

ATID System- Innovation for UAV's Threat

An Anti-Threat Intelligent Detector called ATID for real time detection and tracking of UAVs such as drones and quadcopters. Along with UAVs the system can identify and track humans, aircrafts, ships and more.

Unique one-unit positioner system developed by Capture Systems includes a wide range of optional add-ons with different configurations to answer any need. ATID can also be customized upon customer's request.



Pan & Tilt System Specifications

System Type	ATID Standard 100	ATID High Performance 225
Positioner	Caracal High Performance	
Specifications		
Pan movement	Nx360° or up to 345° (no slip-ring)	
Tilt movement	-30°+80°	
Communication	Ethernet TCP	
Environmental protection	IP65, Humidity, Temperatures & more...	
Power consumption [V] [A]	24-48V & up to 6Amp	
Max Acceleration [°/Sec ²]	Up to 100	
Speed (balanced) [°/Sec]	0.01-40	
Resolution [°]	0.007	
Stabilization system- optional		
Stabilization Accuracy [°]	±0.25°	
Stabilization Sensor	Mems	
Tracker system- optional		
GPS Stabilization by Datum point	±0.5°	
GPS Unit	LLA	

- Can be customized upon customer's request

Camera Specifications

Day Camera recommended by Capture Systems to fit perfectly to your needs

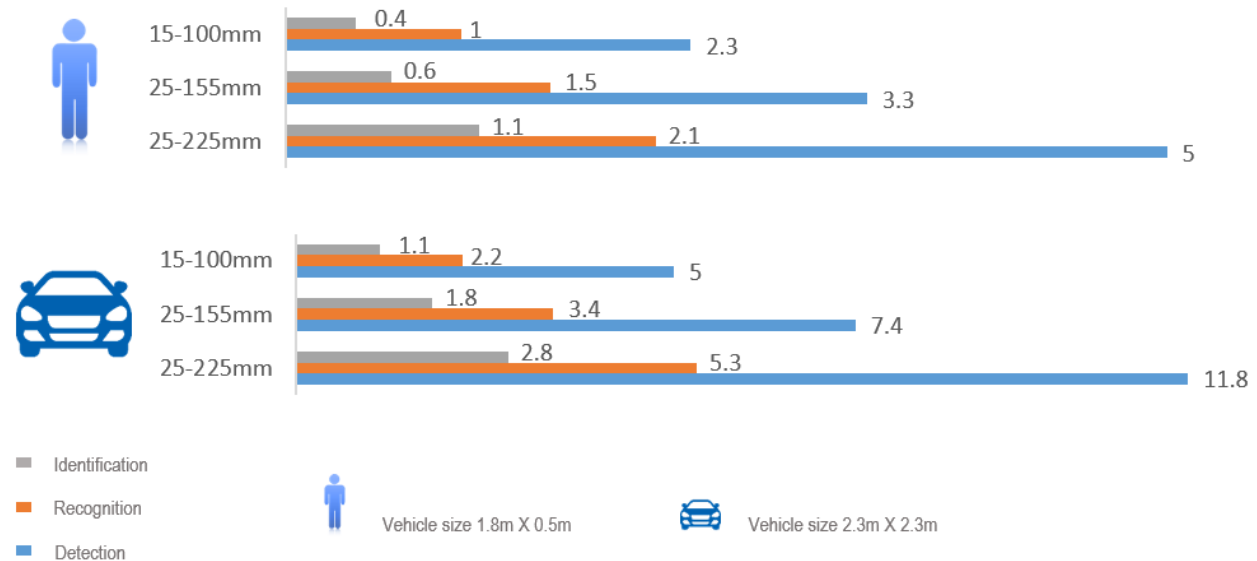
Day Camera	Clear Full HD, Auto Focus, 4.3-129mm
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We recommend 3 types of Night Cameras completely fitted to any operation mode

Night Camera	CEDAR 15-100	DEKEL 25-155	KEW 25-225
Sensor	640 x 480 pixels x 17 microns		
Lens			
Focal Length / F#	15 - 100mm / F1.4	25-155mm / F1.4	25-225 mm / F1.5
FOV (degrees)	Wide: 43° (H) x 31.5° (V) Narrow: 6.15° (H) x 4.6° (V)	Wide: 20° Narrow: 4°	Wide FOV: 24.3° (H) x 18.6° (V) Narrow FOV: 2.8° (H) x 2.1° (V)

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Base IMU Specifications

Miniature, high-performance IMU and AHRS combines 3-axis accelerometers, 3-axis gyros, 3-axis magnetometers, a barometric pressure sensor and a 32-bit processor.

Base IMU	VN-100
Static Pitch/Roll	0.5°
Dynamic Pitch/Roll	1.0°
Gyro In-Run Bias (typ.)	5° / HR
IMU Data	800 Hz
Accelerometer Range	±16 g
Gyroscope Range	±2000° / sec

GPS Specifications

Dual antenna, GPS based heading with integrated INS delivering real time position accuracy.

GPS	GNSS Compass
Horizontal Position Accuracy	0.8 m
Vertical Position Accuracy	1.5 m
Velocity Accuracy	0.02 m/s
Roll & Pitch Accuracy	0.4°
Heading Accuracy	0.2°
Supported Navigation Systems	GPS L1, L2, GLONASS G1, G2, GALILEO E1, E5b, BeiDou B1, B2

Threat Neutralization Options

Weapon:

Up to Ø7.62

Weapon: can be installed with top picatinny to the systems

Weapon type options: personal weapon, small-arms weapon, SR25, M16, M4, TAVOR 7, CARMEL, ARAD, NEGEV, GALIL

Detector RF:

360° RF sensor, capable of providing information to the user, by searching for control signals and video feeds from drones

Frequencies	2.4 & 5.8 GHz
Hemispherical coverage	360°
Detection time	< 5sec known target
Detection range	1 km line of sight

Jammer:

Designed for mitigating(jamming) radio frequencies used for UAVs control and navigation

Jammer	
Frequency Band	433 MHz; 900 MHz; 2.4 GHz; GNSS 1.5 GHz; 5.8 GHz
Independent radio module	For each frequency range
Control power	Ability to control each radio transmitter
Coverage	1 - 10 km depending configuration and regulation requirements
Stop/start	Automatic timer
System modules	Designed for full outdoor installation
Scan – detect – identify – jam	Up to 1km
Power consumption	500 W; (1500 W – 100 W system)

Customized damage enhancements are optional



Tracking & Detection Specifications

- Detection of different types of targets such as Humans, Vehicles, Ships and Drones
- The system can detect up to 5 different targets at once
- Drone classifier

Command & Control options

- Capture ICD for self-implementation
- Capture Command and Control application (internet connection required for full operation)
 - Live video streaming of the system camera/s
 - Live view of the system over a map
 - Estimated target location over the map
 - Live data streaming from the systems sensors (MEMS, GPS, etc.)
 - Cameras control – Zoom, Focus, etc.
 - Run the system to selected location using the map or the video streaming

For customized ATID System please contact our sales team: sales@capture-sys.com