



# FIREFLY 140 XV

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

## SYSTEM DESCRIPTION

FIREFLY 140 XV is compact multi-sensor system designed for perimeter security using short range Radar, 2 Thermal cameras, 2 HD Day Low Light cameras, 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 XV can be easily integrated with any kind of C4I system for video storage and remote control.

The FIREFLY 140 XV is the ultimate protector for perimeter security.

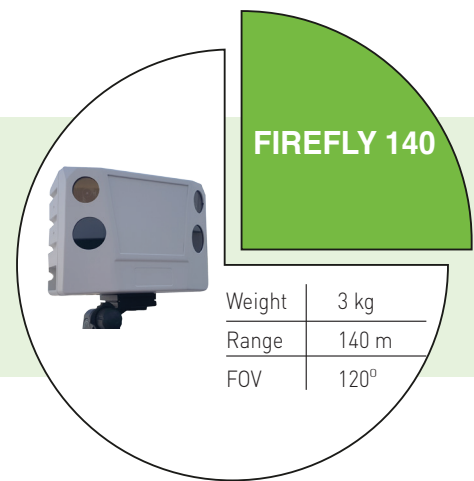
## MAIN TECHNICAL FEATURES

- 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 CAMERAS	
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1. Resolution	2MP x2 Low Light Cameras 0.001Lux
2. Field of View	60° Horizontal each camera, 120° Total
3. Pitch	5.8 μm
4. DRI	Detection 370 Recognition 180m Identification 15m (face)

RADAR	
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1. Detection Range	140m
2. Field of View	120°
3. TX Power	20 dBm
4. Radio Frequency	24.00 - 24.25 GHz
5. FCC Approved	Yes

Characteristics	Value
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THERMAL CAMERAS - OPTIONAL	
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1. Resolution	640x480, 17 μM
2. Field of View	57° Horizontal each camera 114 Total
3. NETD	<35/50mk
4. DRI	Detection 310m Recognition 110m Identification 50m

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

VIDEO STREAMING		
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1. Compression	H.264	One panoramic picture with digital zoom
2. Multi Cast	TS	4 multi streams 2HD and 2 D1
3. Unicast	RTSP MPEG4	
4. Bandwidth	0.1-4Mbit/s	

POWER	
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1. Input Voltage	9-32V / POE Type 3 42.5-57.0 V
2. Power Consumption	<25W 2 Low Light cameras and Radar (<30W with 2 Thermal cameras)
3. Standby Mode	>0.2W

MECHANICAL	
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1. Size	185H x 245W x125L mm Without antennas
2. Weight	3kg

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