

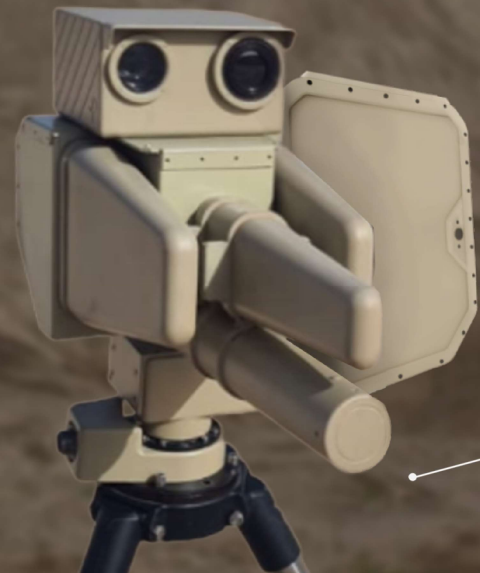
CapShield™ – cUAS

All in One System: Radar ES, Optical, Jammer



CapShield™ platform

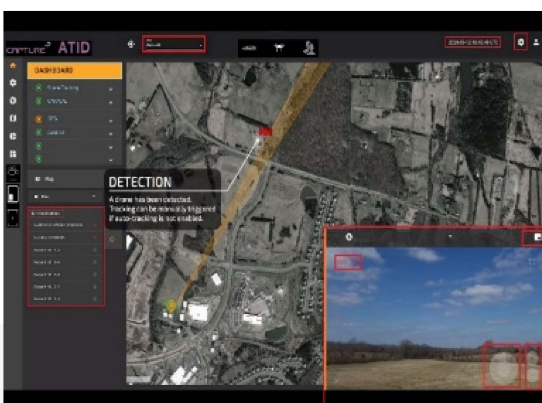
A Micro-Doppler radar, mounted on a lightweight 360° tracking system, capable of detecting various types of Small Unmanned Aerial Vehicle Drones (SUAVDs) within a range of up to 11 kilometers.



Key Features

- cUAS All-in-One System
- Micro-Doppler detection and differentiation of both drones & birds.
- Operating in Ku band
- UAV Detection UP 11 km
- Multi classification capability in Realtime
- Optical Day/Night and Thermal tracking
- Jamming: 9 Channels 0.43Ghz-5.8Ghz
- Dimension – Approx. 80 x 60 x 60 cm
- 360° tracking system
- Weight: Approx. 45kg

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

Pan / Tilt Range	Pan: 360°/360° xN ; Tilt: -45° to +45°
Pan / Tilt Speed	Configurable, pan: 0.01° ~ 40°/s
Waterproof	IP66
System Power parameter	24V-28V up to 25A
Dimensions (L*W*H)	Approx. 80 x 60 x 60 cm
Control mode	Speed, position
Ethernet	TCP / IP

| Camera parameters

	ATID-300-1ES-1C-JAM	ATID-300-1ES-1C1T150-JAM	ATID-300-1ES-1CU1T150-JAM	ATID-300-1ES-1CU-1T150HD-JAM	ATID-300-1ES-1CU-1T225-JAM	ATID-300-1ES-1CU-1SW-JAM
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			1/2" SONY InGaAs Global Shutter SWIR Sensor IMX990
	Resolution	-	Sensor- 640 x 512 ; 50Hz: 25fps	Sensor- 1280 x 1024; 25fps	Sensor- 640 x 512 ; 25fps	Sensor- 1.34MP ; 60fps@1280x1024
	Focal Length	-	30mm~150mm, 5x Optical / 8x digital Zoom	30mm~150mm, 5x Optical /4x digital Zoom	25~225mm, 9x Optical / 8x digital Zoom	17mm~510mm, 30x Optical Zoom
	Network Protocol	-	RTSP, HTTPS			
	Pixel size	-	12 μm			5 μm
	Spectral Range	-	8-14 μm			1000~1700nm



Contact us at:

| 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	0 - 10 km depending on configuration and regulation requirements
Power consumption	Pdc 0 - 500 W

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



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