



THE ULTIMATE VIRTUAL FENCE SOLUTION



MEDIUM RANGE MULTI-SENSOR SITUATION AWARENESS SYSTEM

The FIREFLY⁵⁰⁰ is a compact multi-sensor system designed for perimeter security using medium-range Radar, Automatic Target Classification, two panoramic pictures build by four HD, and Low Light Cameras and four uncooled thermal cameras.

The all-in-one system detects and identifies objects via the different sensors and transmits the analyzed data to a centered or portable command-and-control.



WEIGHT: 6.5kg
FIELD OF VIEW: 90°
RANGE: Up to 500m

APPLICATIONS

The FIREFLY family is the optimal cost effective solution for:



Border
Protection



Airport
Security



Critical
Assets



Public
Transportation



Driver Vision
Enhancer



SYSTEM SPECIFICATIONS

Day Channel	
Resolution	2MP Low Light CMOS
Digital Zoom	x4
Field of View	92° (H) x 14° (V) ±10%
Sensitivity	0.001Lux (IR Cut Off)
IR Channel	
Detector type	Uncooled LWIR
Resolution	640x512
Pitch	12μ
Field of View	86.5° (H) x 18.3° (V) ±10%
NETD	<40mk
RADAR	
Human Detection Range	Up to 500m
Sensor type	High resolution MIMO digital beam
Covergae	120° (H) x 30° (V) ±10%
Frequency	C-BAND (5.5GHz)
Range Accuracy	<1m
Azimuth Accuracy	1°
Target Detection Speed	0.3-30m/s
Interfaces	
Input Voltage	12-32V (0.2V ripple)
Power Consumption	60W Peak, 45W Nominal
Video Compression	H.264
Ethernet (LAN)	ONVIF
Wierless Communication	Cellular (4G/5G LTE), Wi-Fi
MECHANICAL	
Dimensions	255 x 245 x 173.5mm
Weight	6.5kg
ENVIRONMENTAL	
Operating Temp.	-20°C to 55°C
Waterproof	IP67



KEY TECHNICAL FEATURES

- ☞ Medium Range Staring Radar
- ☞ IR Channel panorama
- ☞ Daylight Channel panorama
- ☞ Minimum Energy Consumption
- ☞ Easily Integrated With C4I systems
- ☞ Automatic Target Classification
- ☞ Video Motion Detection
- ☞ Remotely Controlled
- ☞ Multiple Communication Options

OPTIONAL

- ☞ Backpack
- ☞ Tripod
- ☞ Ruggedized Tablet with C2
- ☞ Wireless Communication
- ☞ External Batteries

