)		Green (P43) or Black & White (P45)
MTBF, hours		10000 min

STANDARD DELIVERY SET:

- . Night Vision Monocular MNV-K-3/I^xHR – 2 pcs
- . Bridge mount – 1 pcs
- . Helmet mount assembly – 1 pcs
- . Carrying bag – 1 pcs
- . Lens paper – 2 pcs
- . Operator's manual – 1 pcs
- . IIT Certificate – 1 pcs

OPTIONAL ACCESSORIES:

- . Weapon mount
- . Adapter for photo/video cameras
- . Head mount assembly
- . Demist shield
- . Sacrificial window
- . Swing arm mount
- . Protection from continuous exposure to bright light («auto-off» at E>40lx, exposure time > 60 sec)
- . Hard Case

AMBIENT CONDITIONS:

- . Operating Temperature Range: from (-50)°C to (+55)°C
- . Relative Humidity at 25°C – 98%
- . Shock resistance 5g
- . Water Immersion 2,0 m / 2 hours