



# FIREFLY 140 SV

Short Range Multi-Sensor Surveillance System for perimeter security and HLS

## SYSTEM DESCRIPTION

FIREFLY 140 is 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 Analysis are transmitted to the command and control center or can be locally recorded on the system for future extraction.

Using ONVIF protocol the FIREFLY 140 SV can be easily integrated with any kind of C4I system for video storage and remote control.

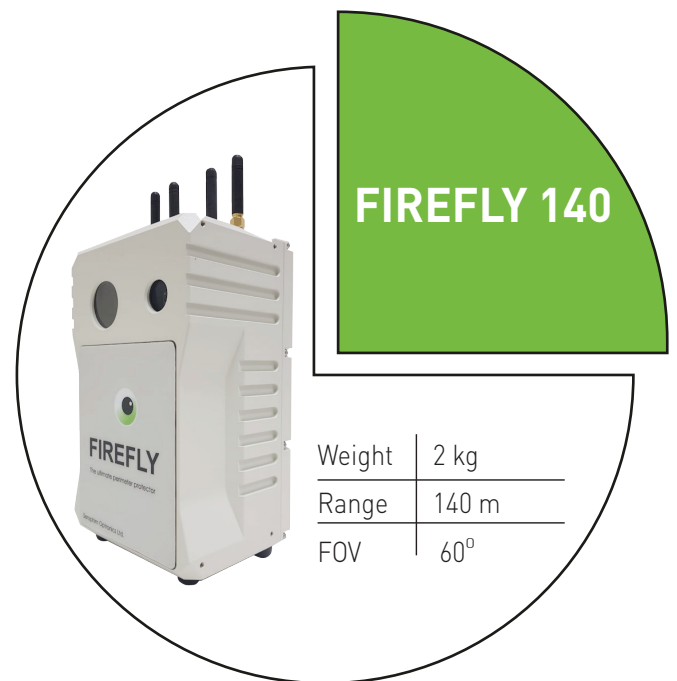
The FIREFLY 140 is the ultimate protector for perimeter security.

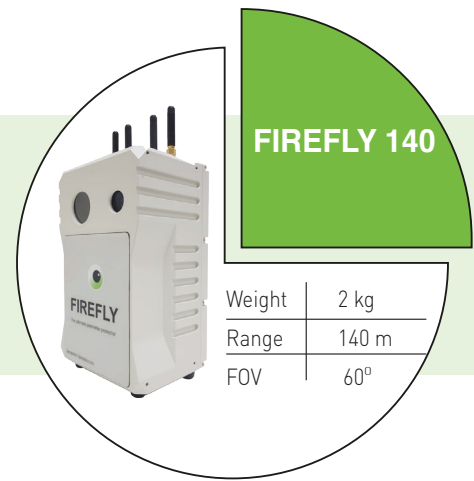
## MAIN TECHNICAL FEATURES

- Day/Night Low Light cameras for observation capability
- Short range staring radar
- Internal recording
- Minimum energy consumption
- Automatic target classification
- Remotely control
- Multiple communication options (LAN, WiFi, Cellular, UHF)
- Easily integration with C4I systems
- Designed for unattended use
- Onvif Protocol
  - **Optional**
  - Onboard VMD
  - Deep Learning Classification
  - Fusion between the Radar and the Optics
  - Wireless communication
  - External batteries

## APPLICATIONS

- Border Protection
- Airports Security
- Critical Assets
- Public Transportation
- Unattended Mobile Security





# Technical Data

Characteristics	Value
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DAY CAMERA	
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1. Resolution	5MP
2. Field of View	60° Horizontal
3. Pitch	1.4 μm

Characteristics	Value
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THERMAL CAMERA	
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1. Pitch	17 μM
2. Resolution	640x480
3. NETD	<35/50mk
4. FOV	57° Horizontal

RADAR	
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1. Detection Range	140m
2. FOV	60°
3. TX Power	20 dBm
4. Radio Frequency	24.00 - 24.25 GHz
5. FCC Approved	Yes

COMMUNICATION	
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1. Wi-Fi	2.4-2.485GHz
2. 1W	TX Power
3. Ethernet	10/100 Mbit/s
4. Cellular	4G, LTE

VIDEO STREAMING	
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1. Compression	H.264
2. Multi Cast	TS
3. Unicast	RTSP MPEG4
4. Bandwidth	0.1-4Mbit/s

POWER	
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1. Input Voltage	9-32V
2. Power Consumption	<10W (Wi-Fi Streaming for video and radar)
3. Standby Mode	>0.2W

MECHANICAL	
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1. Size	W120xH200xL100 mm Without antennas
2. Weight	2kg

ENVIRONMENTAL	
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1. Operating Temp.	(-30°)÷55°C
2. Vibration	2g RMS for each axis
3. Environmental	IP67