NIGHT VISION GOGGLES

ONV-IR

Head mount assembly allows to adjust the goggles over eyes and flip up/down design enables to set the device in a vertical position

- Equipped with 2+ SuperGen or 3 Gen Image Intensifier Tube, power supply with built-in bright flash protection
- On request NVD can be equipped with the Autogating Power Supply Unit that enables the use of the device at relatively high light levels without system turn off
- External adjustment gain control option for more comfortable observation
- Operating mode switch and batteries compartment cover are easy to use even when operating in gloves
- Angle of IR illumination totally assures field of view illumination uniformity (controlled at the assembling)
- Corrosion-proof and water-proof design

NIGHT VISION GOGGLES ONV-IR is a high quality commercial night vision unit. The goggles of ONV-IR series are equipped with 2+ Supergen or 3 Gen image intensifier tubes produced by JSC "Katod". These premium Night Vision Goggles are enhanced with external gain control option.

Each unit is equipped with gain control knob enabling the user to adjust the tube brightness (gain) fore more comfortable observation in accordance with personal preferences.

Among the main advantages of these goggles are: light weight, good resistance to external actions and full list of accessories.

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DARKNESS. PROFESSIONAL APPROACH.

Quality management system
GOST ISO 9001-2008
GOST RV 15.002-2003, AQAP 2110

3ˣ objective	5ˣ objective	3ˣ afocal attachment lens

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

Easily snaps on to the objective lens and provids 3x magnification.

ONV-IR type	ONV-IR with 1ˣ objective	ONV-IR with 3ˣ objective	ONV-IR with 5ˣ objective
Optical parameters			
Identification range of human body*, m	220-240	320-350	450-500
Magnification	1	3	5
Angular field of view, degree	40±2	12,4±0,6	8,0±0,4
Focus range, m	from 0,25 to infinity	from 10 to infinity	
Diopter Adjustment	from -6 to +5		
Output pupil diameter, mm	15		
Output pupil relief, mm	15		
Interpupillary adjustment, mm	57 ÷ 72		
Energy parametrs			
Supply voltage, V	1,5		
Type and quantity of energy sources	one universal AA battery		
Active performance period without IR illumination, min, hours	20		
Active performance period with IR illumination, min, hours	10		
Global parameters			
Dimensions, mm	187 x 135 x 58	250 x 135 x 60	234 x 135 x 84
Monocular weight without batteries, g	500	700	760
Bag weight, g	250		

* Identification range of human body is defined by IIT type and generation and depends on weather or viewing conditions and other factors.

IIT parametrs

Type	EPM132G-00-22A	EPM102G-05-22S	EPM102G-05-22F
Generation	2+	3	
Resolution, lp/mm, min	57	64	68
Signal to noise ratio, min	19	24	27
Luminous photocathode sensitivity, mkA/lm, min	540	1800	2000
MTTF, h	10 000		

Standard set:

- Night Vision Goggles
- Headmount
- Carrying bag
- Shoulder strap
- Lens paper
- Operator's manual

Ambient conditions:

- Operating Temperature Range from minus 50°C to plus 55°C.
- Relative Humidity at 25°C - 98%.
- Shock resistance 5g.
- Immersion 0.5 м (30 minutes).

Accessories:

- 3ˣ and 5ˣ magnifier lens
- 3ˣ attachment lens
- Adapter for applying PVS type head-strap masks
- AUTO switch off when device is set in vertical position
- Helment mount
- IR-momentary switch-on button
- Protective device from long bright light-striking («off» at E>40lx, in 60 sec)
- Demist shield
- Sacrificial window