



**ST-U75-320**

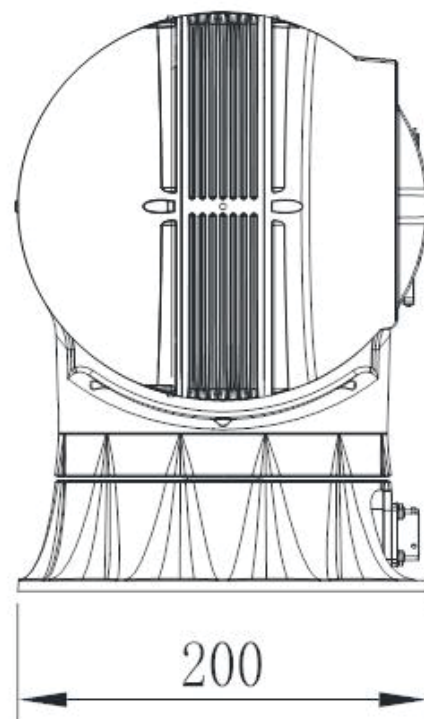
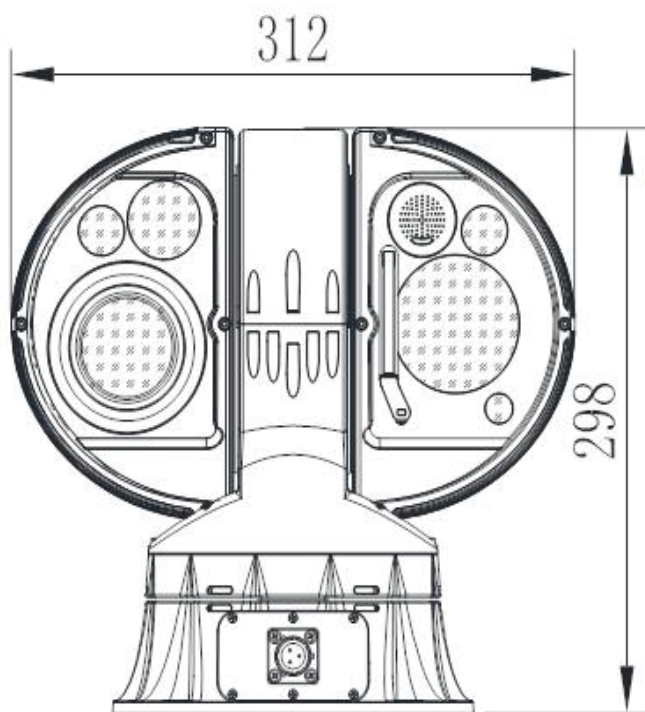
**Intelligent Thermal Camera**

## Product's Overview

This dual sensor camera is equipped Thermal Detector together with HD low-illumination visual sensor, it can be used for detailed observation of the targets discovered by the thermal imaging at night, to form a dual-sensor camera with infrared thermal image detection, visible light camera, that suitable for long-range target monitoring under all-weather conditions.

## Features

- 640x512 Thermal Resolution
- 1/2.8' CMOS Visible Sensor
- Powerful optical zoom lens
- Manual/Auto Focus
- IP66 Rated Enclosure



# Technical Specifications

## Thermal Camera

Model	ST-U75-320
Sensor	UFPA, 7-14um spectral response
Resolution	640*512
Spectral Response	7 - 14μm
NETD	40mK (@25+45°C) F4.0
Pixel Size	17um
FOV	24° × 18° ~ 8° × 6°
Spatial resolution	0.68 ~ 0.22 mrad
Image Processing	Image enhancement: SDE; Color: White hot/Black hot; Digital zoom: 2X, 4X Correction: Integrated internal NUC, external optical NUC Brightness and contrast: AGC, adjustable
Frame Rate	30 FPS
Automatic defrosting of the outer lens	Yes
Frequency	30 Hz

## Thermal Lens

Lens Type	Motorized
Focus Control	Auto / Manual
Focal Length	25 ~ 75mm - 3X optic zoom
Detection (2.3m * 2.3m)	6,500 m
Recognition(2.3m * 2.3m)	2,500 m
Identification (2.3m * 2.3m)	1,200 m
Detection (1.8m * 0.6m)	1,800 m
Recognition (1.8m * 0.6m)	1,000 m
Identification (1.8m * 0.6m)	4,70 m

## Visible Camera

Sensor	1/2.8' CMOS	auto color to B/W CMOS
Resolution	1920*1080 2.1 mega pixels	
Lens	8-320 mm, 40X zoom lens	
Focus Control	Auto / Manual	
Preset	255	
Day/Night Mode	Auto, colour, monochrome	
Laser Illuminator	10W laser consumption	

## Pan/Tilt

Load	20 kg	
Range	Pan 0 ~ 360 °, Tilt -45° ~ + 90 °	
Speed	Pan 0.001°/ S ~ 80°/s Tilt 0.001 °/ S ~ 80°/ S	
Precision	0.02°	
Preset	255	
Auto Tracking	Support	
Gyro Stabilization	Support	
Material	Aluminium	
Communication protocol	IP	

## Housing

Material	Integral aluminum alloy	
Structure	Integral double window	
Connector	Waterproof aviation connector	
Ingress Protection	IP66	

## Interface

Network	1 way RJ45, 10/100 Base-T adaptive	
Communication protocol	Ethernet and RS-422	
Video	Analog composite (PAL o NTSC) Digital (IP video stream H264, ONVIF)	
Protocol	support TCP/IP, UDP, IPv4/v6; support HTTP, RTP, RTSP, NFS, DHCP, NTP, ONVIF 2.0	
Physical interface	Alloy waterproof aviation plug	

## Environment

Working temperature	- 35°C ~ + 60°C
Storage temperature	-40°C ~ + 70°C
Humidity:	Less than 95%
Anti salt fog	Support
Anti-corrosion	Support
Lightning protection	Support
Ingress Protection	IP66
Power supply:	110-220V±20V, 50HZ±5HZ
Power Consumption	Max 120W
Weight	≤ 9 kg

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.