



## **ST-U155-750**

**Uncooled Multisensor  
Camera Up To 13.4 Km**

# Product description

Uncooled Multisensor Camera combines visible camera, and thermal camera that suit long distance monitoring in total darkness and foggy/rainy environment. It has a U shape housing and with military quality, the camera is widely applied to coastal, seaport, airport, Forest fire prevention.

In the day time, HD lens and 2 megapixel color to B/W CMOS works. At night, the 640\*512 uncooled thermal camera.

Internal industrial-grade embedded electronic control system support the Uncooled Multisensor Camera operation: zoom, focus, video switch, pan tilt. The integral aluminum alloy housing IP66 makes sure outdoor long running.

# General Functions

- Aluminum alloy housing, anti-corrosion paint, anti-seawater corrosion, spherical housing, resisting 33m/s wind.
- Precision positioning.
- Data feedback: real-time feedback direction, angle, focal length and focusing data, track and locate the target. (cooperate with application software) High load duty.
- Max rotation speed 45°/s, min rotation speed 0.01°/s.
- Pan rotation angle range 0-360°, tilt rotation angle range  $\pm 45^\circ$ .
- Uncooled Multisensor Camera combines thermal camera, visible camera, NIR laser illuminator, pan tilt, housing and decoder.
- One integral aluminum alloy housing, waterproof, IP66, anti-dust.

# Application

Border defense, lake and river monitoring, airport security, city safety, forest fire prevention.

## DRI Ranges

	Detection	Recognition	Identification
Vehicle	13.4 Km	3.6 Km	1.7 Km
Human	4.8 Km	1.8 Km	0.9 Km

## Technical Specification

Thermal sensor	VOx uncooled detector, 640*512 resolution 7.5um-14um spectral response, 50mk NETD
Thermal lens	31-155 mm,5X Continuous Zoom Electric zoom and auto focus 12.4°
Fov	12.4°x9.3°~2.5°x1.8°
Visible lens	20-750mm motorized zoom DC8-12V zoom data feedback
Visible 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 ABF auto adjust function

## Technical Specification

PTZ	Load: 50kg U Shape housing, Multi-dimensional free-form surface shape resisting 33m/s wind. Rotation speed Pan: 0.01°~45°/S; Tilt: 0.01°~45°/S; PT Pan: 0~360°; Tilt: -45°~+45° Preset 200
Laser range finder	Laser Wavelength 1570 nm Ranging Capacity 50-5,000 m Ranging Accuracy ± 3 m Working Frequency Pulse repetition 0.2 Hz
Laser illuminator	Power: 15 W Wavelength: 810nm military grade infrared laser Illumination angle: 0.5 ° ~ 20 ° , DSS digital step lighting angle control technology Homogenization: GHT-II high-definition lens group ultra homogenization patented technology, brightness balance of all focal lengths is > 92%
Image process	2X digital zoom; Image processing; AGC; 10 pseudo color; SDE image enhancement;
Fog filter	AFR color fog filter technology
Housing	Material: High strength aluminum alloy shell, waterproof seal To avoid the growth of mold and moisture generated Structure: Integrated double-window design Surface coating: PTA three-resistance coating, Seawater corrosion resistance Built-in thermostat, design of thermal equilibrium Interface: Aviation waterproof plug
Interface	1.1 channel 10M / 100M adaptive Ethernet port 1 AC24V / DC24V, 2. Military-grade waterproof aviation plug

## Technical Specification

Video format	H.264, Dual video output
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	AC220V±20% Turntable rotation power can be controlled in 120W, maximum power consumption 150W, stationary machine power 45W, heating 150W

## Environment

Working temperature	-40°C~+ 65 °c
Storage temperature	-40 °c~ + 65 °c
Humidity	<90%
Protection	IP66
Weight	115KG

ALL PICTURES SHOWN ARE FOR ILLUSTRATION PURPOSE ONLY. ACTUAL PRODUCT MAY VARY DUE TO PRODUCT ENHANCEMENT



[sales@sensortec-eu.com](mailto:sales@sensortec-eu.com)



[www.sensortec-eu.com](http://www.sensortec-eu.com)



Sydney House, 62 Lancaster Way, Ely,  
Cambridgeshire, CB6 3NW, UK.