FIREFLY 140 SV

BEESENSE
INTEGRATED MULTI-SENSOR SOLUTIONS

SHORT RANGE MULTI-SENSOR SURVEILLANCE SYSTEM FOR PERIMETER SECURITY AND HLS

SYSTEM DESCRIPTION

The FIREFLY 140 is a compact multi-sensor system designed for perimeter security using short range radar, thermal camera, HD low light camera, target classification and video analytics,.

Objects detected by the radar or video analytics are transmitted to the command and control center or can be locally recorded on the system for future extraction. Using the ONVIF protocol the FIREFLY 140 SV can be easily integrated with any kind of C4I system for video storage and remote control.

The FIREFLY 140 is the ultimate protector for perimeter security.

FIREFLY
The ultimate perimeter protector

WEIGHT: *~ 2 kg.*
FIELD OF VIEW: *60°*
RANGE: *140 m*

APPLICATIONS

The FIREFLY family is the optimal cost effective solution for:

| Border Protection | Airport Security | Critical Assets | Public Transportation | Unattended Mobile Security |

FIREFLY 140 SV MAIN TECHNICAL FEATURES

- Short Range Staring Radar
- Internal Recording
- Minimum Energy Consumption

- Automatic Target Classificatiom
- Remotely Controlled
- Multiple Communication Options

OPTIONAL

- Onboard VMD
- Deep Learning Classification
- Fusion between the Radar and the Optics Wireless Communications
- External Batteries

SYSTEM PERFORMANCE

DAY CAMERA	
Resolution	5MP
Field of View	60° Horizontal
Pitch	1.4 µm
RADAR	
Detection Range	140m
FOV	60°
TX Power	20 dBm
Radio Frequency	24.00 - 24.25 GHz
FCC Approved	Yes
VIDEO STREAMING	
Compression	H.264
Multi-Cast	TS
Unicast	RTSP MPEG4
Bandwidth	0.1-4Mbit/s
MECHANICAL	
Size	W120xH200xL100 mm Without antennas
Weight	2kg

THERMAL CAMERA	
Pitch	17 µM
Resolution	640x480
NETD	<35/50mk
FOV	57° Horizontal
COMMUNICATION	
Wi-Fi	2.4-2.485GHz
1W	TX Power
Ethernet	10/100 Mbit/s
Cellular	4G, LTE
POWER	
Input Voltage	9-32V
Power Consumption	<10W (Wi-Fi Streaming for video and radar)
Standby Mode	>0.2W
ENVIRONMENTAL	
Operating Temp.	(-30°)÷55°C
Vibration	2g RMS for each axis
Environmental	IP67