

COBRA 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.

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

Key Features

- Micro-Doppler detection and differentiation of both drones & birds
- Operating in K band
- UAV Detection < 2km
- Multi classification capability in Realtime
- Optical tracking: Day/Night and Thermal
- 360° tracking system, GEO Heading
- Lightweight and compact gimbal
- Operates up to 50 caliber (12.7) machine guns
- Stabilized system - Designed for dynamic or static operation; Inertial stabilization
- GUI detection and tracking with different modes: Manual | Semi Auto | Auto
- Equipped with Electro-Optical Gimbal IO/IR
- Environment temperature range: -40° – +60°
- Dimensions: 103 x 124 x 80 cm; 135 x 124 x 80 cm (M240); 178 x 124 x 80 cm (M2).

**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 | 103 x 124 x 80 cm ; 135 x 124 x 80 cm (M240) ; 178 x 124 x 80 cm (M2). |
| Rotation Diameter | 0.83 m ; 0.83 m (M240) ; 0.96 m (M2). |
| 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 | |
| | Spectral Range | - | 8-14 μm | |

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Contact us at:

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| Radar parameters EG

| | |
|----------------------------|--|
| RF Transmit Power | 3.2 Watts CW (35 dBm) |
| UAS Tracking Ranges | Minimum 25 meters, effective cUAS 1500m, Maximum 5000 m |
| Operation center frequency | 24.05 - 24.25 GHz |
| Frequency Accuracy | ± 10ppm (± 250kHz) including temperature and aging 8 years |
| Waveforms | FMCW 32 chirp CPI with 45MHz swept BW over 200uSec SAWTOOTH (default) with power blanking. |
| Polarization | Linear, Horizontal |
| Field of View | Azimuth ± 120° / Elevation ± 90° |
| Realized Gain at broadside | 21 dBi typ. (safety absolute maximum gain of 22 dBi) |
| Max Tracks | 20 simultaneous tracks dynamically allocated via i-SCAN |
| Track updates | 5-10 updates /sec (for each track) depending upon Operation Mode |

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