

COBRA-SHIELD W/J

7.62/12.7mm

Remote Controlled 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, GEO Heading
- Operating in Ku band
- RF jamming system: 9 Channels 0.43Ghz-5.8Ghz
- Stabilized system - Designed for dynamic or static operation, Inertial stabilization
- GUI detection and tracking with different modes: Manual | Semi Auto | Auto
- Lightweight and compact gimbal
- Environment temperature range: -40° - +60°
- 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

| System parameters

GENERAL	
Dimensions	120 x 85 x 75 cm
Rotation Diameter	1.3 m
Unit weight	75 kg
Input Voltage	24 – 48 VDC
MAIN PEDESTAL	
Pan / Tilt Range	Pan: Nx 360° ; Tilt: -30° – +80°
Speed	0.01 – 120 °/s
Accuracy	0.016° (1 Arcmin)

| Camera parameters

		RCWS-900-1C-CS7.62/12.7	RCWS-900-1C1T150-CS7.62/12.7	RCWS-900-1C1T150HD-CS7.62/12.7
DAY / STARLIGHT	Image Sensor	1/1.8" Sony Starvis progressive scan CMOS		
	Focal Length	6.8mm-300mm, 42x Optical Zoom		
	DORI Distance (Human)	Det': 2,900m ; Obs': 1,160m ; Rec': 586m ; Ide': 293m		
	Day / Night	Electrical, ICR (Auto/Manual)		
	Video output	RTSP		
THERMAL / SWIR	Image Sensor	-	Uncooled VOx microbolometer	
	Resolution	-	Sensor- 1280 x 1024; 25fps	
	Focal Length	-	100mm, 4x digital Zoom, 12 µm	30mm~150mm, 5x Optical / 8x digital Zoom, 12 µm
	Video output	-	RTSP, HTTPS	
		-	8-14 µm	

| Jammer parameters

Frequency Band (*)	433 MHz; 900 MHz; GNSS 1.2 & 1.5 GHz; 2.4 GHz; 5.8 GHz
Coverage	2 km effective range
Power	Power output 10 W

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



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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 View	Azimuth ± 120° / Elevation ± 90°
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)

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