

# ***TI160-P1***

Infrared Body Surface Temperature  
Rapid Screening Camera  
(Thermal Imaging Camera)



ULIRVISION



## Company Introduction

Zhejiang ULIRVISION Technology Co., Ltd.(ULIRVISION) is dedicated to researching, designing, manufacturing, integrating the IR and UV systems. Since the establishment in 2005, ULIRVISION has served its clients worldwide with cutting-edge technology in handheld thermal imaging cameras, thermal imaging cores, thermal night vision systems, thermal surveillance cameras and corona cameras. Innovative solutions are brought into power industry, electrical industry, automation application, firefighting, surveillance monitoring, and night vision areas through ULIRVISION.

ULIRVISION maintains its advantages in the industry with strong R&D team and advanced facilities. It invests about 8% of the total revenue into R&D annually, and it is committed to striving for meeting the new challenges. ULIRVISION is recognized by ISO9001:2008 certificate, SGS CE, RoHs, MIL standard certificate, and it has been granted more than 100 patents& 30 computer software copyrights.

It has seen dramatic growth in both domestic and international markets each year with average increase rate around 130% annually, which makes ULIRVISION pioneer in measurement and security solution providers. We have devoted and enthusiastic sales& technical staff to serve clients all over the world with their expertise around the clock.

## Company Culture

- ULIRVISION Positioning:**  
 Infrared-centric IntelliSense products and big data service providers
- ULIRVISION Vision:**  
 Make the world more secure
- ULIRVISION Mission:**  
 Help visionaries gain insight into the future
- ULIRVISION Core Values:**  
 Create value for customers, provide a platform for those who struggle, and contribute to social progress

## Honorary Certificate



## Product Presentation

TI160-P1 is a special infrared human body temperature screening device. This thermal imaging camera has extraordinary functions such as high accurate temperature measurement, real-time imaging, high-temperature auto tracking, quickly lock the target etc. Currently, it is widely used in railway stations, bus stations, subway stations, airports, hospitals, schools, government buildings, enterprises and institutions, shopping malls, food markets, parks and other public places for investigation of abnormal body temperature. With palm treasure design, compact and lightweight body, visible light function, TI160-P1 can effectively improve the efficiency of detection.



## Features



384×288  
Uncooled detector



Measurement  
accuracy  $\leq 0.5\text{ }^{\circ}\text{C}$



Visible and infrared  
image fusion and  
overlay



Sound and light  
alarm, 40 seconds  
voice recording



Motorized lens,  
auto focus



Palm design,  
weighing only  
400g



3.2" Rotatable display for viewing at different angles



Multiple temperature measurement modes:  
high and low temperature auto tracking,  
line temperature measurement, isothermal analysis

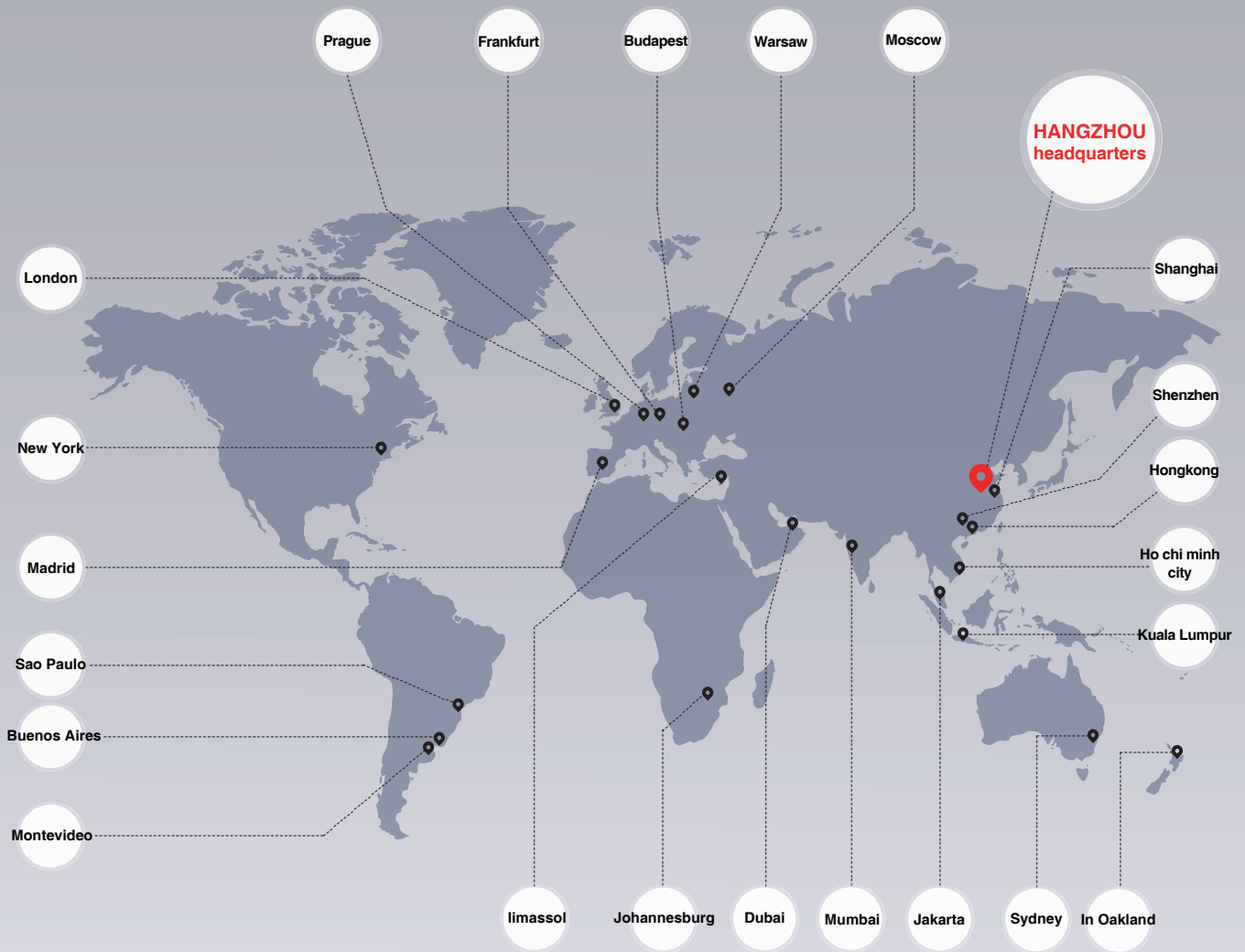
## Applications



# Technical Specifications

Item	T1160-P1
<b>Detector Data</b>	
Type	Uncooled FPA
IR resolution	384 × 288
Pixel pitch	17 μm
Spectral range	7.5 ~ 14 μm
NETD/Sensitivity	50mK
<b>Lens</b>	
FOV/Minimum imaging distance	24 ° x18 ° /30cm
IFOV	1.2mrad
Focus	Auto/Motor
Lens(optional)	45 ° × 34 ° /15cm, 12 ° × 9 ° /1m
<b>Image Performance</b>	
Display	High definition 3.2 " color digital LCD display, rotatable,800 × 480
Visual camera	3 megapixel CMOS, auto focus, 1 led fill light
Frequency	50Hz/60Hz
Zoom	1 × ~ 8 × continuous
Color palettes	12 palettes(including iron,rainbow,white hot and black hot etc.)
Contrast /brightness	Auto/Manual
<b>Measurement</b>	
Temperature range	+30°C ~ +45°C
Temperature accuracy	± 0.5°C
Measurement mode	Real-time 4 movable points, 3 movable areas (highest temperature, lowest temperature capture, average temperature measurement), movable line temperature measurement, isothermal analysis, temperature difference measurement, temperature alarm (sound, color)
Measurement correction	Auto/Manual
Emissivity correction	Adjustable emissivity from 0.01 to 1.0, or correct emissivity through a predefined material emissivity meter
Background temperature correction	Auto (based on the entered background temperature)
Atmospheric transmissivity correction	Auto (according to the entered distance, relative humidity, ambient temperature)
Function settings	Date / time, temperature unit °C/°F/K, language
<b>Image Storage</b>	
Built-in memory	Yes, can store> 500 images
Storage media	8G SD card, up to > 8000 images
Storage method	Auto / manual single frame image
Single frame infrared image format	JPEG format with 14-bit measurement data image
One frame visible image format	JPEG format, or stored with a single frame image (PIP)
Voice annotation	40s voice record,stored with per image via built-in microphone
<b>Laser Indicator</b>	
Laser classification	Class 2
Laser power	1mW
Laser wavelength	635nm red
<b>Interfaces</b>	
Power interface	Yes
SD card slot	Yes
Video output	CVBS
Audio output	Yes
USB interface	USB 2.0 radiometric images,measurement data and voice are transferred to PC
Tripod	1/4" --20
<b>Power System</b>	
Battery type	Lithium battery, rechargeable
Operating time	3h continuous working (room temperature)
External power	DC:5V ± 5%
Charging system	Smart charger or local charger
Power saving	Yes
<b>Environment Parameters</b>	
Operation temperature range	+16°C ~ +32°C
Storage temperature range	-40°C ~ +70°C
Humidity	≤95% ( Non- condense )
Shock	25G ( IEC60068-2-29 )
Vibration	2G ( IEC60068-2-6 )
Encapsulation	IP54 (IEC60529)
<b>Physical Data</b>	
Size	128mm × 62mm × 154mm
Weight	≤0.4Kg(with battery and standard lens)
<b>Packing</b>	
Standard	Thermal Imaging Camera(with standard lens), 2 lithium batteries, battery charger, adapter, USB cable, SD card, card reader, software CD, warranty card, certificate, calibration book
Optional accessories	Laptop, SLR
<b>Quality assurance</b>	
ISO9001	Yes
CE	Yes
Third-party detection	Type Approval Certificate of Measuring Instruments issued by Zhejiang Quality and Technical Supervision Bureau

## Customers Distribution



## National distribution of temperature measuring products

### ASIA

Korea      Philippines  
 Thailand      Egypt  
 Singapore      Iran  
 India      Israel  
 Taiwan      Lebanon  
                  UAE

### EUROPE

Czech Republic  
 Germany  
 Greece  
 Italy  
 Spain

### AFRICA

South Africa

### NORTH AMERICA

The United States

### SOUTH AMERICA

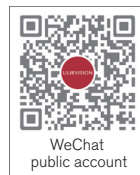
Argentina  
 Chile

### OCEANIA

Australian

# ULIRVISION

Make the world more secure



**Zhejiang ULIRVISION Technology Co.,LTD.**

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