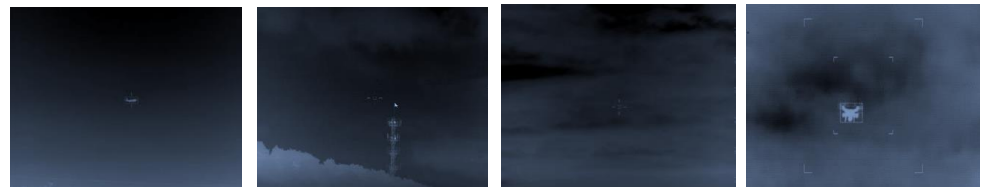# XSENTRY - CUAV

FUNCTION

- Search air targets ranging from 20° to 340°, support single target tracking and distance measurement, support thermal and visible camera tracking simultaneously.

- Manual and automatic tracking and ranging.

- Automatically search and alert the airspace.

- Maintenance mode, in which the optical axis can be calibrated

- Independent air situation reporting (complete information about the target is reported to the radar display terminal via a wireless communication module)

- Positioning and orientation function (the target is reported with due north as the reference)

- Tracking video reporting function (tracking video is reported to the radar control terminal via the wireless communication module as a video stream).

- Long-range wireless air traffic transmission based on L-band single-channel portable nodes.

The XSENTRY-CUAV EOST search and tracking system is mainly used in counter UAV applications.

It is used to provide real-time reconnaissance and warning of incoming drones, UAV, aircraft etc.

The EOST act as the detection, search and tracking sensor, which can be used for standalone and also can be integrated with 3rd party C-UAV system.

XSENTRY - CUAV

XSENTRY-CUAV			
Thermal (Search & Tracking)		**Position Pointing Accuracy**	0.1mrad
Detector Type	VOX Uncooled @12μm	Search Speed	180º / 2.8s
Detector Resolution	1024*1280 (1024*2560 dual-thermal mode)	Max. Azimuth Speed	180º/s
Focal Length	75mm	Max. Tracking Angular Velocity	20º/s
FOV	9°x11° (9°x22° dual-thermal mode)	Max. Tracking Angular Acceleration	40º/s^2
Fps	30Hz	Tracking Accuracy	≤2mrad
Visible (Tracking)		Target Indication Accuracy	≤0.6mrad
Image Sensor	1/2.5 Exmor R CMOS	Min. Smooth Tracking Angular Velocity	0.05 º/s.
Resolution	1920*1080	Ingress Protection	IP66
Focal Length	4.3mm ~ 129.0mm 30x optical zoom, 12x digital zoom	Dimension (H×W×L)	401×236×405mm
Fps	60Hz	Weight	12kg
Focal Mode	Auto/Manual	Power Supply	26V
WDR	Support	Avg. Power Consumption	60W
Day/Night	Auto/Manual	Detection Distance	Thermal	Visible
Defog	Support	UAV (450mm)	1.5km	2km
Electronic Stabilisation	Support	Tactical UAV (4m*3m)	3.5km	6km
DNR	3D DNR	Helicopter	8km	15km
Laser Rangefinder		Aircraft	10km	18km
Operating Range	12km	**Multi-target search and tracking**		
Wave Length	1535nm (Eye-safe class 1)	Search mode	≥20 targets (pitch-centre-fixed, orientation 0º ~360º).	
Range Accuracy	±1m			
Frequency	1-5Hz	Tracking mode	≥2 targets (within 90 º of azimuth, 30º of pitch)	
Servo				
Azimuth Range	20° ~ 340°			
Pitch Range	-15 to +60º			