# Bi-spectral Infrared Body Temperature Fast Screening Instrument

## USS-TIC500



## Introduction

The dual-view infrared USS-TIC-500 series dual-spectrum infrared body temperature rapid screening instrument is mainly developed based on the principle of infrared thermal radiation. It uses a non-refrigerated core and low signal-noise image processing technology. It is a non-contact, real-time, continuous and accurate Temperature measuring equipment. At the same time, a dedicated software system can be used to visually display the temperature information of the temperature screening objects. It can be used for entry-exit health quarantine at customs, airports, stations, terminals, land ports, and epidemic prevention in key places such as schools, hospitals, office buildings Control scenes are widely used.

## Key Features

**Thermal imaging function:**

- Resolution 384 × 288, high sensitivity detector

- Highest temperature cross cursor positioning

- Supports point, line, rectangle, and irregular area temperature screening modes

- Support human body temperature abnormal alarm function

- Support automatic capture of moving face targets

- Support wearing a mask to identify the face area to avoid false alarms from non-face high temperature objects
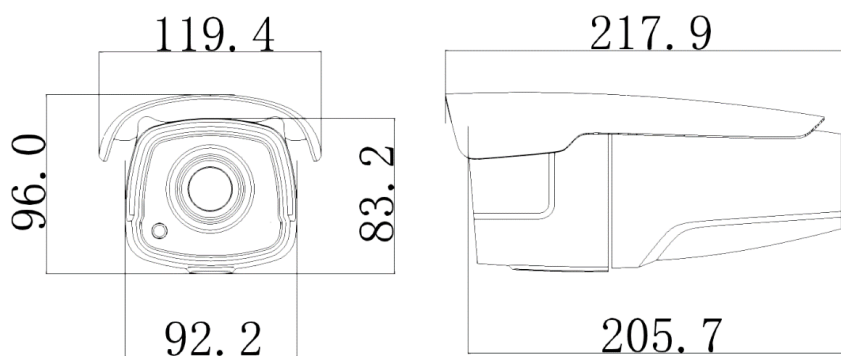
**Visible light phase function:**

- 500W high-definition visible light detector

- Supports automatic exposure control and automatic white balance

- Supports face temperature screening mode, intelligently analyzes face targets and measures body temperature, supports multiple alarm linkages

- Dual light temperature screening linkage, can draw regular and superimposed temperature screening information on visible light image

# Specifications

| Model | USS-TIC500 |
|---|---|
| **Thermal Camera** | |
| **Sensor type** | Uncooled detector |
| **Sensor pixels** | 384 × 288 |
| **Response band** | 7.5 ~ 14μm |
| **Pixel pitch** | 17μm |
| **Optical Transmission Calibration** | Manual / Automatic |
| **NETD (Noise Equivalent Temperature Difference)** | <50mk (@ 25 ° C, F # = 1.0) |
| **Lens focal length** | 6.5mm |
| **Field of View** | 50.8 ° × 37.1 ° |
| **Image frame rate** | 16fps |
| **Palette** | Hot white, black hot, iron red, etc. |
| **Image and Video** | |
| **Thermal Image / Video / Visible Light Picture** | .jpg (including full temperature data) / Full Temperature Infrared Video / .jpg Visible Light Picture |
| **Visible light camera parameters** | |
| **Focal length** | 2.7mm |
| **Sensor pixels** | 5 million pixels |

| Temperature screening function | |
|---|---|
| Temperature screening range | 28 ° C-~42 ° C |
| Temperature screening deviation | ± 0.3 ° C (with black body) |
| Temperature screening area setting | Support global highest temperature, lowest temperature, average temperature tracking, point, line, rectangle, irregular area temperature screening mode |
| Over temperature alarm function | Support human body temperature abnormal alarm function, area alarm text, temperature screening box color can be set, alarm voice prompt |
| Intelligent features | Support automatic capture of moving face targets |
| Face area recognition | Support wearing a mask to identify the face area to avoid false alarms from non-face high temperature objects |
| General specifications | |
| Power input | DC12V |
| Power | 5W (MAX) |
| Size (mm) | 232mmx120mm × 96mm |
| Weight | ≤1Kg |
| Protection class | IP65 |
| Working temperature and humidity | +10 ° C ～ + 30 ° C, <90% RH |
| Other | |
| Item List | 1*Bullet thermal camera, 1*Black body , 2*Tripod, Client Software |
| PC requirement | Windows 10 64 bit, I5, 8GB RAM, NVIDIA Discrete graphics 2G |

# Dimensions

119.4

96.0

83.2

92.2

217.9

205.7

Unit: mm