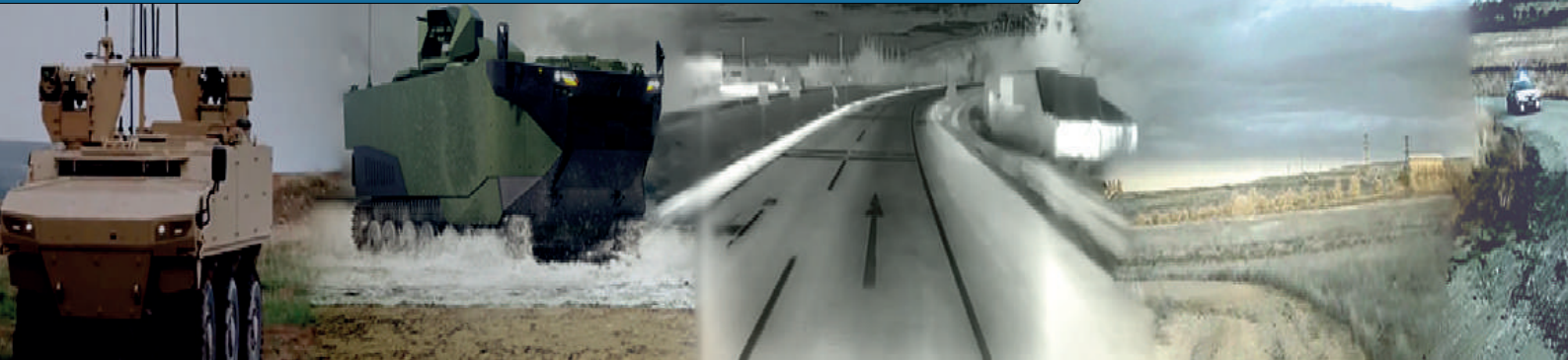


DAT-II

FUSION Driver Vision Enhancement Camera



DAT-II is a state-of-the-art Driver Vision Enhancement Camera designed to elevate driving safety in all conditions. Equipped with dual-spectrum sensors, thermal and NIR, it seamlessly fuses imagery from both to detect obstacles and potential threats, even in complete darkness or low visibility. Built to meet rigorous military standards, DAT-II features a rugged, durable housing and electronics protected against electromagnetic interference. With crystal-clear imaging and enhanced depth perception, DAT-II ensures optimal performance, providing drivers with confidence and clarity in the harshest environments.

- Fused/IR/Low Light Image
- Color Modes
- Low Latency Stream
- Electro-Magnetic Compatibility
- Meets MIL-STD 810H
- Compatible to Variety of Platforms



DAT-II

FUSION Driver Vision Enhancement Camera



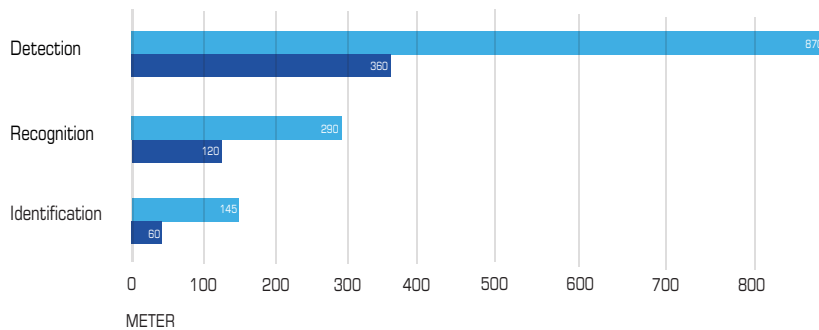
Technical Specifications

IR Detector/Resolution	■ VOx FPA - Uncooled	■ 640x512
NIR Detector/Resolution	■ 1/1.8" Progressive Scan CMOS	■ 1920 x 1080
Pixel Pitch	■ 12 μ m	
Wave Length	■ 8 ~ 14 μ m	
FOV	■ 43° x 33°	
Frame Rate	■ 50Hz	
Video Out	■ Analog, Ethernet (H.264)	
Communication	■ RS 422, Ethernet	
Electro Magnetic Compatibility	■ MIL-STD 461F	
	■ MIL-STD 1275E	
Power	■ 9-36V	
Weight	■ 2400 grams	
Environmental		
Operational Temp.	■ -32°C ~ +55°C	
Storage Temp.	■ -40°C ~ +70°C	

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



System DRI (Fused Image)



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%

Fotoniks A.Ş reserves the right to change data provided in this document.

FOTONIKS

www.fotoniks.com.tr info@fotoniks.com.tr

+90 312 490 22 48

DNV 2.0

Digital Night Vision Driver Camera



DNV 2.0 is a cutting-edge, low-visibility camera designed to enhance driver vision in challenging lighting conditions. Equipped with a state-of-the-art, high-sensitivity low-light detector, it ensures superior situational awareness for safer driving. With DNV 2.0, drivers can confidently navigate through dim environments without relying on external light sources, such as headlights or infrared illumination. Its advanced optical components and wide field of view provide a clear, reliable perspective, delivering a safer and more secure driving experience in harsh environments.

- Low Latency Stream
- Electro-Magnetic Compatibility
- Meets MIL-STD 810H
- Compatible to Variety of Platforms



DNV 2.0

Digital Night Vision Driver Camera



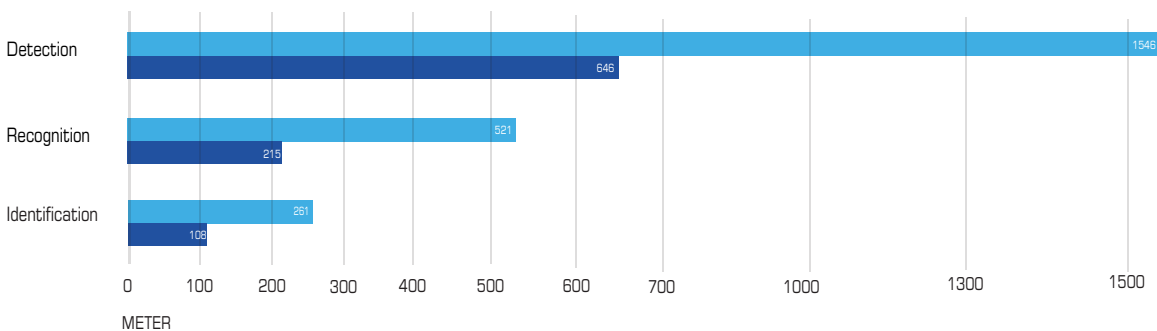
Technical Specifications

Detector	■ 1/2.8" CMOS
NIR Detector/Resolution	■ 1920 x 1080
Pixel Pitch	■ 3.75µm
Wave Length	■ 400~1100nm
FOV	■ 70° x 43°
Frame Rate	■ 25Hz
Video Out	■ Analog HD
Min. Illumination	■ 3mLux
Electro Magnetic Compatibility	■ MIL-STD 461F
	■ MIL-STD 1275E
Power	■ 9-36V
Weight	■ <600 grams
Environmental	
Operational Temp.	■ -32°C ~ +55°C
Storage Temp.	■ -40°C ~ +70°C



All values are subject to ± %10 production tolerance.

DNV 2.0 Camera DRI



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

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

Fotoniks A.Ş reserves the right to change data provided in this document.

FOTONIKS

www.fotoniks.com.tr info@fotoniks.com.tr
+90 312 490 22 48

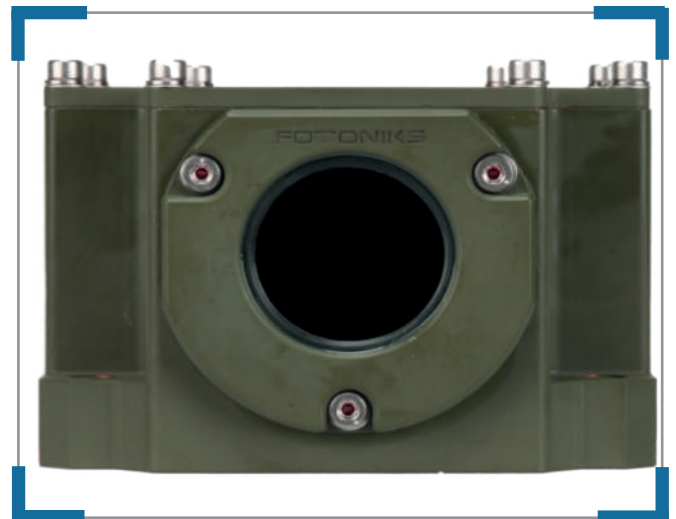
DTV-E

Driver Thermal Vision



DTV-E is a cutting-edge thermal driving camera engineered to enhance safety by detecting obstacles and threats along the route, even in darkness or low-visibility conditions. Designed to meet military standards, it features a ruggedized housing and components protected against electromagnetic interference. DTV-E delivers sharp, high-resolution imagery, ensuring reliable, secure driving in the most demanding environments.

- **Advanced Un-Cooled Thermal Core**
- **Low Latency Stream**
- **Electro-Magnetic Compatibility**
- **Meets MIL-STD 810H**
- **Compatible to Variety of Platforms**



DTV-E

Driver Thermal Vision



Technical Specifications

Thermal Channel

Detector	■ VOx FPA - Uncooled
Resolution	■ 640x512
Pixel Pitch	■ 12 μ m
Wave Length	■ 8 ~ 12 μ m
FOV	■ 45° x 37°
Frame Rate	■ 50Hz
Video Out	■ Analog (PAL)
Communication	■ RS 232
Electro Magnetic Compatibility	■ MIL-STD 461F
	■ MIL-STD 1275E
Power	■ 9-36V
Weight	■ 990grams

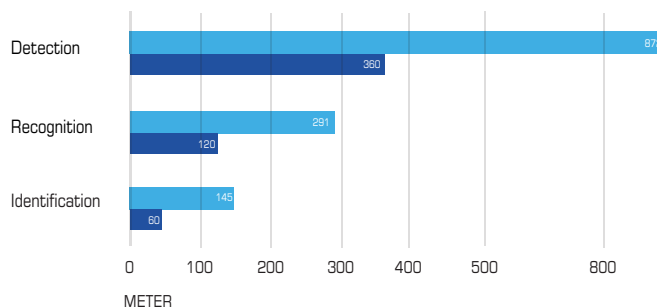
Environmental

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



All values are subject to \pm %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%

Fotoniks A.Ş reserves the right to change data provided in this document.

FOTONIKS

www.fotoniks.com.tr info@fotoniks.com.tr
+90 312 490 22 48

D-VIS

DUAL BAND DRIVER CAMERA



D-VIS Driver Vision Enhancement Camera, consists of two cameras in different wavelengths in a single ruggedized body. The camera provides both visible wavelength and thermal wavelength images to increase situational awareness and ensure safe driving in adverse conditions. Driver can choose between one of two images depending on the environmental light levels and the road conditions.

- Wide FOV
- Thermal & Visible Spectrum Image
- Low Latency Stream
- Electro-Magnetic Compatibility
- Meets MIL-STD 810H
- Compatible to Variety of Platforms



D-VIS

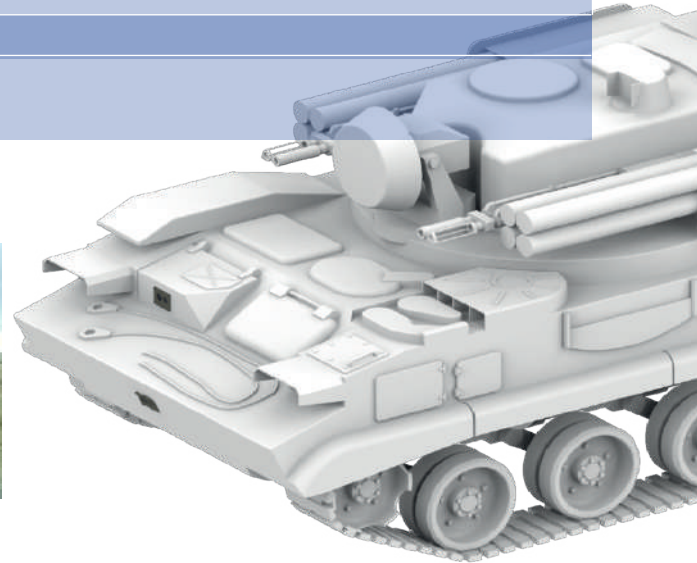
DUAL BAND DRIVER CAMERA



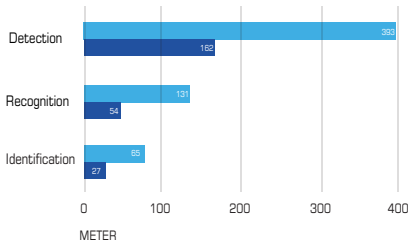
Technical Specifications

Thermal Channel		System Interfaces	
Detector	■ VOx - FPA - Soğutmasız	Video	■ Ethernet, H264, PAL, CCIR
Resolution	■ 640x512	Communication	■ Ethernet
Pixel Pitch	■ 12 µm	Power	■ DC 9-36V
Frame Rate	■ 50 Hz	Electro Magnetic Compatibility	
Wave Length	■ 8 ~ 14 µm	Standard	■ MIL-STD-461F, MIL-STD-1275E
Focal Length	■ 4.1 mm	Environmental	
FOV (HxV)	■ 87° x 73°	Operational Temp.	■ -32°C ~ +55°C
Electronic Zoom	■ N/A	Storage Temp.	■ -40°C ~ +70°C
Optical Zoom	■ N/A	Physical	
Day Channel		Size	■ 160mm x 152.2mm x 108mm
Detector	■ 1/3" CCD (Color)	Weight	■ 2500 grams
Resolution	■ 976 x 582		
Min. Illumination	■ 100mLux		
FOV (H x V)	■ 90° x 67°		

All values are subject to ± %10 production tolerance.



THERMAL CHANNEL

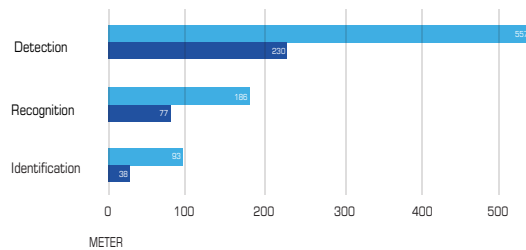


VEHICLE
Stanag 4347
Thermal Contrast : 2°C
σ : 0.2 /Km
Probability : 50%



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%

Fotoniks A.Ş reserves the right to change data provided in this document.

FOTONIKS

www.fotoniks.com.tr info@fotoniks.com.tr

+90 312 490 22 48

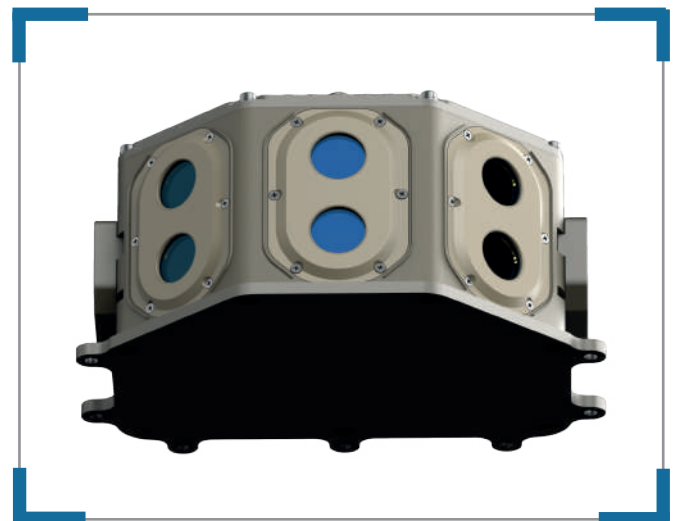
KUZGUN DUAL

WIDE FOV CAMERA



KUZGUN DUAL is a wide field of view camera system consisting of 3 daytime and 3 thermal sensor groups to provide drivers with enhanced situational awareness, especially in confined and narrow spaces such as armored vehicles where there are many blind spots. Under normal environmental conditions the high resolution daytime channel will be sufficient to capture all the details in your field of view, but in low visibility conditions you can easily switch to thermal vision mode or split screen mode to ensure safe and secure driving.

- Wide FOV
- Thermal & Visible Spectrum Image
- Low Latency Stream
- Electro-Magnetic Compatibility
- Meets MIL-STD 810H
- Compatible to Variety of Platforms



KUZGUN DUAL

WIDE FOV CAMERA



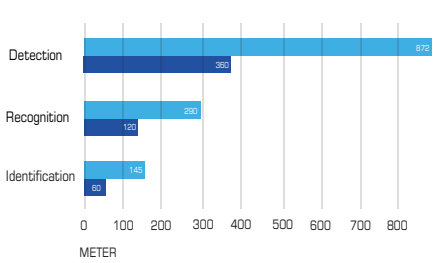
Technical Specifications

Thermal Channel		System Interfaces	
Detector	■ VOx - FPA - Uncooled	Video	■ Ethernet, (H.264)
Resolution	■ 640x512	Communication	■ Ethernet
Pixel Pitch	■ 12 µm	Electro-Magnetic Compatibility	
Frame Rate	■ 50 Hz	Standard	■ MIL-STD-461F, MIL-STD-1275E
Wave Length	■ 8 ~ 14 µm	Environmental	
Focal Length	■ 9.1 mm	Operational Temp.	■ -32°C ~ +55°C
FOV (HFOV)	■ >120° x 37°	Storage Temp.	■ -40°C ~ +70°C
Electronic Zoom	■ 1-4.0X	Physical	
Optical Zoom	■ N/A	Size	■ 274mm x 198mm x 129mm
Gündüz Kanalı		Weight	■ 6650 grams
Detector	■ 1/1.8" CMOS		
Resolution	■ 1920 x 1080		
Focal Length	■ 6mm		
Pixel Pitch	■ 4 µm		
FOV (H x V)	■ >120° x 40°		
Min. Illumination	■ 5mLux @F1.2 (Color) ■ 1mLux @F1.2 (B/W)		

All values are subject to ± %10 production tolerance.



THERMAL CHANNEL



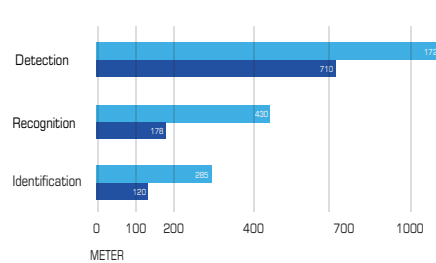
VEHICLE

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%

Fotoniks A.Ş reserves the right to change data provided in this document.

FOTONIKS

www.fotoniks.com.tr info@fotoniks.com.tr

+90 312 490 22 48

SAWES

SITUATIONAL AWARENESS SYSTEM



SAWES is an advanced situational awareness and night driving solution designed to enhance driver visibility and safety in challenging environments. Featuring a variety of specialized cameras and a sophisticated management system, SAWES significantly improves situational awareness in confined, high-blind spot settings such as armored vehicles. This system enables drivers to confidently navigate and maneuver in low-light conditions, and is easily adaptable to the mission profiles of various armored vehicle types. With its 360° imaging capability, SAWES ensures safe and secure driving in all operational environments.

- Wide FOV
- Enhanced Situational Awareness
- Safe Drive at Low Light Conditions
- Low Latency Stream
- Electro-Magnetic Compatibility
- Meets MIL-STD 810H
- Compatible to Variety of Platforms



SAWES

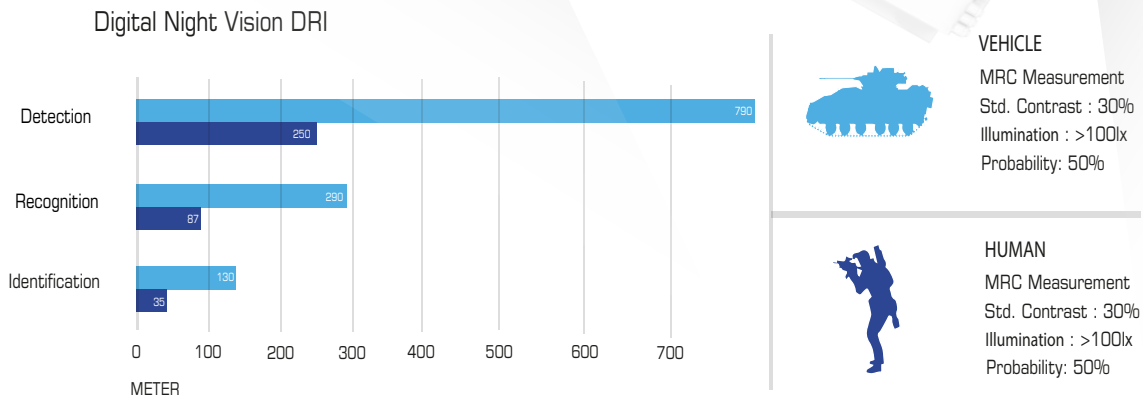
SITUATIONAL AWARENESS SYSTEM



Technical Specifications

Digital Night Vision		Internal Camera	
Detector	■ CMOS	Detector	■ CMOS
Resolution	■ 1920 x 1080	Resolution	■ 1920 x 1080
Pixel Pitch	■ 3.75 µm	FOV	■ 120°
Frame Rate	■ 50 Hz	System Interfaces	
Wave Length	■ 400-1100 nm	Video	■ Analog HD
FOV	■ 70°	Electro-Magnetic Compatibility	
360 Cameras		Standard	■ MIL-STD-461F, MIL-STD-1275E
Detector	■ CMOS	Environmental	
Resolution	■ 1920 x 1080	Operational Temp.	■ -32°C ~ +55°C
Pixel Pitch	■ 2.8 µm	Storage Temp.	■ -40°C ~ +70°C
Frame Rate	■ 50 Hz		
FOV	■ 180°		
Display			
Resolution	■ 1920 x 1080		
Video Out	■ CVBS, VGA		

All values are subject to ± %10 production tolerance.



Fotoniks A.Ş reserves the right to change data provided in this document.

FOTONIKS

www.fotoniks.com.tr info@fotoniks.com.tr
+90 312 490 22 48