EOVX

All-Weather Long-Range Gyro Stabilized EO Camera

The EOVX is a multi-sensor optical platform camera is independently researched and developed by our company. It is specially designed for the key areas surveillance such as conference centers, office buildings, prisons, airports, military bases, nuclear, biological and chemical industries, border and coastal defence. Optical platform camera system, it can integrate multi-spectrum detection modules such as high-definition visible light camera, refrigerated/uncooled thermal image, near-infrared laser illumination, etc., and can be equipped with laser range finder, electronic compass, automatic tracking,intelligent analysis, etc. The module realizes the functions of all-weather and all-time full-dimensional discovery, positioning, tracking, identification and tracking of targets, and the operating distance can reach more than 15km.The optical platform camera system can be fixedly erected or used in vehicles. It is adopts military quality design, and the overall shell is made of super cast aluminum material, and the protection level reaches IP66, which effectively ensures the long-term stable operation of the equipment in the harsh field.

Key Features:

- Reinforced aluminum alloy housing
- Wide coverage
- Fast turning speed
- High control accuracy
- Excellent tracking performance
- High degree of intelligence
- Multiple redundant protection
- Strong environmental adaptability
- High Resolution Pan/Tilt with **2**-Axis Gyro Stabilization

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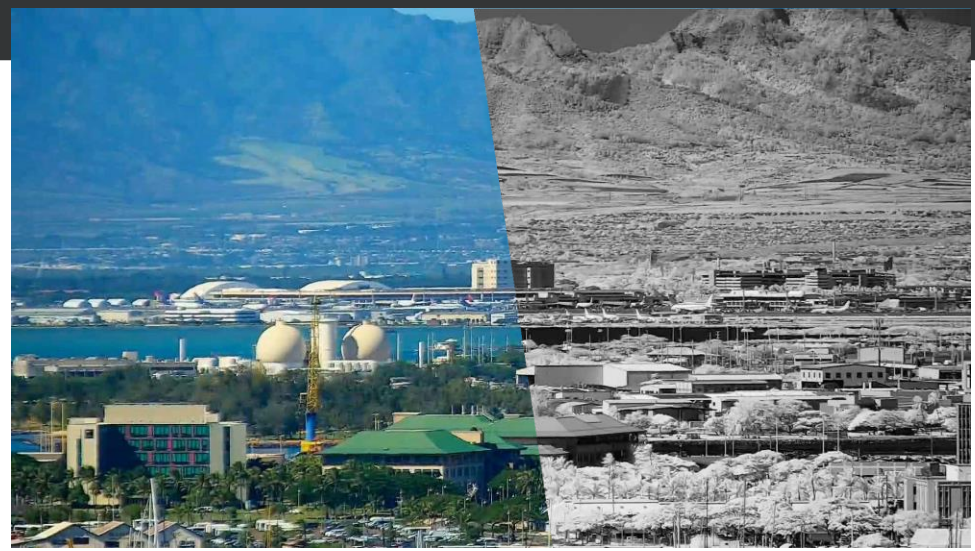

Standard Color Visible Image
(Optical Fog Filter Disabled)

The optical platform camera system can also cooperate with radar equipment, passive spectrum detection equipment, radio interference equipment, etc. to form an automatic UAV defense system to realize early detection, fast locking, stable tracking, quasi-recognition and strong countermeasures of UAVs. Effectively ensure low-altitude safety in key areas day and night, all-weather

Long-range imaging needs to see through large amounts of atmosphere which often contains particulates like smoke, haze/fog, and other atmospheric distortions. Our optical fog filter lenses incorporate a motorized filter that is used with the camera's monochrome mode and de-haze image processing to see through smoke, smog and haze; it is available on many of our visible camera modules.

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Thermal Image

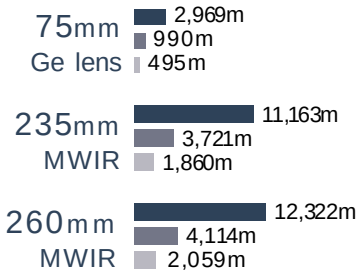
See in the Dark

When there is not enough natural light, infrared lighting enables detailed video to be captured; however, the range of most typical infrared LED illuminators is somewhat short. Long range requires the use of a laser. Our technology eliminates overexposure, washout, and hotspots for crisp photographs in total darkness by synchronizing the IR intensity and area illumination with the zoom lens.

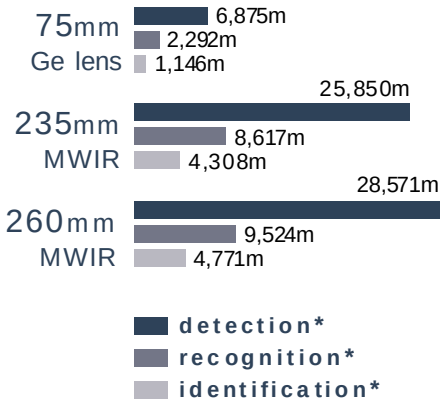
See Further with Thermal

More than any other night vision technology, you can see farther with an optional thermal imager. Because people, animals, and cars are hot in comparison to most backgrounds, they are considerably simpler to notice in a scene when using thermal imaging, which uses heat to see objects. In addition to being unaffected by strong light, thermal imaging can see through airborne impurities including dust, smoke, and light fog. This makes it the perfect technology for a wide range of applications, including as large area situational assessment, firefighting, marine and land navigation, surveillance and security, and much more.

Human DRI:



Vehicle DRI:



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Model	EOVX
Detection	Vessel: 25km Human:15km
Identification	Vehicle:4km Human:3km
Thermal sensor	Uncooled Vox sensor, **640*512** resolution (1280*1024 for option)
Thermal lens	**22.5-105 mm**
	3X continuous zoom, 16X digital zoom
Image process	1.Image enhancement: SDE 2. Color: White hot/Black hot 16 colors 3.Brightness and contrast : 4.AGC, adjustable 5. digital / gyro image stabilization 6.Digital zoom: 2X/4X/8X 7. Cross: Display 8. Correction: Shutter/Background
Visible camera sensor	1/1.8" CMOS
	0.0002lux super high sensitive color to B/W CCD
	2 megapixels,1920X1080
	Automatic ICR switch
	H.264/MPEG4/MIPEG
	32Kbps~16Mbps , 60Hz30 FPS
Visible camera lens	8-500mm
	63X zoom, auto focus
Intelligent Analysis	Support hot spot alarm Support cruise detection Support regional intrusion detection Support cross-border intrusion detection Support 3D frame selection zoom/position Support auto tracking function
PTZ structure	Dome Shape Structure, Three Window design, anti strong wind, anti-corrosion,military grade
Video output	IP output directly, RJ45, analog video and SDI for option

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Rotation	Pan: 0~360°, Tilt: +90° ~ -90°
Speed	1. Pan speed: 0.01° ~ 80°/s ; Tilt speed: 0.01°~80°/s (max 200°/s) 2. Acceleration: 80°/s2 Pan; 80°/s2 Tilt 3. Speed adaptive: with intelligent sensing shifting function, support lens focal length speed adaptive function 4. Speed mode: The highest speed mode can be set 5.Drive mode: direct drive with high torque rare earth permanent magnet synchronous motor, high speed start and stop, smooth and smooth tracking with rad
PT position	1.Positioning accuracy: 0.01°- 0.02° with high precision encoder, high-frequency fine-tuning pulse precision motor drive, digital angle measurement sensor servo 2. Positioning time: less than 4s
Patrol and Scan	1. Preset: no less than 255 2. Path scanning: support preset point cruise, day and night cruise, line sweep, apple skin scan, scan speed can be set 3. Watch function: support watch preset point \ line sweep \ cruise \ apple skin
Data Feedback	1. Lens servo: support lens field of view, magnification, ZOOM/FOCUS value query, return, positioning function 2. Pan Tilt angle: support horizontal, vertical angle real-time / query return, positioning function
Track Mode	1. Support front-end module automatic tracking with high precision encoder 2. Support automatic tracking of back-end software
Track Module	1. Video interface: support visible light/ thermal image video switching tracking

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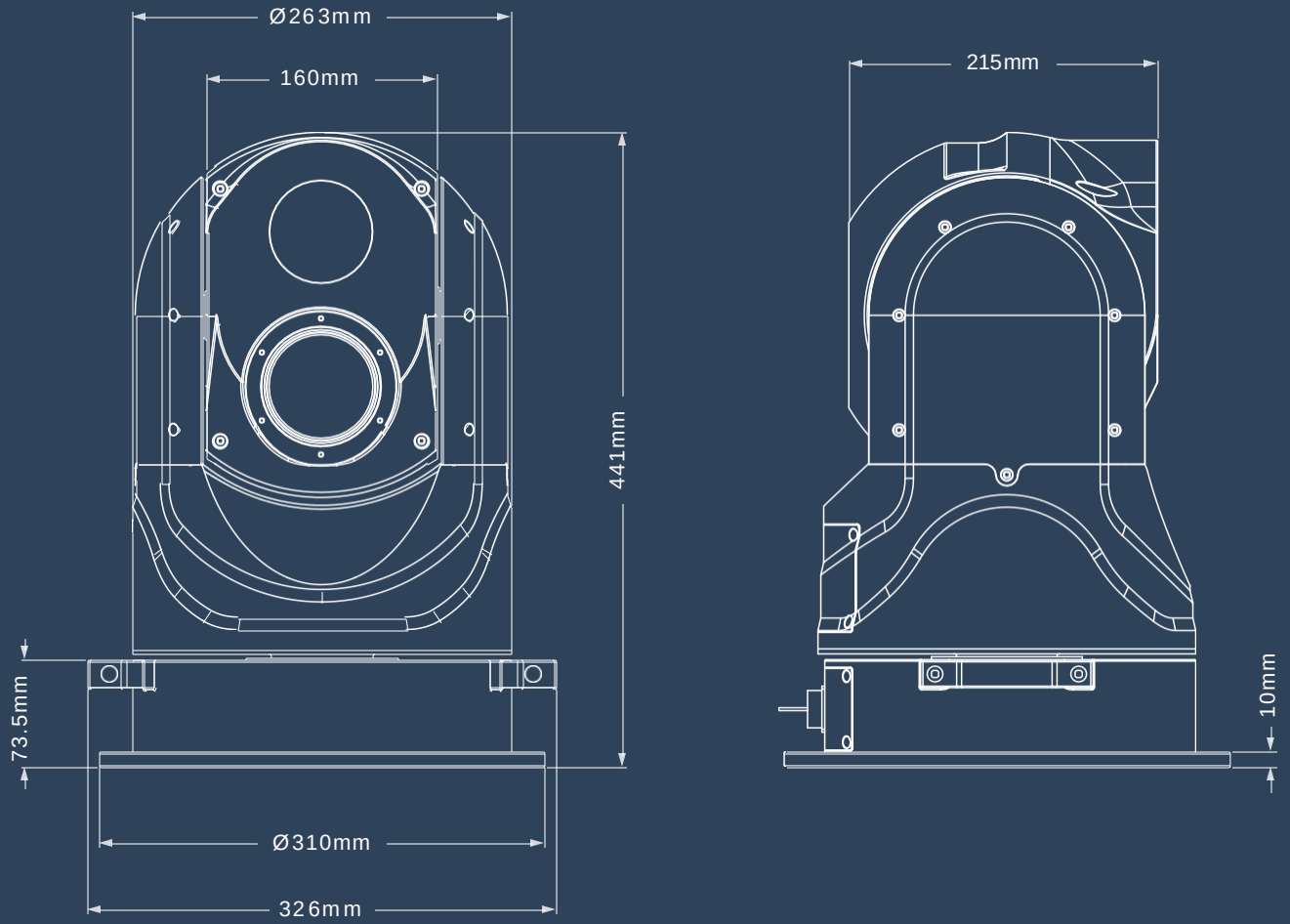
	2. Video format: composite video, PAL, NTSC 3. Multi-target detection: support multi-target detection 4.Tracking algorithm: Integrate multiple tracking algorithms, which can be switched manually/automatically according to different scenarios, and support recapture and lock when the target is temporarily lost 5. Target size: adaptive gate, the size of the tracking frame changes automatically according to the target size
Enhance	1. Heating defrost: oriented industrial window defroster, automatic heating temperature control 2. Power failure memory: support, can restore power off state 3. Motor protection: PT blocking protection, high reliability 4. Fault detection: support power-on self-test, status query and fault code feedback 5. Upgrade maintenance: remote restart, remote upgrade function, convenient system maintenance
Protocol	1 TCP / IP, HTTP, DHCP, DNS, DDNS, RTP and other network protocols 2. Support ONVIF2.0 3.Pelco-P, Pelco-D and other industry-standard protocol, baud rate 2400,4800,9600,19200 alternative, proprietary protocols can be customized
Power supply	AC220V with wide power supply adaptor, common consumption 150W Maximum power consumption 600W
Environmental Indicators	1. Working temperature: -40 ℃ ~ + 60 ℃ 2. Storage temperature: -45 ℃ ~ + 70 ℃ 3. Humidity: <90% 4. Protection: IP66
Weight and Volume	90kg (with load) , φ565*H880mm



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