

SentryMobile UMDP

Urban Mobile Detection Platform



The Urban Mobile Detection Platform (UMDP) is a self-powered platform that allows for the rapid deployment of CBRN, surveillance, and CUAS. The UMDP provides resources to remote locations where grid power is unavailable or unreliable.

The UMDP was designed to be a scalable solution that allows the addition of a sensor suite based on the customer's requirement or mission at hand. The UMDP is a rugged, heavy-duty platform designed to be rapidly deployed in remote areas for continuous and autonomous monitoring.

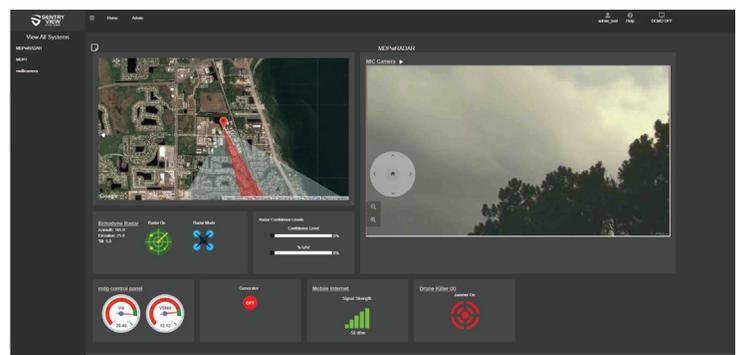
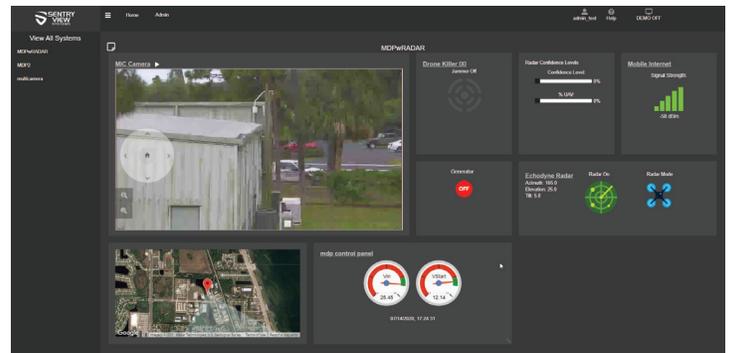
The UMDP has optional subsystem designs currently available that include CBRN, surveillance, and CUAS. The subsystems are available as one complete system or they can be added as new technology becomes available or when the customer has appropriate budget for purchase.



Flexible Intuitive User Interface

The platform's dashboard provides a clean, intuitive interface for monitoring platform operations. The dashboard displays the UMDP radar map coverage, camera view feeds, and system status panel. The position of the jamming cone can be displayed when activated (red cone in upper graphic). The panels on the dashboard can also be rearranged by the operator for better ergonomics or to adapt for variable viewing conditions.

In addition to collecting and reporting different threats and activities in the environment, the UMDP's system provides status on system function and alarms for unauthorized access or tampering



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The IXI DroneKiller® Counter UAS Technology employs the use of Software Defined Radio (SDR) Technology. The IXI DRONEKILLER® can disable drones operating on 7 frequency bands and is lethal up to 1000 meters. The IXI DRONEKILLER® enables military and security forces to thwart the use of all consumer drones by enemy combatants.



The radar(s) detects objects in the platform's domain of awareness. It has high fidelity identification of UAS as well as software that integrates with the camera system.



The camera provides real visual capability wherever the platform is placed. It is available with a forward looking infrared camera to deliver the ability to identify objects at night or in a thermal capacity.

UMDP General System Specifications

Type	Urban Mobile Drone Detection Platform
Size	70.25" (L) x 44.25" (W) x 42.00" (H stowed) 24 .00" (H deployed)
Weight	~1300lbs.
Solar Power¹	270 Watts 30.8 Volts 8.78 Amps (NMOT) ²
Generator/Fuel	2500 Watts 120 Volts 20.8 Amps 60 Hz / Liquid Propane
Batteries	12 Volt AGM (x8)

Radar	Echodyne's EchoGuard® 3D Surveillance Radar
Frequency	24.45 to 24.54 GHz in any 200MHz sector
Field of View	120° azimuth x 80° elevation
Range Vehicles	Aircraft <3.5km, Human <2.2km, sUAS <1km

Jammer: IXI Drone Killer

Range up to 1000 meters	Environmentally resistant
433 HHZ	Integrated with the UMDP and Sentry Nexus Software for remote operating ability
915 MHZ	
2.4 GHZ	61cm L x 24cm H x 10cm W
5.2 HAZ	8.5 lb
5.8 GHZ	Right or left hand operation
GPS L1/L2	Environmentally resistant
-10 to + 40C operating temperature	

Camera	Bosch MIC IP Starlight 7000i
Imager	1/2.8 type Exmor R CMOS sensor
Lens	30x motorized zoom 12x digital 4.3 mm to 129 mm F1.6 to F4.7
FOV	2.3° to 63.7°
Pan Range	360° Continuous
Tilt Range	50° to +90°

Communications	Options include LTE, point to point, RF, MANET, MPU5
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CBRN Sensors	Ability to add CBRN Sensor suite determined by customer requirements or mission at hand
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1. Optimum; 2. Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/ m 2, spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.; 3. Enabled separately.

*The Sentry View System's UMDP will interface with the Medusa System of Systems