

# ATLAS-660D

*Border Security & Surveillance System*



ATLAS-660D, is an electro-optical sensor system designed not only for border-coastal reconnaissance & surveillance but also for land and naval platforms to provide clear & crisp image in day, night and harsh environmental conditions such as dust, smoke, fog, etc.

- Thermal & Day Surveillance
- Enhanced DRI Performance
- Monitor & Analyze Suspicious Activities
- Detect & Track Threats
- Integration to Variety of Systems



# ATLAS-660D

Border Security & Surveillance System

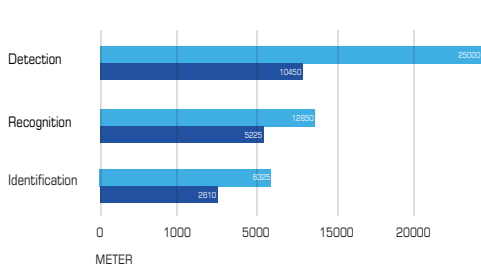


## Technical Specifications

Thermal Channel					
Detector	■ MCT (HgCdTe) - Cooled		Lens	Close Focus	■ 1m ~ 10m (Wide~ Narrow)
Resolution	■ 640x512			VFOV	■ 22.7°x0.2° ± %5
Pixel Pitch	■ 15 μm			Zoom Speed	■ ~8 Saniye
F No	■ F4		Video Network	Encoding	■ H.265/H.264/H.264H/MJPEG
Frame Rate	■ 1-50 Hz			Resolution	■ HD-SDI Main Stream: 1080P / 720P @25/30 fps
Wave Length	■ 3.7° ~ 4.8 μm			Video Bit Rate	■ 32 Kbps ~ 16 Mbps
Cooling Time	■ ≤25 mK @25°C			Network Protocol	■ ONVIF, HTTP, RTSP, RTP, TCP, UDP
Focal Length	■ 33-660 mm Continous Zoom		Min. Illumination	■ Color Image: 0.05Lux @(F2.8, AGC ON)	
FOV	■ 16.55°x13.27° ~ 0.83°x0.67°		Noise Reduction	■ 2D / 3D	
Dijgtal Zoom	■ 1.0~4.0X (Continous Zoom - Step Size: 0.1)			■ 1/1 ~ 1/30000 Sn	
Image Algorithms	■ Non-uniformity correction		Image Settings	■ Saturation, Brightness, Contrast, Sharpness, Gamma	
	■ Digital filtering noise reduction		S/N Ratio	■ > 55 dB (AGC Off, Weight ON)	
	■ Digital detail enhancement		AGC	■ Yes	
Image Orientation	■ Horizontal/Vertical/Diagonal		Day/Night	■ Auto (ICR)/ Manual (Color, BW)	
Video Out	■ Ethernet		E-zoom	■ 16X	
Communication	■ Ethernet		Focus	■ Auto/Manual	
Day Channel			Defog	■ Yes	
Detector	Type	■ ½" Progressive Scan CMOS	Video Out	■ Ethernet	
	Effective Pixel	■ 2.13 M Pixel	Communication	■ Ethernet	
Lens	Focal Length	■ 10 ~ 860 mm	Environmental		
	Zoom	■ 86X	Operational Temp.	■ -32°C ~ +55°C	
	F - No	■ 2.0 ~ 6.8	Storage Temp.	■ -40°C ~ +70°C	
	HFOV	■ 35.7°x0.4° ± %5			

All values are subject to ± %10 production tolerance.

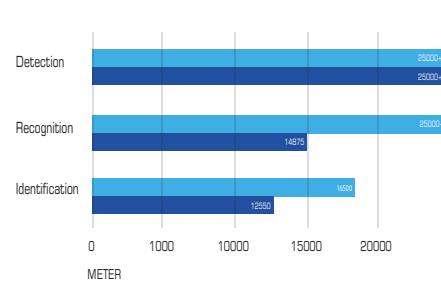
### THERMAL CHANNEL



**VEHICLE**  
Stanag 4347  
Thermal Contrast : 2°C  
σ : 0.2 /Km  
Probability : 50%

**HUMAN**  
Stanag 4347  
Thermal Contrast : 5°C  
σ : 0.2 /Km  
Probability : 50%

### DAY CHANNEL



**VEHICLE**  
MRC Measurement  
Std. Contrast : 30%  
Illumination : >100lx  
Probability : 50%

**HUMAN**  
MRC Measurement  
Std. Contrast : 30%  
Illumination : >100lx  
Probability : 50%

Designed & Developed by **FOTONIKS A.Ş**

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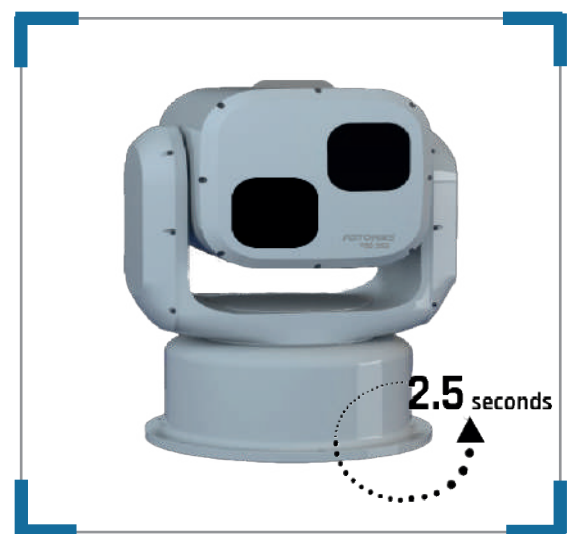
# OPRAD

## *PGS-360 Panoramic Surveillance System*



OPRAD PGS-360, is an electro-optical sensor system for wide area surveillance, designed not only for border-coastal reconnaissance & surveillance but also for perimeter security in day, night and harsh environmental conditions (dust, smoke, fog, etc). PGS-360, can be integrated to variety of the systems that are developed for different applications such as radars. The System provides the user with crisp and clear image in both thermal and visible wavelengths. Combined with the PGS-360 advanced Dynamic Detection Software, it provides unprecedented real-time surveillance security across the entire environment against intrusions from traditional and asymmetric threats.

- Critical Building Security
- Perimeter Security
- Coastal & Border Surveillance
- Monitor & Analyze Suspicious Activities
- Detect & Track Threats
- Integration to Variety of Systems



# OPRAD

## PGS-360 Panoramic Surveillance System



### Technical Specifications

#### Thermal Channel

Detector	■ VOx FPA - Uncooled
Resolution	■ 640x512
Pixel Pitch	■ 12 $\mu$ m
Wave Length	■ 8° ~ 12 $\mu$ m

#### Day Channel

Detector	■ CMOS
Resolution	■ 1280 x 1024
Pixel Pitch	■ 3.75 $\mu$ m
Wave Length	■ 400-750nm

#### System Specifications

System Resolution (H x V)	■ IR. 26040 x 640 ■ Vis. 45384 x 1024
FOV (H x V)	■ 360° ~ 8°
Pitch Angle	■ -20° ~ +80°
Electronic Zoom	■ 4X
Video Out	■ Ethernet
Power	■ DC 24V - 50W
Size (Diameter x Height)	■ 326mm x 485mm
Weight	■ 28kg

#### Environmental

Operational Temp.	■ -32°C ~ +55°C
Storage Temp.	■ -40°C ~ +70°C

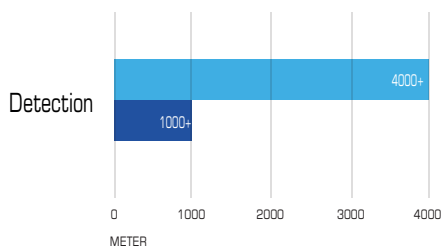
360° protection



Multiple Detection

All values are subject to  $\pm$  %10 production tolerance.

#### THERMAL CHANNEL

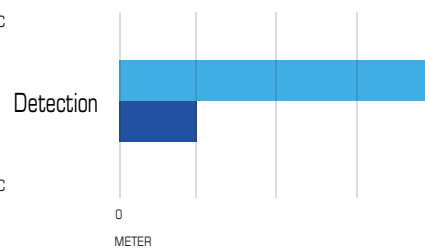


VEHICLE  
Stanag 4347  
Thermal Contrast : 2°C  
 $\sigma$  : 0.2 /Km  
Probability : 50%



HUMAN  
Stanag 4347  
Thermal Contrast : 5°C  
 $\sigma$  : 0.2 /Km  
Probability : 50%

#### DAY CHANNEL



VEHICLE  
MRC Measurement  
Std. Contrast : 30%  
Illumination : >100lx  
Probability : 50%



HUMAN  
MRC Measurement  
Std. Contrast : 30%  
Illumination : >100lx  
Probability : 50%

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