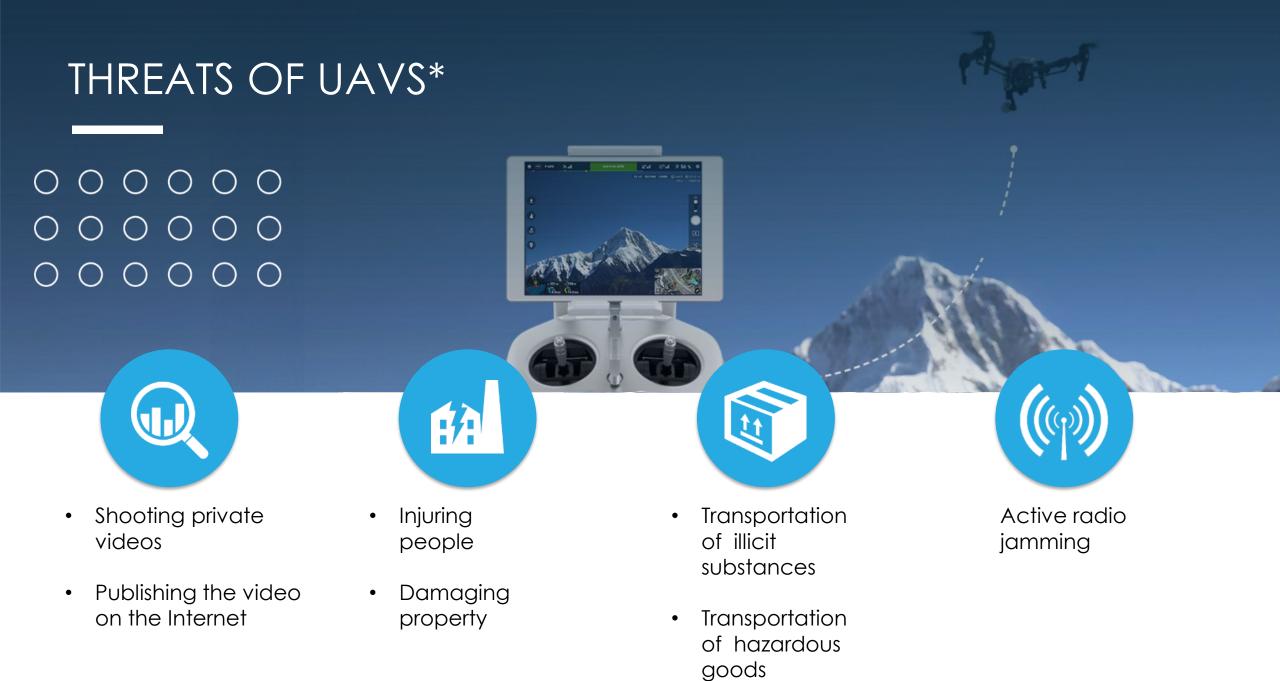
SENESYS XDR

Anti UAV Systems – Tracking & Jamming. Privacy. Security. Peace. SENESYS

SENESYS



* Unmanned Aerial Vehicles (drones)

GLOBAL MARKET OF SMALL UAVS

- The market of UAVs is growing rapidly
- Small UAVs are the most widespread and they are becoming dangerous
- Measures to avert threats related to using small UAVs are required

150 000

Small UAVs to be registered, according to the Federal Air Transport Agency

90 %

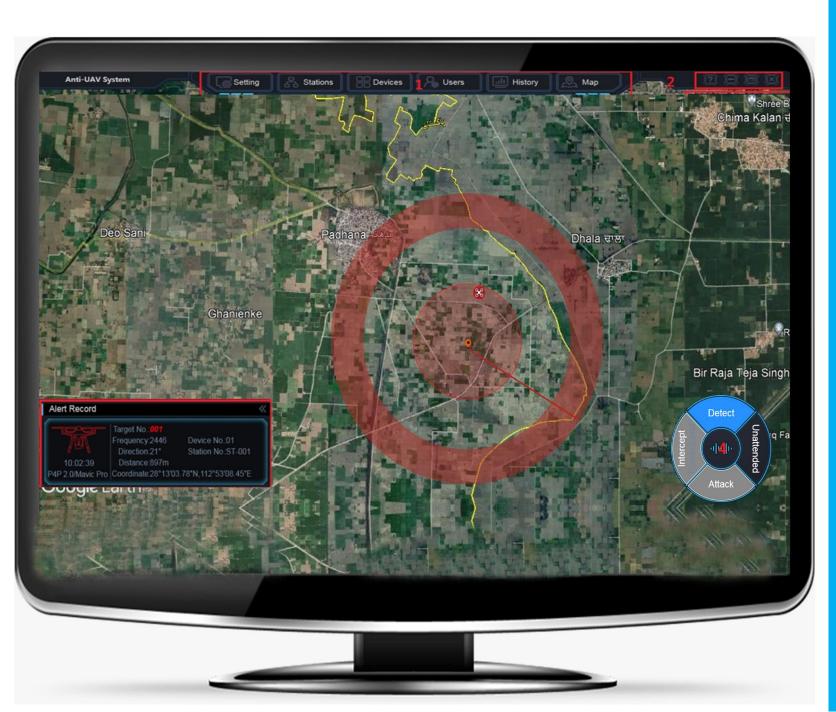
of UAVs are from DJI company

3 000

Incidents with UAVs (according to mass media)







SXDR – the operator's view

The operator receives enough information to make a decision:

- pictograms of detected drones on the site map
- tracks of the drones
- range, speed, azimuth and altitude of the detected drones

The security service receives the information about the approaching drones required for further counter action in the real-time mode OR enable Auto Jamming for 24x7 unmanned operation.

SXDR – guarding individual and corporate property

Individual property

Transport infrastructure sites Fuel and energy sites

Production sites and warehouses

Integrators of security systems

SXDR SYSTEM FUNCTION

 RF Scanner or RADAR searches & detects the moving target in low altitude (100~1000m) and super low altitude (under 100) in all-directions and in all-weather conditions. It can detect the UAV target and generates early warning by analyzing and recognizing the UAV control signals and data link return signals.

> Target Detection

Situation Display

- The Command Center receives the Target Info from the Detection end and Displays the Real Time Status of the Coverage Area. An Audio Warning Alarm is generated upon Intrusion Detection.
- If a Long Range Camera is being Integrated in System, it will give the Visuals of Drone on a Screen in Control Room
- It also shows Target Orientation and Location on an offline E-map.

- Upon Intrusion Detection, the Command System sends Command Signal to Jammer to take Countermeasure via Network Communication Cable.
- The action can be enabled for Manual Control or Automatic Control.

Countermeasure

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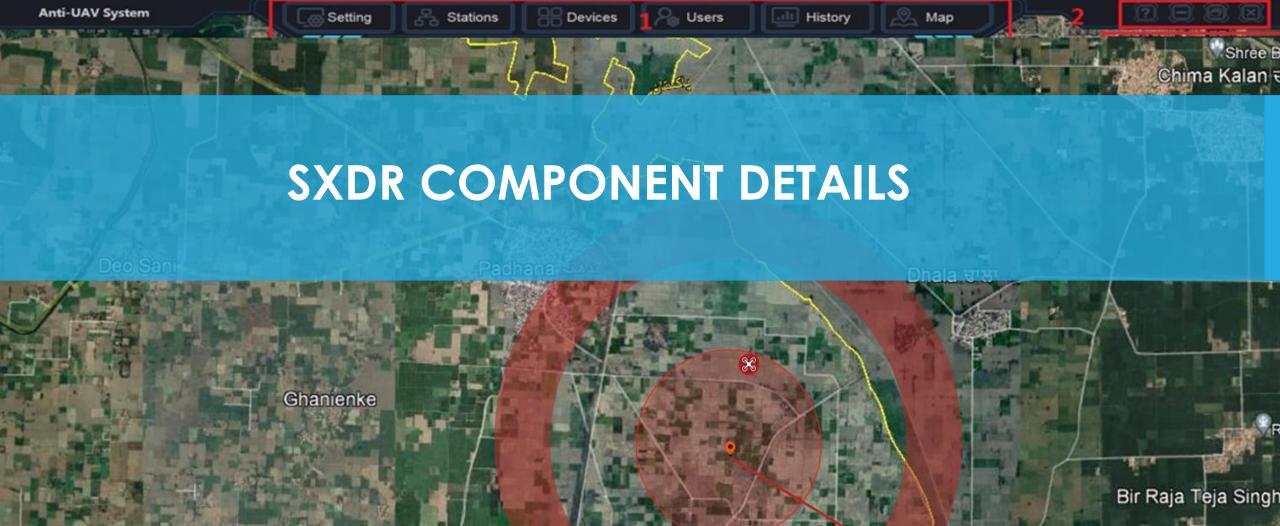
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- The Jammer Transmits the Jamming Signal cutting off the UAV's Controlling Signals and Data link Return Signals. In a result UAV Falls freely on the Ground.
- If the System is Integrated with Hacking Module, the Operator can hack the Drone and can land it safely on any desired location.

Management & Command



Alert Record



Device No:01 Station No:ST-001 Distance:897m

Coordinate:28°13'03.78"N,112°53'08.45"E

Detect Unattended

 $\mathbf{u}[\mathbf{4}]\mathbf{u}$

Attack

Intercept

g Fa

SXDR-F5000 SCANNER

Detection Range	3Kms/5Kms	
Detection Frequency Range	70Mhz to 6Ghz	
Detection Signal	UAV Digital Transmission Signal, UAV Remote Control Signal(Return Link Signal)	
Detection Direction	360 Degrees	
Detection Accuracy	≤3° (RMS)	
Detection Time	≤3 Sec	
Communication Port	LAN	
Positioning	GPS Enabled; BDS B1/B2 + GPS L1/L2+ GLONASS L1/L2+Galileo E1/ E5B	
UAV Library	Auto Matching Updated Library 2022 for Identification Matching	
Power Supply	AC 110-220V	
Power Consumption	≤20Watts	
Device Dimension	D 455 x H 265mm	
Installation Method	Fixed or Portable Tripod	
Weight	<8Kgs	
Working Temperature	-40° C to +65° C	
Ingress Protection	IP65	

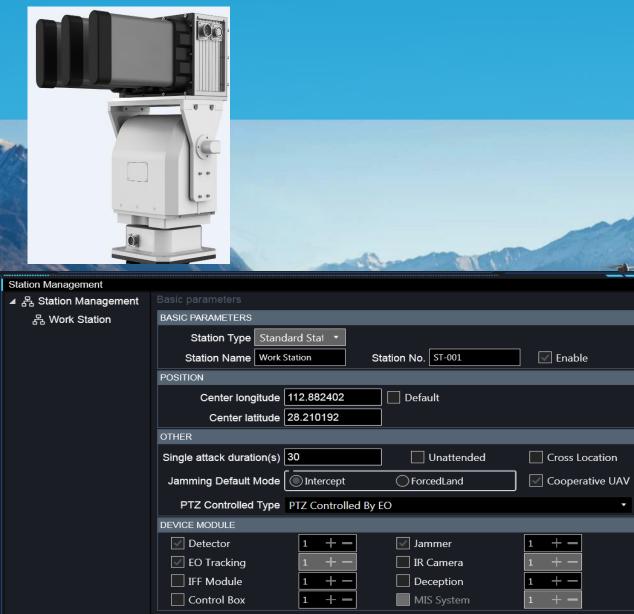


SXDR-R5000 RADAR



Detection Range	3Kms/5Kms	
Radar Type	Ku Band, Chirp System	
Scan Mode	Azimuth Mechanical Scan + Elevation Phase Scan	
Detection Range	Radius 5km@UAV RCS=0.01 _m , 10km for human , 20km for vehicle	
	Accurancy≤8m; resolution≤20m	
Detection FOV	Azimuth 0°~360° elevation : 0~60°	
	Accuracy: azimuth≤0.8°, elevation≤0.6°	
	resolution: azimuth≤2.5°, elevation≤4°	
Simultaneous detection of drones	200 Drones Simultaneously	
Measurement	Distance, orientation, pitching angle,	
	speed	
Tracking mode	TWS/Continuous tracking	
Мар	Superimposed map and sea chart	
Weight	≤20kg	
Dimension	580*380*210mm	
Power Consumption	≤160w	

SXDR-J3000 JAMMER



Add

Save

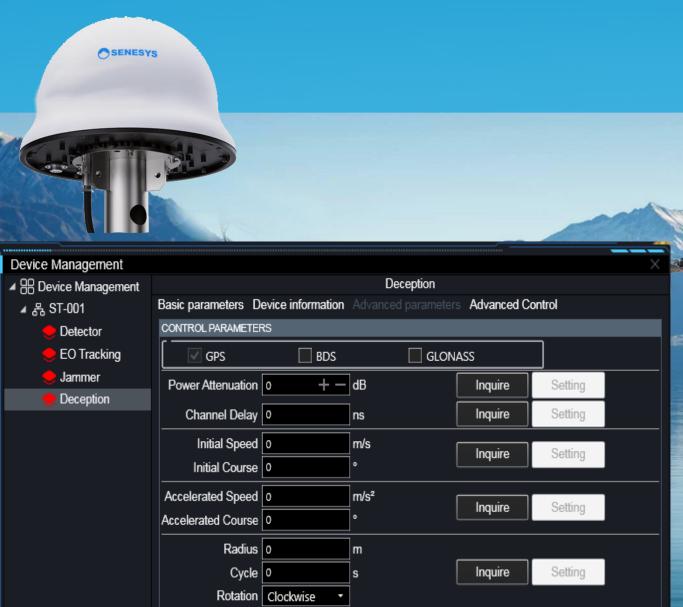
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Jamming Range	3Kms	
Transmit Power	≤10W/ Frequency Band	
Frequency Bands	Navigation: (GPS, BEIDOU, GLONASS) Controller: 400Mhz, 800Mhz/900Mhz/2.4Ghz/5.8Ghz	
PTZ Elevation	-15° to 65°	
PTZ Azimuth Coverage/Speed	0° to 360° , ≥60°/Sec	
Communication Port	LAN	
Power Supply	AC 100-240V/50-60Hz	
Power Consumption	≤20Watts	
Device Dimension	250mm x300mm x550mm including PTZ Stand	
Installation Method	Fixed or Portable Tripod	
Weight	5Kgs (without PTZ), 18Kgs including PTZ	
Working Temperature	-20° C to +60° C	
Ingress Protection	IP65	

SXDR-J5000 JAMMER

	Ys				
Station Management ▲ 吊 Station Management					
品 Work Station	BASIC PARAMETERS				
Station Type Standard Stat					
	Station Name	ork Station	Station No. ST-001	🗹 Enab	le
	POSITION				
	Center longitu	Ide 112.882402	Default		
	Center latitu	de 28.210192			
	OTHER				
	Single attack duration	(s) 30	Unattended	Cross I	Location
	Jamming Default Mo	de 💽 Intercept	ForcedLand	Coope	rative UAV
	PTZ Controlled Ty	pe PTZ Controlled	By EO		-
	DEVICE MODULE				
	Detector	1 + -	Jammer	1 + -	
	EO Tracking	1 +	IR Camera	1 + -	
	IFF Module	1 + -	Deception	1 + -	
	Control Box	1 + -	MIS System	1 + -	
				Add	Save

Jamming Range	5Kms	
Transmit Power	Each frequency band≤100W	
Frequency Bands	Custom output jamming frequency band within 300MHz~6GHz frequency band, support configuration of no less than 20 jamming channels	
Supression Ratio	20:01	
Power Supply	AC100-240V/50-60Hz	
Jamming Angle	360° directional (PTZ implementation)	
PTZ Rotation Range	≥60°/s	
Dimensions	≤400mm*500mm*700mm	
Ingress Protection	IP66	

SXDR-H1K SPOOFER



Range	1Kms
Transmit Power	10mW
Frequency Band	Civil drones navigation frequncy band of GPS/BEIDOU/GLONASS/ Galileo
Power Consumption	≤40W
Protection Range	360°
Warm-up Time	≤5 minutes
Communication Port	RJ45
Power Supply	AC220V/50HZ, DC24V
Weight	≤10kg
Operating Temperature	-40°C~60°C
Ingress Protection	IP65, Ex d IIC

Command & Control Software CNCC



it			×	
agement				
on	BASIC PARAMETERS			
	Station Type Standard Stat 🔹			
	Station Name Work Station	Station No. ST-001	Enable	
	POSITION			
	Center longitude 112.882402	Default		
	Center latitude 28.210192			
	OTHER			
	Single attack duration(s) 30	Unattended	Cross Location	
	Jamming Default Mode	ForcedLand	Cooperative UAV	
	PTZ Controlled Type PTZ Controlled	By EO	•	
	DEVICE MODULE			
	Detector 1 + -	Jammer	1 +-	
	\square EO Tracking $1 + -$	🔲 IR Camera	1 +-	
	IFF Module 1 + -	Deception	1 +-	
	Control Box 1 + -	MIS System	1 + -	

Device Management And Settings

Protection Area Real Time Situation Display

Alarm Info Display on E-Mao

Threat Alarm

Threat Level Classification

Camera Tracking & Visuals(Optional)

Target Orientation & Distance Display

Automatic Attack/ Manual Attack Mode Switching

Event Log

Multiple Systems Integration

The CNCC integrates all device parameter Settings in the system, including detection equipment, photoelectric tracking equipment, jamming equipment, GPS Spoofing equipment, infrared equipment, white-list module, information management center and other parameter settings.

Features:



