



FIREFLY SA

**MULTI-SENSOR SYSTEM
FOR DRIVING VISION
ENHANCEMENT (DVE)
AND SITUATIONAL
AWARENESS**

SYSTEM DESCRIPTION

FIREFLY SA is a compact multi-sensor system designed for driving Enhancement and situational awareness missions using Thermal Camera, HD Low Light camera, Target Classification and Video Analytics.

Objects detected by Video Analysis are transmitted to the vehicle Command and control system and to the driver.

The system provides a 360° panoramic day/night image.



WEIGHT: 1.2 kg.
FIELD OF VIEW:
45°/60°/ 90°
RANGE: Up to 400 m

APPLICATIONS

The FIREFLY SA family is the optimal cost effective solution for:



Armored
Vehicles Driving
Enhancement



Army Personnel
Carrier (APC)
Protection



Unmanned
Vehicles

FIREFLY SA MAIN TECHNICAL FEATURES

- Day/Night Low Light & Thermal Cameras
- High Frame Rate & Low Delay
- Designed for Harsh Enviroments
- Analog or IP Video

OPTIONAL

- VMD
- Deep Learning Classification
- Automatic Target Classification
- 360° Panoramic View
- Fusion (Day and Thermal Camera)
- Driver & Commander Display
- Short Range Stationary Radar

SYSTEM PERFORMANCE

DAY CAMERA	
Resolution	2MP
Field of View	45/60/90° Horizontal
Pitch	3.75 µm
FPS	30/60 fps
VIDEO	
Compression	H.264
Multi-Cast	TS
Unicast	RTSP MPEG4
Bandwidth	0.1-4Mbit/s
Analog Video	PAL/NTSC
Digital Video	HD-SDI
MECHANICAL	
Size	W150 x H130 x L95 mm
Weight	1.2 kg
OPTIONAL FUNCTIONS	
VMD	DAY / Thermal Camera
Short Range Radar	Up to 140 meters
Panoramic view	360° Day & Thermal
Fusion	Day & Thermal
Classification	Vehicles, Humans, Animals
Safety	Collision & Turn Over

THERMAL CAMERA	
Pitch	17 µm
Resolution	640x512
NETD	<40mk
FOV	45/60/90° Horizontal
FPS	30/60 fps
POWER	
Input Voltage	9-32V
Power Consumption	<6W
Standby Mode	>0.2W
ENVIRONMENTAL	
Operating Temp.	(-30°)÷55°C
Vibration	4g RMS for each axis
Environmental	IP67
C&C UNIT - OPTIONAL	
Size	10.1"
Weight	1.2kg
Recording Time	Up to 150 hours
Communication	Ethernet
Control	Brightness, Contrast, Polarity, NUC