

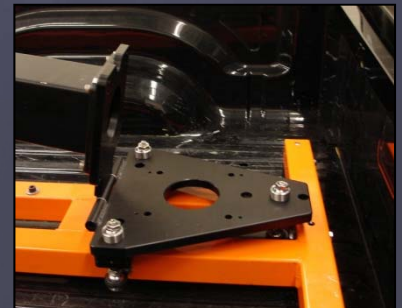
# mSENTRY™

Secure & Deter Seven Square Miles In Tough Terrain



*mSentry 4x4*

Mobile Surveillance & Deterrence  
PATENTS PENDING



**JETprotect Corporation**  
Aerospace Safety & Defense

**ActiveSentry™**



# mSENTRY™ MOBILE SURVEILLANCE & DETERRENCE

Radar Plus Thermal, Near-IR and Visible Cameras Geo-Aligned  
 Compact Frame and 7' Hinged Mast Fits Standard 4x4 Truck  
*Photonic Deterrence™* Bore Sighted to Cameras



PATENTS PENDING

## Security Solution

### General:

4x4 Truck for Rugged Terrain Access  
 Automated 7 Square Mile Surveillance  
 Multiple Target Tracking & Archive  
 RF/IR/NIR/R-G-B Image Capture  
 Red/White/Blue/NIR Deterrence  
 Embedded Solution Processor  
 IP LAN/WAN Communication

### Mechanical:

**Chase X1™** 53 cm Wingspan  
 26 cm Ht x 32 cm Deep  
 12.5 Kg

**VFR™ Radar** 46cm Dia x 33cm ht  
 9.5 Kg

**4x4 Rig** Stick7™ Mast  
 Isolated Bed Frame  
 Hinge & Leveling Plate  
 Hard Cases & Rack

### Electrical:

**Power System** 24VDC, 84Ahr Battery  
 GEL Capacity Gauge  
 Volt & Amp Meters  
 Wireless Router - USB  
 AC Charger Included

**Power Draw** 130W All On

### Optical Output:

**LED Emission** 3,500 Lumen Total  
**Colors** Red, White, Blue, NIR  
**Alignment** 12° Beam, Aligned  
**Power Draw** 51W

### Radar:

**Radial Ranges** .7Km/1.4Km/2.8Km  
**Penetrate** Rain, Fog, Snow, Night  
**Emission** Safe

### Temperature:

-30 to +65 C Standard  
 -40 to +75 C Optional



## ChaseX1™

### Interrogator™:

IR Array Size	640x480
IR Detector	VOx
IR Lens	100mm, Athermalized
Visible/NIR Size	640x480
Visible/NIR Detector	CCD
Visible/NIR Lens	Vari-focal, 36x Zoom
LAPL™ Illuminator	Class IIIb
Embedded EP1™ Processor	ATOM™ DualCore
	4GB RAM,
	64GB SSD

### Chase 8™ Positioner

Pan/Tilt Torque/Pointing	12Nm/.01° 2*sigma
Pan Movement Range	360°, Slip Ring
Pan Speed (Resolution)	60°/s (.001°)
Tilt Movement Range	+20° to -40°
Tilt Speed (Resolution)	60°/s (.001°)

### CL3500™ Illuminator:

Continuous Output	3,500 Lumens
LED Independent Power	3 Banks
Control	Brightness/Time

## Software

### General:

Autonomous Site Security Solution  
 Window's Xp PRO OS  
 Simple Setup & Calibration  
 Run From Cab or iPad  
 Operate from Stand-Off Position

### Sensor Analytics:

EDGEserver™  
 Rapid Background Acquisition  
 Motion Detection  
 Segmentation & Metric Export  
 IR/NIR/Visible Camera Control

### RADserver™

FMCW radar target processing

### CHASEserver™

Cameras, LAPL, CL & P/T Control  
 DVR

### CSserver™

Counter Surveillance Metrics  
 GigE VTA Interface

### Cortex™

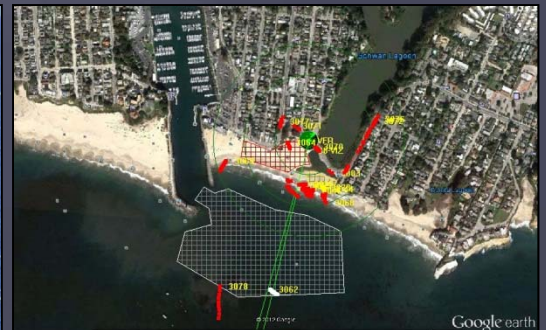
Calibration/Command/Control  
 Map & Sensors Geo-Calibration  
 Simple Zone & Rule Creation  
 Actions Upon Zones Breached  
 Hosts on Laptop or on Interrogator™

### Lieutenant™

Human Portal at Site or Over Cloud  
 View & Control Site Sensors  
 Instant Alert Notification  
 Multiple Site Monitor  
 iPhone/iPad Application on iTunes

### Integrator Support:

Open Source ASCII Interface  
 XML ICD0100 Proxy Server  
 SDK Third Party Support



## JETprotect Corporation



### Research / Manufacturing

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Authorized Integrator