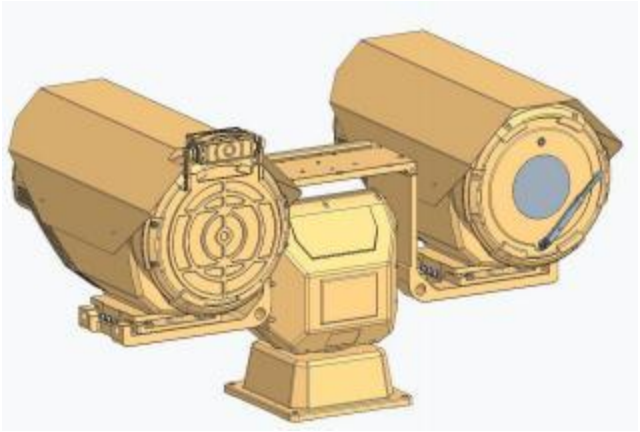
Long Distance Dual Sensor PTZ Thermal Camera

HTV Series Long Range Multi Sensor Thermal Camera is a series of camera specially designed for special purposes, the Camera adopts 4MP visible camera and 640*512 uncooled thermal camera with large caliber.

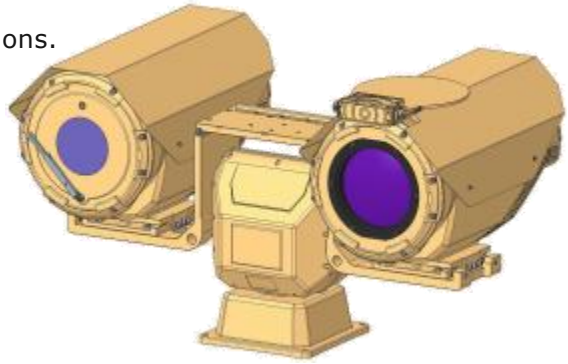
In combination with 360-degree PT, the camera is capable of conducting 24 hours real-time monitoring within 1km-40km.

With built-in technical grade control electronic system, the camera's functions like zooming, focusing and video switch can be easily completed. The camera is IP66/IP67 rates, which ensures camera ´s normal operation under tough weather conditions.



Feature

1. 860mm/1000mm visible camera, 4 mega pixels CCD, 1-40km detection range in the daytime.
2. 230mm uncooled thermal camera, 640*512 resolution, 1-25km detection range at day/night.
3. 35mk NETD produces crisp thermal image under all weather conditions.



4. Fog penetration (optional), optical filtering and DSP image processing.
5. PT with 50kg load duty and 360 degree rotation.
6. IP66 ingress protection ensures camera ´s proper functioning under tough weather conditions.

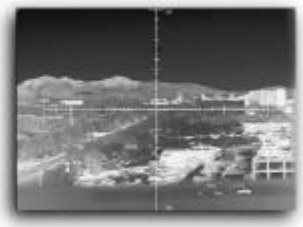
Application

Border/Costal defense, harbor, oilfield, river lane, airport, safe city

Auto Track

Intrusion Detection

High Resolution



Ranging Scale

Technical specification

Model	EMS206380
Thermal Camera System	
Detector	Uncooled VOX sensor
Wave length	8~14μm, LWIR
Pixel size	12μm
Resolution	640*512
NETD	35mk
Lens Control	Auto/Manual
Image Enhancement	SDE digital image enhancement technology
Pseudo-color polarity	18 kinds of pseudo-color images, hot black/hot white
Image Parameters	AGC automatic gain control, brightness, contrast
Digital Zoom	1X~8X continuous digital zoom
Range ruler	Support
Strong light protection	Support Anti-Sun damage
Focal length	22mm~230mm zoom lens
zoom	10X optical zoom, 8X digital zoom, auto focus
Daylight Camera System	
Focal Length	11~860mm. 2688*1520 resolution
Zoom	78X optical zoom auto focus
Sensor	Ultra-low illumination starlight CMOS
Low Illumination	Color: 0.005lux/Black and White: 0.0001lux
Image process	white balance, electronic shutter, frame accumulation, backlight compensation, glare suppression, 2D/3D digital noise reduction, electronic anti-shake, wide dynamic
Defog	Support
Motorized Cover For Thermal Lens	
Motorized Cover	Support
Laser range finder （Optional）	
Distance measurement	10km
Accuracy	±3 m
Video/Audio	
Thermal	support 1920×1080；1280×1024；1280×960；1024×768；1280×720；704×576；640×512；640×480；400×300；384×288；352×288；352×240
Daylight	Support 2688*1520; 2592×1520；2560×1440；1920×1080；1280×1024；1280×960；1024×768；1280×720；704×576；640×512；640×480；400×300；384×288；352×288；352×240
Video encoding	H.265/H.264/MJPEG， multi-stream support
Video rate	32Kbps～16Mbps
Audio encoding	G.711A/ G.711U/G726
OSD settings:	Support OSD display settings for channel name, time, gimbal orientation, field of view, focal length, and preset bit name settings
Intelligent Function	
Intelligent Analysis	support intrusion detection, boundary crossing detection, entering/leaving area detection, motion detection
Auto Track	support single scene tracking/support multi-scene tracking/support panoramic tracking
Intelligent fusion	support

Classification Recognition	Vehicle/Human/UAV/Ship/Animal
Enhancement	
Strong Light Protection	Support, anti sunburn
Temperature correction	Athermal design, image clarity is not effected by temperature
Scene mode	support multi-configuration scene, adapt to different environment applications
Auto focus tuning	support remote auto focus accuracy parameter adjustment to adapt to different scenarios
Day and night cruise	day and night group cruise in different preset groups
Housing	
Material	High strength aluminum alloy shell， waterproof seal， To avoid the growth of mold and moisture generated
Surface coating	PTA three-resistance coating, Seawater corrosion resistance
Special Design	Built-in thermostat, design of thermal equilibrium
Interface	Interface：Aviation waterproof plug
PTZ	
Load capacity	50kg
Rotation	Pan: N*360°, Tilt: +60°~-60°
Speed	Speed：Pan: 0.01～30°/S, Tilt: 0.01～15°/S
Preset	Preset: 3000, with Petrol/scan function, Azimuth real-time display, Zero correction function
Interface	RJ45 Interface
Video format	H.264, Dual video output
Others	
Protocol	TCP/IP、HTTP、DHCP、DNS、DDNS、RTP ect. Other protocol
	Support ONVIF2.0
	Pelco-P、Pelco-D，Baudrate 2400、4800、9600、19200 optional
Power supply	AC24V/DC24V±10%，50Hz，150W，Standard AC220V->AC24V power supply (Optional DC12V)
Environment	1. Operating temperature：-25℃~+60℃（-40℃ optional）；Storage temperature：-35℃~+65℃
	2. Humidity：<90%
	3. Anti-lighting：built-in auto Fuse-protected device, Power 4000V，Signal 2000V
	4. Ingress protection：IP67

About the Detection and Recognition distance, it is should follow as the Industry Standards