

SPECIAL
PRODUCTION



OPTIX

The Aviator Night Vision Goggles **DIANA A** are specially designed for the helicopter pilots. They allow pilots to navigate at nap of the earth, flying off, landing and other operations that are practically impossible or extremely dangerous at night conditions without the use of illuminating resources.

DIANA A dramatically extended the operational mission capability of the helicopter crew: allow nonstop surveillance of the earth surface at heights not more than 60 m and velocity not more than 270 km/h with wide field of view – 41°, that considerably expand the opportunities of the air patrolling, flight over

bad or entirely not illuminated field, performing of night scouting, taking of investigation and search and rescue (SAR).

DIANA A can be mounted to a single point on the pilot's helmet visor guard. No facemask is required, which allowing nearly full peripheral vision.

DIANA

TECHNICAL PARAMETERS

- Spectral response **visible to 0.90 μm (IR)**
- Magnification **1x**
- Field of View **41°**
- Equivalent resolution **≥ 45 ÷ 64 lp/mm**
- Signal to noise ratio **16 ÷ 24**
- Collimation **1 / 0.5°**
- Objective`s equivalent focal length **23.8 mm**
- Entrance pupil diameter **20 mm**
- F- number **1.2**
- T-number **1.26**
- Distortion **4 %**
- Focus range **from 0.25 m ÷ ∞**
- Eyepiece`s equivalent focal length **23.6 mm**
- Exit pupil diameter (on axis) **15 mm**
- Exit pupil relief (on axis) **25 mm**
- Eye basis **from 52 ÷ 72 mm**
- Eyepiece diopter adjustment **+2 ÷ -6 diopters**
- Supplying voltage **2.4 ÷ 3 V DC / 24 ÷ 28 V DC via adapter (optionally)**
- Autonomous Power Supply with main and spare battery pack
- Battery type **2 x AA (R6) for every pack**
- Operation time of each battery pack **not less than 40 hours**
- Weight **0.6 kg (aluminium housing) / 0.55 kg (polymer housing)**
- Weight of the APS **0.23 kg**
- Weight of the flip-up helmet mount mechanism **0.15 kg**
- Overall dimensions (L x W x H) **120 x 145 x 80 mm**
- Operating temperature range **-32 ÷ +52°C**
- Storage temperature range **-35 ÷ +71°C**
- Position adjusting range:
 - Height **> 20 mm**
 - Depth **> 42 mm**
 - Tilt **> 12°**
- Flip-up / flip down **button release**
- The device complies with **AN/AVS-6**

DIANA A

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