



FIREFLY 500

Medium Range Multi-Sensor Surveillance System
For perimeter security and HLS

SYSTEM DESCRIPTION

FIREFLY 500 is compact multi-sensor system designed for perimeter security using medium range radar, automatic target classification, one panoramic picture of 4X HD Low Light cameras and an option for thermal PTZ camera.

Objects detected by the Radar, or Video Analysis are transmitted to command and control center or can be locally recorded on the system for future extraction.

Using ONVIF protocol the FIREFLY 500 can be easily installed and integrated with any kind of C4I system for video storage and remote control.

MAIN TECHNICAL FEATURES

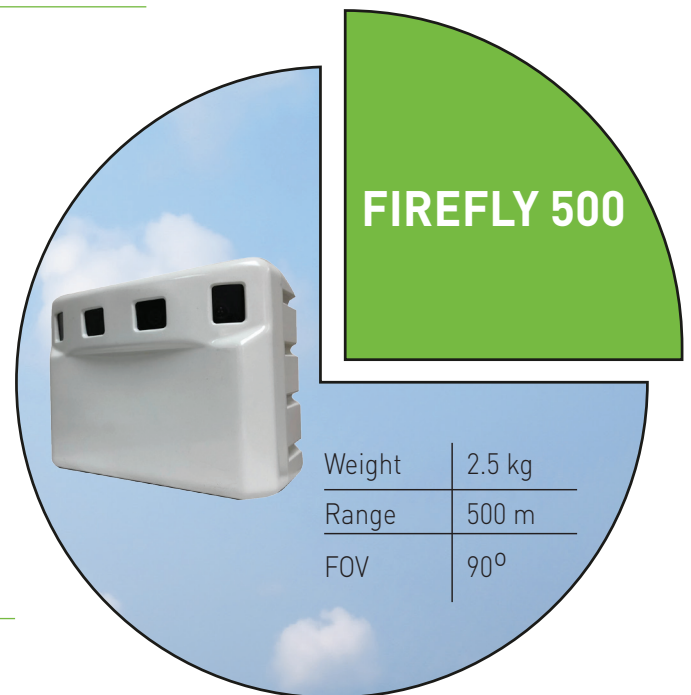
- 4x2MP Low Light Cameras for observation capability
- Medium range staring radar
- Internal Recording
- Minimum energy consumption
- Automatic target classification
- Remotely control
- Multiple communication options (LAN, WiFi, Cellular, UHF)
- Easily integrated with C4I Systems
- Designed for unattended use
- Onvif Protocol

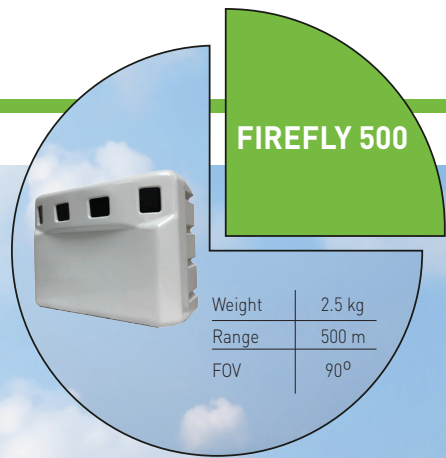
Optional

- Onboard VMD
- Deep Learning Classification
- Fusion between the Radar and the Optics
- Thermal PTZ Imager
- 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

1. Resolution	2MP x4 Low Light Cameras
2. Digital Zoom	x10
3. Field of View	25° x 4 100° Total 14° Vertical
4. Sensitivity	0.001Lux
5. Pitch	3.75um

THERMAL CAMERA (Optional)

1. PITCH	17 μM
2. Resolution	640x480
3. NETD	<40mk
4. FOV	18° Horizontal
5. Pan angle	345°
6. Tilt Angle	+45° ÷ -90°

RADAR

1. Human Detection Range	500m
2. FOV	90°
2. Frequency	5.5GHz

COMMUNICATION

1. Wi-Fi (Optional)	2.4-2.485GHz	(Range 3k- 20km LOS)
2. Ethernet	10/100 Mbit/s	
3. Cellular (Optional)	4G, LTE	
4. UHF	433MHz (Low Bandwidth)	

VIDEO STREAMING

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

POWER

1. Input Voltage	9-32V / POE 48V
2. Power Consumption	30W Ethernet
3. Standby Mode	0.5W
4. Power Modes	Sleep, Radar Only, Full System

MECHANICAL

1. SIZE	185H x 245W x 125L mm
2. Weight	2.5kg

ENVIRONMENTAL

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