

COBRA-SHIELD 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
- Operating in Ku band
- Stabilized system - Designed for dynamic or static operation
- Lightweight and compact gimbal
- Dimensions: 130 x 75 x 55 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	130 x 75 x 55 cm
Rotation Diameter	1.3 m
Unit weight	75 kg
Input Voltage	28 – 48 VDC

MAIN PEDESTAL

Pan / Tilt Range	Pan: Nx 360° ; Tilt: -20° – +60°
Speed	0.01 – 100 °/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 / STARLIGHT	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':16,000m; Obs':6,300m; Rec': 3,200m; Ide':1,600m
	Day / Night	Electrical, ICR (Auto/Manual)			
	Network Protocol	RTSP			
	Communication Protocol	SONY VISCA, HTTPS			
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, HTTPS		
	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)

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