



FIREFLY 140 XV



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

SYSTEM DESCRIPTION

The FIREFLY 140 XV is a compact multi-sensor system designed for perimeter security using short-range Radar, two Thermal Cameras, two HD Day Low Light cameras, Target Classification and Video Analytics.

Objects detected by the Radar, or Video Analytics are transmitted to the Command Control Center or recorded locally on the system for future extraction. Using the ONVIF protocol, the FIREFLY 140 XV is easily integrated with any C4I system for video storage and remote control.

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

WEIGHT: ~ 3 kg.
FIELD OF VIEW: 120°
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 XV MAIN TECHNICAL FEATURES

- Day/Night Low Light cameras For Observation Capabilities
- Short-range Staring Radar
- Internal Recording
- Minimum Energy Consumption
- Automatic Target Classification

- Remotely Controlled
- Multiple Communication Options (LAN, Wi-Fi, 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 Wireless communication
- External Batteries

SYSTEM PERFORMANCE

| DAY CAMERA | |
|-----------------|--|
| Resolution | 2MP x2 Low Light Cameras 0.001Lux |
| Field of View | 60° Horizontal each camera, 120° Total |
| Pitch | 5.8 µm |
| DRI | Detection 370 Recognition 180m Identification 15m (face) |
| RADAR | |
| Detection Range | 140m |
| FOV | 120° |
| TX Power | 20 dBm |
| Radio Frequency | 24.00 - 24.25 GHz |
| FCC Approved | Yes |
| VIDEO STREAMING | |
| Compression | H.264 One panoramic picture with digital zoom |
| Multi-Cast | TS 4 multi streams 2HD and 2 D1 |
| Unicast | RTSP MPEG4 |
| Bandwidth | 0.1-4Mbit/s |
| MECHANICAL | |
| Size | 185H x 245W x125L mm Without antennas |
| Weight | 3kg |

| THERMAL CAMERA | |
|-------------------|--|
| Resolution | 640x480, 17 µM |
| NETD | <35/50mk |
| FOV | 57° Horizontal x2 |
| DRI | Detection 310m Recognition 110m Identification 50m |
| COMMUNICATION | |
| Wi-Fi | 2.4-2.485GHz Optional |
| 1W | TX Power |
| Ethernet | 10/100 Mbit/s |
| Cellular | 4G, LTE Optional |
| POWER | |
| Input Voltage | 9-32V / POE Type 3 42.5-57.0 V |
| Power Consumption | <25W 2 Low Light cameras and Radar (<30W with 2 Thermal cameras) |
| Standby Mode | >0.2W |
| ENVIRONMENTAL | |
| Operating Temp. | (-30°)÷55°C |
| Vibration | 2g RMS for each axis |
| Environmental | IP67 |