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COBRA-SHIELD W/J

7.62/12.7mm

Remote conrtolled Weapon System

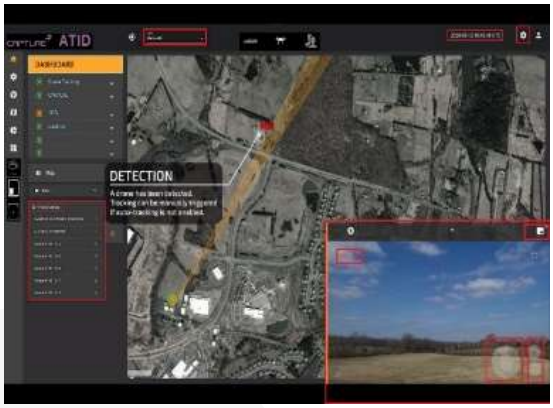
COBRA is a cutting-edge Remote-Controlled Weapon System that can be mounted on any type of vehicle or platform. Capable of detecting various types of Small Unmanned Aerial
Vehicle Drones (SUAVDs) within a range of up to 11 kilometers.

* The picture is for illustration purpose only, weapon and ammunition are not provided.

Key Features

- cUAS All-in-One System Drone Detection UP 11 km
- Operates up to 50 caliber (12.7) machine guns
- Equipped with Electro-Optical Gimbal IO/IR
- Multi classification capability in Realtime
- 360° tracking system
- Operating in Ku band
- Jamming: 9 Channels 0.43Ghz-5.8Ghz
- Stabilized system - Designed for dynamic or static operation
- Lightweight and compact gimbal
- Dimensions: 120 x 85 x 75 cm

Equipped with a built-in C2 graphical user interface, and powered by AI analytics



- Picture in picture video
- Automatic object tracking
- Moving map software

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| System parameters

GENERAL	
Dimensions	80 x 70 x 60 cm
Rotation Diameter	1.3 m
Unit weight	75 kg
Input Voltage	24 – 32 VDC

MAIN PEDESTAL	
Pan / Tilt Range	Pan: Up to 270° ; Tilt: -20° – +60°
Speed	0.05 – 40 °/s

| Camera parameters

		RCWS-900-1C-CS7.62/12.7	RCWS-900-1C1T150-CS7.62/12.7	RCWS-900-1C1T150HD-CS7.62/12.7	RCWS-900-1CU1T225-C7.62/12.7
DAY / NIGHT	Image Sensor	1/1.8" Sony Starvis progressive scan CMOS			
	Focal Length	6.8mm-300mm, 42x Optical Zoom			11.3mm-1000mm, 88x Optical Zoom
	DORI Distance (Human)	Det': 2,900m ; Obs': 1,160m ; Rec': 586m ; Ide': 293m			Det':20,000m; Obs':7,900m; Rec': 4,000m; Ide':2,000m
	Day / Night	Electrical, ICR (Auto/Manual)			
	Network Protocol	RTSP, TCP			
	Communication Protocol	SONY VISCA, TCP I/P			
THERMAL / SWIR	Image Sensor	-	Uncooled VOx microbolometer		
	Resolution	-	Sensor- 640 x 512 ; 50Hz: 25fps	Sensor- 1280 x 1024; 25fps	Sensor- 640 x 512 ; 25fps
	Focal Length	-	30mm~150mm, 5x Optical / 4x digital Zoom	30mm~150mm, 5x Optical /8x digital Zoom	25~225mm, 9x Optical / 8x digital Zoom
	Network Protocol	-	RTSP, TCP		
	Pixel size	-	12 µm		
	Spectral Range	-	8-14 µm		

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| Radar parameters ES

RF Transmit Power	160W (52 dBm) nominal, 180W (52.5dBm) maximum
UAS Tracking Ranges	Group 1 (-20 to -10 dBsm): 2.5 to 4.8 km Group 2 (-10 to -5 dBsm): 4.8 to 6.4 km Group 3 (-5 to +5 dBsm): 6.4 to 11.4 km Note: Tracking ranges listed are highly environmentally
Operation center frequency	15.4-16.6 GHz
Frequency Accuracy	± 10ppm (± 250kHz) including temperature and aging 8 years
Waveforms	Multiple LFM Bandwidths, Pulsed Doppler
Polarization	Linear, Horizontal
Field of regard	Azimuth ± 65° / Elevation ± 45°
Realized Gain at broadside	27 dBi (max gain)
Max Tracks	Up to 1000 simultaneous tracks
Track updates	1-10 Hz (EKF requested association update rate)

| Jammer parameters

Frequency Band (*)	433 MHz; 900 MHz; GNSS 1.2 & 1.5 GHz; 2.4 GHz; 5.8 GHz
Coverage	1 - 10 km depending on configuration and regulation requirements
Power consumption	Pdc 500 W

* Additional frequencies can be added and customized based on customer requirements.

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