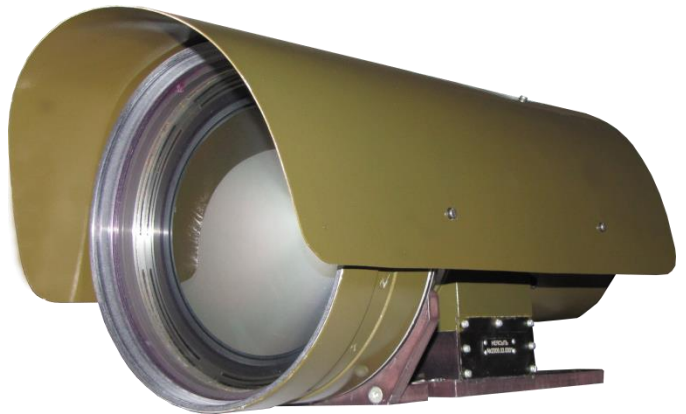




# «OWL»

## THERMAL IMAGING CAMERA



 **CYCLONE**

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The uncooled thermal imaging camera OWL is meant for day-night detection, recognition and observation of objects at medium distances (up to several kilometers), in particular, under adverse weather conditions (forest fire smoke formation, dust, haze, fog) and under jamming conditions (direct light of headlights, projectors, etc).

The thermal imaging camera OWL uses the advanced technology of uncooled microbolometers. It operates in LW and IR range. The main part of intrinsic electromagnetic radiation of the majority of natural and artificial objects, surrounding us, is concentrated in IR spectrum area. The application of high quality Germanium optics with auto focus enables to effectively use the microbolometer capabilities.

*OWL thermal imager is unique uncooled miniature thermal imaging camera, developed and manufactured fully in Russia.*

#### Applications:

- ✓ Stationary and mobile mounted surveillance system
- ✓ Borderline surveillance
- ✓ Control of important facilities
- ✓ Protection of public order
- Options:
  - Laser range finder
  - Digital magnetic compass
- ✓ Search and Rescue systems
- ✓ Public security
- ✓ Natural resource monitoring
- ✓ Ecological monitoring
- Electronic image stabilization

### FEATURES

Focal Plane array	<b>aSi/VOx Microbolometer</b>
Pixel Count	<b>384 × 288</b>
Pixel Size, μm	<b>25/ 17</b>
Thermal Sensitivity, mK	<b>&lt; 100/ 70</b>
Start-up Time (cold start), @ 25°C, sec	<b>&lt; 30</b>
Human detection range, m	<b>6000 / 9000</b>
Human recognition range, m	<b>2000 / 3000</b>
FOV (H x V)	<b>3,0° × 2,3° / 2,0° × 1,6°</b>
Objective Focal Length, mm	<b>180</b>
Minimum Focus Distance, m	<b>&lt; 50</b>
Output Signal	<b>ГОСТ 7845-92</b>
Power Source	<b>12 VDC</b>
Operating Temperature	<b>-40°C to +50°C</b>
Storage Temperature	<b>-50°C to +70°C</b>

\* Recalculation of optical system is possible on request of the Customer.