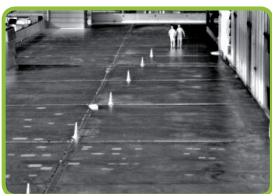




Camera Applications



Uncooled Thermal Camera for Defense Applications



Opgal's Gilboa™ is a high-performance uncooled camera based on state-of-the-art EyeR™ engines, packed into a ruggedized housing and integrated with hard carbon-coated optics. Featuring very powerful and field proven proprietary algorithms, Gilboa provides superior thermal images through smoke, dust and other atmospheric obscurants. A special rugged enclosure enables Gilboa to meet MIL STD requirements. The camera is offered with a variety of focal-length lenses that tune it to long-wave infrared spectral band. Gilboa can be used standalone or integrated as an OEM solution.





Camera Applications

Gilboa Specifications

Key Benefits

- Excellent visibility in harsh conditions - based on powerful, field-proven proprietary algorithms
- Continuous Zoom - x0.9 x12 zoom in 640x480 model, or x2, x4 step zoom in others
- On-screen menu
- High resolution graphics overlay
- User defined power up logo
- Digital Video Output via LVDS (optional)
- Camera control via communication protocol or discrete interface (configurable)
- Focus & FOV control via communication (optional)
- User defined Region Of Interest (ROI)
- Snapshots control
- User-friendly interface software

Applications

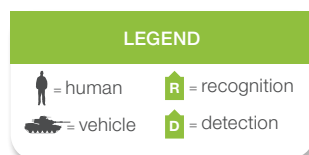
- Ground and naval applications
- Weapon sights and weapon stations
- Military and paramilitary surveillance awareness

Camera Configuration Options

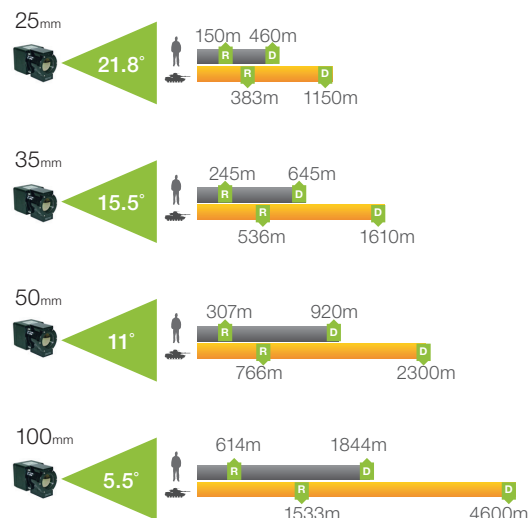
Features		Description / Performance	
Pixel Size	25 μ m	25 μ m	17 μ m
Focal Plane Array	ASi / VOx	ASi	ASi / VOx
Spectral Range	7.5-14 μ m		
Number of Pixels	384x288	640x480	640x480
Frame Rate*	25/30 Hz or 50/60 Hz		
Analog Video Output	CCIR or RS-170 (PAL or NTSC)		
Digital Video Output (optional)*	Camera Link	LVDS	Camera Link or BT656
Remote Control	RS 232 or RS 422		
Control Operation	Video Polarity, NUC, Zoom		
Operating Voltage	18-32 VDC (MIL-STD 1275)		
Power Consumption*	2.2 W	4.3 W (basic unit)	2.2 W
NETD*	40°mK @ f/1 lens	40°mK @ f/1 lens	55°mK @ f/1 lens
Operating Temperature Range	-40°C to +60°C		
Environmental Qualification	MIL-STD 810 IP 65, IP67 (optional)		
Dimensions without lens (HxWxL)	122x122x100 mm		
Weight (without lens)	~ 1.7 kg		

* Core Engine Dependent

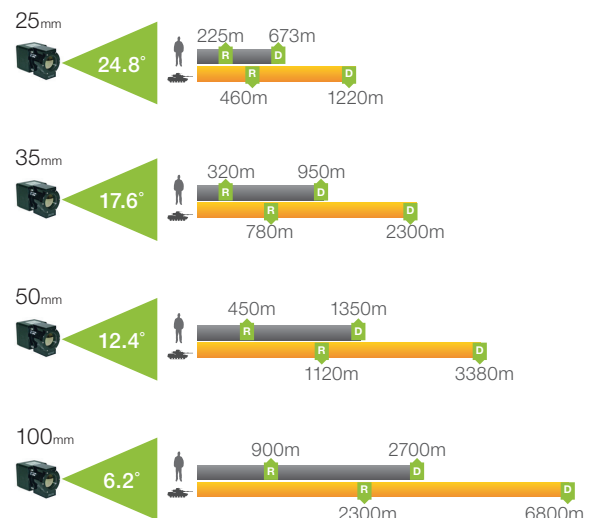
Range Performance



384x288 25 μ



640x480 17 μ



Note: Distances are calculated based on geometrical values and do not take into account atmospheric conditions



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