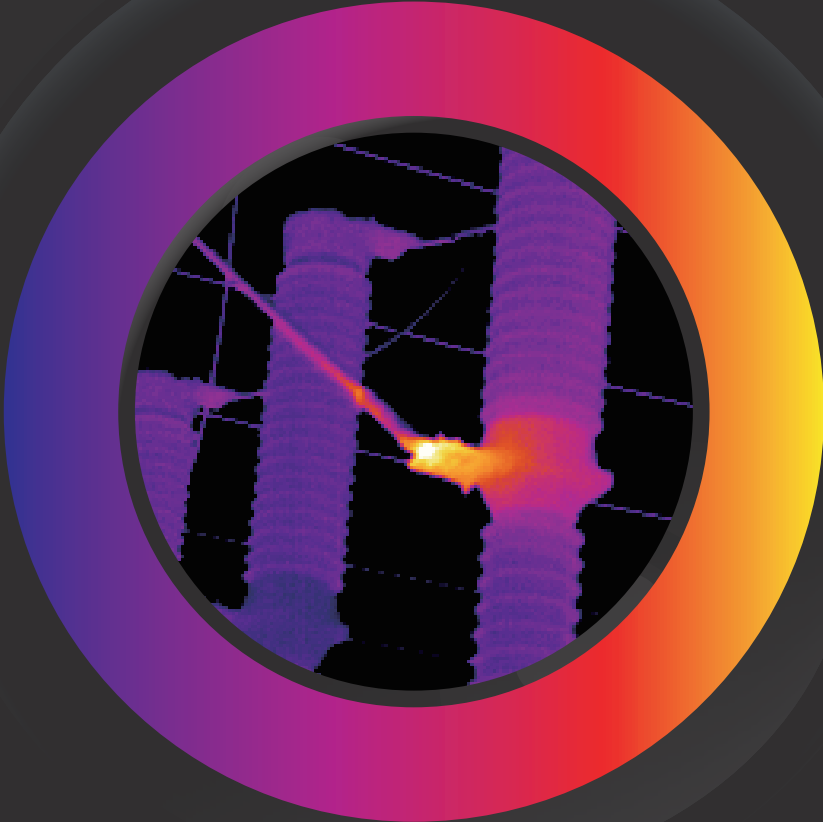


# THERMAL IMAGING SYSTEMS

To See The Unseen | Excellent Images

2021V1.1





## ABOUT ULIRVISION



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.

# ULIRVISION Brand



● **UltravioLet**



● **InfraRed**



● **Foresight and Foreknow**

# ULIRVISION Culture

## ● **ULIRVISION Positioning**

Infrared-centric IntelliSense products and big data service providers

## ● **ULIRVISION Vision**

To be a top-ranking solution provider for IR & UV system with leading technology worldwide, to make the world more secure.

## ● **ULIRVISION Mission**

Help visionaries gain insight into the future.

## ● **ULIRVISION Values**

Create value for customers;  
Provide a platform for those who struggle;  
Contribute to social progress.

# ULIRVISION Qualification Honor



# ULIRVISION Advantages

Excellent R&D Team

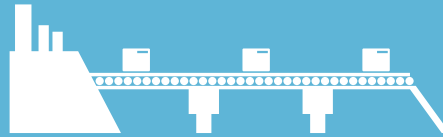
30+  
Copyright



100+  
Patent



Stand-alone Manufacture  
from DQA to MQA



Manufacture  
Assembly  
Testing

Complete Solution Provider



Internationalized  
Quality Control System



A Global Brand  
with a Local Presence



A Reliable Partner



THALES

HIKVISION



360° Technical Support &  
Thorough Warranty Service

24 hrs / 365 days



Completed Training System



# CONTENTS

---

## • THERMAL IMAGING CAMERAS

T2	02
T10	04
T1175   TI395	06
T5   T6	08
TI400S   TI600S	10
T100	12

## • GAS LEAKS APPLICATION

TI320+	14
TI330+	16

## • ONLINE THERMAL IMAGING CORE

TI35S   TI65S	18
---------------	----

## • ONLINE MONITORING THERMAL IMAGING SYSTEM

TI300PTZ   TI600PTZ	20
TI400PTZ	22

## • UVSEE CORONA CAMERAS

TD90	24
TD100	26

# T2

## Pocket Thermal Camera



T2 is a high cost-effective hand-held thermal camera for beginners without any professional training. It is convenient to carry and can be put into the pocket, also it is quick to start and supports various measurement methods. It can be used in temperature measurement area such as electric industry, mechanical inspection, etc.

### Features

3.5" screen, auto rotation

Small volume

Quick start, measuring at any time

Various measurement methods

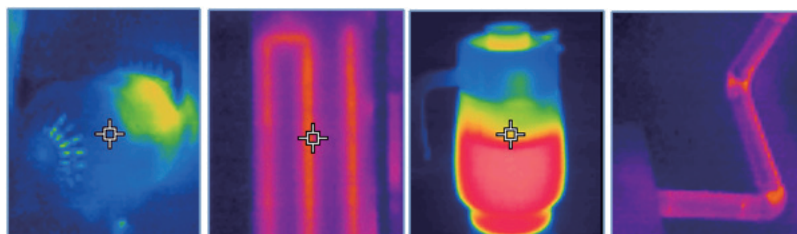
3 button keyboard, beginner friendly

50° to view, easy to discover problems

USB interface to charge and transmit data

### Application Case

- Architectural problems
- Electronic industry, mechanical inspection
- Researching system
- Automation applications



### Standard Package

standard package	
Portable IR Thermal imager×1	Warranty Card×1
DC5V/2000MAPower Adapter×1	USB Type Ccable ×1
Quality Certificatex1	



## Technical Specifications

Item	T2
<b>Detector Data</b>	
Type	Uncooled FPA
IR resolution	80×60
Pixel pitch	17μm
Spectral range	7.5~14μm
NETD/Sensitivity	<70mK
<b>Lens Data</b>	
FOV	50°× 37.5°
<b>Image Performance</b>	
Display	3.5" 480×320
Frequency	9Hz
Focus mode	Fixed
Color palettes	Iron、rainbow and white hot
<b>Measurement</b>	
Temperature range	-20 C ~ +150 C
Measurement accuracy	±2 C / ±2%
Emissivity correction	Adjustable from 0 to 0.95, or selected from list of materials
D:S	15:1
Measurement modes	Spot(center) mode, capture max./min./avg.temperature automatically
<b>Image Storage</b>	
Storage capacity	800
Storage format	JPG
<b>Interfaces</b>	
Power interface	Yes
Data transmission	USB3.0 Type-C
<b>Power System</b>	
Battery type	Rechargeable Li-ion battery
Operating time	>4h
Charging type	USB
External power	DC: 5V
<b>Environment Parameters</b>	
Operation temperature range	-0 C ~ +45 C
Storage temperature range	-20 C ~ +55 C
Encapsulation	IP54
<b>Physical Data</b>	
Size	125mm×72mm×16mm
Weight	173g
<b>Others</b>	
Sensor	Direction sensor
Standard packing	Pocket thermal camera, power adapter, USB Type-C cable, user manual, warranty card, certification

# T10

## Thermal Imaging Camera



**T10** is a portable thermal imaging camera. Accurate temperature measurement, real-time imaging, high-temp auto tracking, quickly lock the target. With durable quality, compact and lightweight body, integrated with multiple sensing functions of infrared, visible light, fill light, laser indicator, T10 can effectively improve the efficiency of detection.

### Features

---

160×120 Uncooled detector

---

Visible and infrared image fusion and overlay

---

Multiple measure modes: Center spot, highest temp, lowest temp

---

Multiple sensors: infrared, visible light, fill light, laser indicator

---

8hours battery life

---

Weighing only 320g

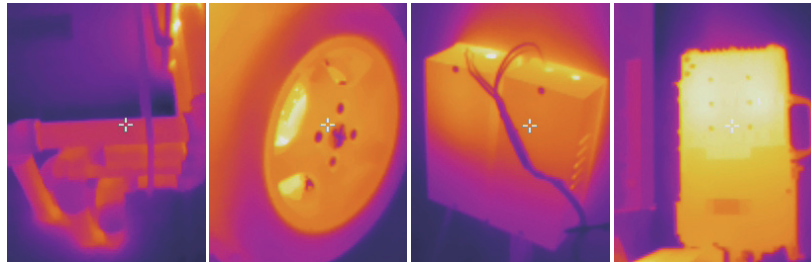
---

2 meters drop protection

---

### Application Case

- Building diagnosis
- Electrical/mechanical inspection
- Research and development
- Automation application
- Preventive and predictive maintenance



### Standard Package

standard package	
Portable IR Thermal imager×1	Warranty Card×1
DC5V/2000MAPower Adapter×1	USB Type Ccable ×1



## Technical Specifications

Item	T10
<b>Detector Data</b>	
Type	Uncooled FPA
IR resolution	160×120
Pixel pitch	17μm
Spectral range	7.5~14μm
NETD/Sensitivity	50mK
<b>Lens Data</b>	
FOV	42°×32°
Minimum imaging distance	30cm
IFOV	4.42mrad
Focus	No need to focus
<b>Image Performance</b>	
Display	2.4" LCD display, 320×240
Visible light camera	3 megapixel CMOS, auto focus, 1 led fill light
Display mode	Infrared, visible light, fusion
Palette	iron red, rainbow, black hot and white hot
<b>Measure</b>	
Temperature range	-20 C ~ +350 C
Measurement accuracy	±2 C / ±2% (reading range), take the bigger value
Measurement mode	Spot measure (Center spot, highest temp, lowest temp)
Emissivity correction	Adjustable emissivity from 0.01 to 1.0, or correct emissivity through a predefined material emissivity meter
Image format	JPEG format with 14-bit measurement data image
<b>System functions</b>	
USB interface	USB2.0, Image, measurement data transmission
WIFI	Yes, equipped with dedicated APP
Function settings	Date / time, temp unit C / °F / K, language
Storage	8G memory, support expansion
Laser indicator	Class 2, 1mW, 635nm red
Tripod	1/4" -20
Battery type	Lithium battery, rechargeable
Operating time	8h continuous working (room temperature)
Charging type	Micro USB direct charge
Charging time	4h (room temperature)
<b>Environment Parameters</b>	
Operating temperature range	-20 C ~ +55 C
Storage temperature range	-40 C ~ +70 C
Humidity	≤95% (non-condensing)
Drop protection	2m
Encapsulation	IP54 (IEC60529)
<b>Physical data</b>	
Size	190mm×72mm×60mm
Weight	≤320g (with battery)
Standard	Thermal Imaging Camera, adapter, USB cable, warranty card, certificate, calibration book

# TI175|TI395

## Thermal Imaging Cameras for Electricity & Industry Applications



**TI175 | TI395** are affordable, easy-to-operate and high-performance thermal imaging cameras that offer accurate temperature measurements at safe distances. They have a wide range of temperature measurements to satisfy a variety of thermograph applications. They are widely used in electricity and industry applications.

### Features

Excellent thermal image and high accuracy temperature measurement

3.2", 270°rotatable and foldable LCD

Multi-mode for temp. measurement, max./min./avg temp, auto tracking, isotherms analysis

Tiny size, light weight 400g

Multi-lens for option

Fusion and overlay of the thermal image & visible image

### Application Case

- Building diagnostics
- Electrical or mechanical inspection
- Research & Development
- Automation applications
- Preventative & predictive maintenance



### Standard Package

standard package	
Infrared Camera × 1	Converter cable × 1
Li-Ion Battery × 2	User Manual × 1
Charger × 1	Warranty Card × 1
SD Card × 1	IRSee Software CD × 1
SD Card Reader × 1	Adapter × 1
USB Cable × 1	Transport Case × 1
Video Cable × 1	



## Technical Specifications

Item	TI175	TI395
<b>Detector Data</b>		
Type	Uncooled FPA	
IR resolution	160×120	384×288
Pixel pitch	17μm	
Spectral range	7.5~14μm	
NETD/Sensitivity	70mK	
<b>Lens</b>		
FOV/Minimum imaging distance	24°×18°/20cm	24°×18°/50cm
IFOV	2.62mrad	1.13mrad
Focus	Auto/Motor	
Lens(optional)	45°×34°/50cm、12°×9°/1m、6°×4.5°/4m	
<b>Image Performance</b>		
Display	3.2"、270°tiltable LCD , 800x480 pixels	
Visual camera	3.0 mega pixel	
Frequency	50Hz/60Hz	
Zoom	1x~4x continuous	1x~8x continuous
Color palettes	12 palettes(including iron,rainbow,white hot and black hot etc.)	
Contrast /brightness	Auto/Manual	
<b>Measurement</b>		
Temperature range	-20 C ~ +250 C (Standard)、 200 C ~ +600 C (Optional)	
Temperature accuracy	±2 C / ±2% (reading)	
Spotmeter	4 adjustable spots	
Line profile	Vertical/Horizontal	
Area	3 adjustable boxes with max./min./avg temperature value	
Isotherms analysis	Capture high/low temperature/interval	
Alarm	Voice, color	
Measurement correction	Auto/Manual	
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials	
Background temperature correction	Auto	
Atmospheric transmissivity correction	Auto	
Setting function	Date/time; Temperature unit C / F /K; Language	
Languages	10 languages(English,French,Italian,German,Spanish,Portuguese,Russian,Korean,Japanese,Simplified Chinese & Traditional Chinese)	
<b>Image Storage</b>		
Storage media	Built-in flash card, >700 images	Built-in flash card, up to >500 images
	8G SD card, >11200 images	8G SD card, up to >8000 images
Storage mode	Auto/manual store image in frame	
Thermal image format	JPEG, with 14-Bit radiometric image	
Visible image format	JPEG or stored with thermal image	
Voice annotation	40s voice record,stored with per image via built-in microphone	
Periodic image storage	User defined,7s at least	
<b>Laser Point</b>		
Grade/Type	Class2,1mW/635nm Red	
<b>Interfaces</b>		
Power interface	Yes	
SD card slot	Yes	
Video output	CVBS	
Audio output	Yes	
USB	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	
Battery operating time	2hours	
External power	DC:5V±5%	
Charging system	Charger or in camera	
Power saving	Yes	
<b>Environment Parameters</b>		
Operation temperature range	-20 C ~ +50 C	
Storage temperature range	-40 C ~ +70 C	
Humidity	≤95% (Non- condense)	
Vibration	2G (IEC60068-2-6)	
Shock	25G (IEC60068-2-29)	
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 IR lens, 2 Li-ion batteries, Battery charger, Adapter, USB cable, SD card, card reader, Software CD, Warranty card ,calibration certificate	
Option	Laptop,SLR camera	

# T5|T6

## Thermal Imaging Cameras



ULIRVISION **T5|T6** are with ergonomic design, high performance with 5MP visual camera, interchangeable lens, 4,3" touch screen, manual & auto focus. It can provide powerful assistance for thermographers to have the most efficient instrument for maintenance inspections.

**T5|T6** have a wide range temperature measurement to satisfy variety of thermograph applications and they enable you to identify the small temperature difference that could cause big problems.

### Features

4.3" touch screen display

Auto/Manual focus

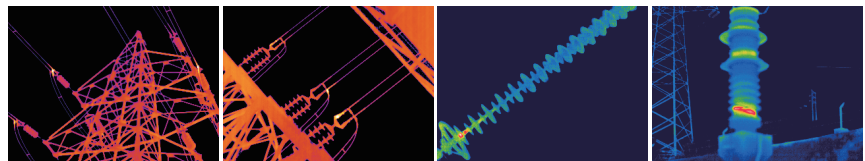
Built-in digital camera, 5.0MP resolutions

Multiple measurement: 10 spots, 5 vertical/horizontal lines, 5 boxes & 3 circles

2-meter dropprotection

### Application Case

- Building diagnostics
- Electrical or mechanical inspection
- Research & Development
- Automation applications
- Preventative & predictive maintenance



### Standard Package

standard package	
Infrared Camera×1	Converter cable×1
Li-Ion Battery×2	User Manual×1
Charger×1	Warranty Card ×1
SD Card×1	IRSee Software CD×1
SD Card Reader×1	Adapter×1
USB Cable ×1	Transport Case×1
Video Cable×1	



## Technical Specifications

Item	T5	T6
<b>Detector Data</b>		
Type	Uncooled FPA	
IR resolution	384×288	640×480
Pixel pitch	17μm	
Spectral range	7.5~14μm	
NETD/Sensitivity	50mK	40mK
<b>Lens</b>		
FOV	24°×18°	
IIFOV	1.13mrad	0.68mrad
Focus	Auto/Motor	
Lens Identification	Automatic	
Lens(optional)	45°×33°, 12°×9°	
<b>Image Performance</b>		
Display	4,3" touch screen, LCD with 800×480 pixels	
Visual camera	5.0 mega pixel	
Frequency	50Hz/60Hz	
Zoom	1X~10X continuous	
Color palettes	12 palletes(including iron, rainbow, white hot and black hot etc.)	
Contrast /brightness	Auto/Manual	
<b>Measurement</b>		
Temperature range	-20 C ~ +600 C (can be extended to 1200 C)	
Temperature accuracy	±2 C / ±2% (reading)	
Spotmeter	10 adjustable spots	
Line profile	5 Vertical/Horizontal	
Area	5 adjustable boxes&3 adjustable circles with max./min./avg. temperature value	
Isotherms analysis	Capture high/low temperature/interval	
Alarm	Voice, color	
Dew point alarm	Yes	
Measurement correction	Auto/Manual	
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials	
Backgroundtemperature correction	Auto	
Atmospheric transmissivity correction	Auto	
Setting function	Date/time, temperature unit C / F /K, language	
Video	Can be recorded and saved	
<b>Image Storage</b>		
Storage media	64G SD card, >128000 images	64G SD card, >38400 images
Storage mode	Auto/manual storeimage in frame	
Thermal image format	JPEG, with 14-Bit radiometric image	
Visible image format	JPEG or stored with signal frame image	
Voice annotation	60s voice record, stored with per image via built-in microphone	
Text Annoation	Support 30 preset text annotations(editable)	
<b>Laser Point</b>		
Grade/Type	Class2, 1mW/635nm Red	
<b>Interfaces</b>		
Power interface	Yes	
SD card slot	Yes	
WIFI	Yes	
Bluetooth	Yes	
Video output	HDMI	
USB	USB 2.0	
<b>Power System</b>		
Battery type	Lithium battery	
Battery operating time	4h continuous	
External power	DC: 10V~15V	
Charging system	Intelligent charger or in camera(AC adapter or 12V car charger)	
Power saving	Yes	
<b>Enviroment Parameters</b>		
Operationtemprange	-20 C ~ +50 C	
Storage temp range	-40 C ~ +70 C	
Humidity	≤95% (Non- condense)	
Shock	2G (IEC60068-2-6)	
Vibration	25G (IEC60068-2-29)	
Encapsulation	IP54 (IEC60529)	
<b>Physical Data</b>		
Size	262mm×125mm×138mm	
Weight	≤950g(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, calibration certificate	

# TI400S|TI600S

## Thermal Imaging Cameras



**TI400S|TI600S** are with ergonomic design, high performance with 5MP visual camera, interchangeable lens, large 5" foldable and rotatable touch LCD, manual & auto focus. They can provide powerful assistance for thermographers to have the most efficient instrument for maintenance inspections.

**TI400S|TI600S** have a wide range temperature measurement to satisfy variety of thermograph applications and they enable you to identify the small temperature difference that could cause big problems.

### Features

Folding and 270° rotatable touch LED

Auto/Motor focus for one-hand operation

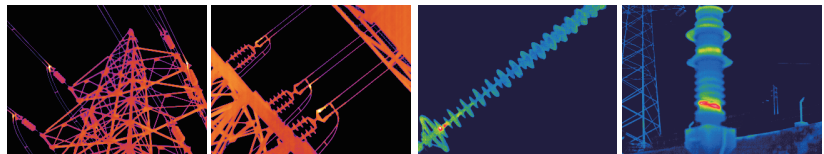
User-friendly interface, Android OS

Built-in digital camera, 5.0MP resolutions

Real-time thermal video transfer to PC via USB, and remote transfer via WIFI

### Application Case

- Building Diagnostics
- Electrical or Mechanical Inspection
- Research & Development
- Automation Applications
- Preventative & Predictive Maintenance



### Standard Package

standard package	
Thermal imaging camera x1	Certificate of Quality x1
Li-Ion Battery x2	User Manual x1
Charger x1	Warranty Card x1
SD Card x1	IRSee Software CD x1
SD Card Reader x1	Transport Case x1
USB Cable x1	Adapter x1
Video Cable x1	



# Technical Specifications

Item	TI400S	TI600S
<b>Detector Data</b>		
Type	Uncooled FPA	
IR resolution	384×288	640×480
Pixel pitch	17μm	
Spectral range	7.5~14μm	
NETD/Sensitivity	50mK	40mK
<b>Lens</b>		
FOV	24°x18°	
Minimum imaging distance	1m	0.3m
I FOV	1.2mrad	0.68mrad
Focus	Auto/Motor/Manual	
Lens(optional)	47°×35°/0.5m、12°×9°/1m、6.3°×4.7°/4m	45°×33°/0.5m、12°×9°/1m、6.2°×4.7°/8m
<b>Image Performance</b>		
Display	5"、270° rotatable LCD, 800x480 pixels	
Visual camera	5.0 mega pixel	
Frequency	50Hz/60Hz	
Zoom	1~8× continuous digital zoom	
Color palettes	12 palettes(including iron,rainbow,white hot and black hot etc.)	
Contrast/brightness	Auto/Manual	
<b>Measurement</b>		
Temperature range	-20℃ ~ +650℃ (can be extended to 1200℃)	
Temperature accuracy	±2℃ or ±2% of reading	
Spotmeter	10 adjustable spots	
Line profile	Vertical/Horizontal	
Area	5 rectangle/circle boxes with max./min./avg temperature value	
Isotherms analysis	Capture high/low temperature/interval	
Alarm	Voice, color	
Measurement correction	Auto/Manual	
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials	
Background temperature correction	Auto	
Atmospheric transmissivity correction	Auto	
Setting function	Date/time; Temperature unit C/ F /K; Language	
Video	Can be recorded and saved	
<b>Image Storage</b>		
Storage media	64G SD card, >38400 images	64G SD card, >128000 images
Storage mode	Auto/manual store image in frame	
Thermal image format	JPEG, with 14-Bit radiometric image	
Visible image format	JPEG or stored with thermal image	
Voice annotation	60s voice record,stored with per image via built-in microphone	
Text annotation	Support 30 preset text annotations ( editable)	
<b>Laser Point</b>		
Grade/Type	Class2,1mW/635nm Red	
<b>Interfaces</b>		
Power interface	Yes	
SD card slot	Yes	
WIFI	Yes	
Bluetooth	Yes	
Video output	CVBS	
Audio output	Yes	
USB	Via USB to PC	
Tripod	1/4" _20	
<b>Power System</b>		
Battery type	Lithium battery	
Battery operating time	3h continuous	
External power	DC:10V~15V	
Charging system	Intelligent,charger or in camera(AC adaper or 12V car charger)	
Power saving	Yes	
<b>Environment Parameters</b>		
Operation temperature range	-20℃ ~ +50℃	
Storage temperature range	-40℃ ~ +70℃	
Humidity	≤95% (Non- condense)	
Vibration	2G,IEC60068-2-6	
Shock	25G,IEC60068-2-29	
Enclosulation	IP54 (IEC60529)	
<b>Physical Data</b>		
Size	215mm×145mm×135mm	
Weight	≤1.6kg(with battery and standard lens)	
<b>Packing</b>		
Standard	Thermal imaging camera with Standard lens, 3 Lithium batteries, Battery charger, Adapter, USB cable, SD card, card reader, Software CD, Warranty card ,calibration certificate	
Option	Laptop,SLR camera	

# TI320+

## Gas Thermal Imaging Camera



**TI320+** is with cooled detector(QWIP, NETD<25mK) to detect SF6 and NH3 gas leaks and pinpoint the gas leaks location accurately, also offers temperature measurement. It is a multifunctional device for gas leakage detection and thermograph applications.

### Features

Cooled QWIP detector, sensitivity <math><0.025\text{ }^{\circ}\text{C}</math>, pinpoint gas leaks location quickly

Dual-application: gas leakage detection and thermograph application

Temperature range:  $-20\text{ }^{\circ}\text{C} \sim +500\text{ }^{\circ}\text{C}$

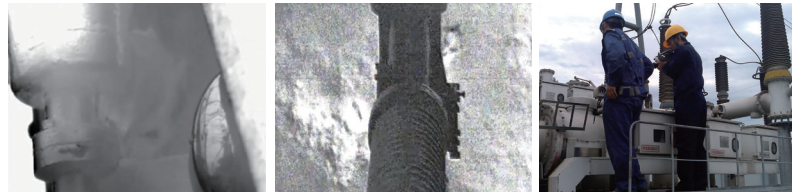
Interchangeable lenses available

Built-in 5.0 MP digital camera

Folding and 270° rotatable display

### Application Case

- Electricity
- Chemical Industry
- Environmental organization
- Research Institute



### Standard Package

standard package	
Gas Thermal Imaging Camera×1	Software CD×1
Li-Ion Battery×2	Transport case ×1
Charger×1	Adapter ×1
SD Card×2	Video cable×1
SD Card Reader×1	Headset ×1
User manual ×1	Warranty card×1





# Technical Specifications

Item	TI320+
<b>Detector Data</b>	
Type	Cooled QWIP
IR resolution	320x256
Pixel pitch	30µm
Spectral range	9.8~11.2µm
NETD/Sensitivity	25mK
SF <sub>6</sub> gas sensitivity	≤0.001ml/s
<b>Lens</b>	
FOV/Focal distance	10°x7.5°/55cm
Minimum imaging distance	2m
I FOV	0.55mrad
Focus	Manual
<b>Image Performance</b>	
Display	5" colour LCD, 800x480 pixels
Built-in visible light camera	5 megapixel CMOS, autofocus, 1 LED fill light
Frequency	50Hz/60Hz
Digital zoom	1X~8X continuous
Color palettes	12 palettes(including iron,rainbow,white hot and black hot etc.)
Contrast /brightness	Auto/Manual
<b>Measurement</b>	
Temperature range	-20 C ~ 500 C
Temperature accuracy	±2 C /±2% (reading)
Spotmeter	10 adjustable spots
Line profile	Vertical/Horizontal
Area	5 adjustable boxes with max./min./avg temperature value
Isotherms analysis	Capture high/low temperature/interval
Alarm	Voice, color
Measurement correction	Auto/Manual
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials
Background temperature correction	Auto
Atmospheric transmissivity correction	Auto
Setting function	Date/time; Temperature unit C / F /K; Language
Languages	10 languages(English, France, Italian, Spanish, Portuguess, Russian, Korean, Janpanese, Simplified Chinese & Traditional Chinese)
<b>Image Storage</b>	
Storage card	8G SD card(can be extended to 32G)
Voice output	Card reader, USB, WiFi
Storage mode	Auto/manual store image or video
Thermal image format	JPEG, 14-bit radiometric image
Visual image format	Single frame, JPEG
Voice storage	High defintion video stored in SD card(MPEG4/H.264 format).recording time up to 1 hour for per video
Voice annotation	40s voice record, stored with per image
Periodic image storage	10s to 24h
<b>Laser Point</b>	
Grade/Type	Class2, 1mW/635nm Red
<b>Interfaces</b>	
Power	Yes
SD card slot	Yes
Video output	HDMI
Audio output	Yes
Tripod	1/4" _20
<b>Power System</b>	
Battery type	Rechargeable Li-ion battery
Battery operating time	2h
DC supply	DC:12V
Charging system	In camera AC adapter, car charger
Power saving	Yes
<b>Enviroment Parameters</b>	
Operation temperature range	-15 C ~ +40 C
Storage temperature range	-20 C ~ +50 C
Humidity	≤95% (Non- condense)
EMC	EN61000-6-4&EN61000-6-2、 FCC47CFR Part15 classA、 ENG1000-4-8.L5
Vibration	2G(IEC60068-2-6)
Shock	25G(IEC60068-2-29)
Enclosulation	IP54 (IEC60529)
<b>Physical Data</b>	
Size(LxWxH)	308mmx142mmx166mm
Weight	≤2.4kg(with standard lens)
Gas Detection	Sulfur Hexafluoride(SF <sub>6</sub> ), Ammonia(NH <sub>3</sub> ), Cyanoacrylate, chlorine dioxide, acetic acid, freon-12, Ethylene, methyl ethyl ketone(MEK), etc.
<b>Packing</b>	
Standard	Thermal imaging camera with standard IR lens, 2 Li-ion batteries, battery charger, adapter, SD card, card reader, software
Optional accessories	Laptop, SLR camera

# TI330+

## Gas Thermal Imaging Camera for CH<sub>4</sub> Gas Leakage Detection



**TI330+** is with cooled detector (T2SL, NETD<25mK) to detect CH<sub>4</sub> gas leaks and pinpoint the gas leaks location accurately, also offers temperature measurement. It is a multifunctional device for gas leakage detection and thermograph applications.

### Features

Cooled T2SL detector, sensitivity  $\leq 0.025$  C, pinpoint gas leaks location quickly

Dual-application, gas leakage detection and thermograph application

Temperature range: -20 C ~ +350 C

Interchangeable lenses available

Built-in 5.0 MP digital camera

Folding and 270° rotatable display

### Application Case

- Industry: refinery, natural gas processing facility, offshore oil/gas exploration platform, chemical industry, etc.
- Research institute



### Standard Package

standard package	
Gas Thermal Imaging Camera×1	Software CD×1
Li-Ion Battery×2	Transport case ×1
Charger×1	Adapter ×1
SD Card×2	Video cable×1
SD Card Reader×1	Headset ×1
User manual ×1	Vehicle adapter×1
Warranty card×1	



# Technical Specifications

Item	Tl330+
<b>Detector Data</b>	
Type	Cooled FPA, Type II Super Lattice (T2SL)
IR resolution	320×256
Pixel pitch	30µm
Spectral range	3.1~3.5µm
NETD/Sensitivity	15mK
CH <sub>4</sub> gas sensitivity	≤0.001ml/s
<b>Lens</b>	
FOV/Focal distance	10°×7.5°/55cm
Minimum imaging distance	2m
IFOV	0.55mrad
Focus	Manual
<b>Image Performance</b>	
Display	5" colour LCD, 640×480 pixels
Built-in visible light camera	5 megapixel CMOS, autofocus, 1 LED fill light
Frequency	50Hz
Digital zoom	1X~8X continuous
Color palettes	12 palettes(including iron,rainbow,white hot and black hot etc.)
Contrast/brightness	Auto/Manual
<b>Measurement</b>	
Temperature range	-20 C ~350 C
Temperature accuracy	±2 C/±2% (reading)
Spotmeter	10 adjustable spots
Line profile	Vertical/Horizontal
Area	5 adjustable boxes with max./min./avg temperature value
Isotherms analysis	Capture high/low temperature/interval
Alarm	Voice, color
Measurement correction	Auto/Manual
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials
Background temperature correction	Auto
Atmospheric transmissivity correction	Auto
Setting function	Date/time; Temperature unit C/ F /K; Language
Languages	10 languages(English,Frence,Italian,Spanish,Portuguess,Russian,Korean,Janpanese,Simplified Chinese & Traditional Chinese)
<b>Image Storage</b>	
Storage card	8G SD card(can be extended to 32G)
Voice output	Card reader, USB, WiFi
Storage mode	Auto/manual store image or video
Thermal image format	JPEG ,14-bit radiometric data image
Visual image format	Single frame,JPEG
Voice storage	High defintion video stored in SD card(MPEG4/H.264 format).recording time up to 1 hour for per video
Voice annotation	40s voice record,stored with per image via built-in microphone
Periodic image storage	10s to 24h
<b>Laser Point</b>	
Grade/Type	Class2,1mW/635nm Red
<b>Interfaces</b>	
Power	Yes
SD card slot	Yes
Video output	CVBS
Audio output	Yes
Tripod	1/4" _20
<b>Power System</b>	
Battery type	Rechargeable Li-ion battery
Battery operating time	2h
DC supply	DC:12V
Charging system	In camera AC adapter, car charger
Power saving	Yes
<b>Enviroment Parameters</b>	
Operation temperature range	-15 C ~+40 C
Storage temperature range	-20 C ~+50 C
Humidity	≤95% (Non- condense)
EMC	EN61000-6-4&EN61000-6-2、 FCC47CFR Part15 classA、 ENG1000-4-8.L5
Vibration	2G(IEC60068-2-6)
Shock	25G(IEC60068-2-29)
Enclosulation	IP54 (IEC60529)
<b>Physical Data</b>	
Size(L×W×H)	308mm×142mm×166mm
Weight	≤2.4kg(with standard lens)
Main Gas Detection	1-Pentene,Benzene,Butane,Ethane,Ethanol,Ethylbenzene,Ethylene,Heptane,Hexane,Isoprene,MEK,Methane, Methanol,MIBK,Octane,Pentane,Propane,Propylene,Toluene,Xylene
Packing	
Standard	Thermal imaging camera with standard 10°standard lens, 2 Li-ion batteries, battery charger, adapter, car charger, SD card, SD card reader, software CD, warranty card, calibration book
Optional accessories	Laptop,SLR camera

# TI35S|TI65S

## Online Monitoring Thermal Imaging Cores



**TI35S | TI65S** are with advanced thermal imaging technologies and are our innovative thermal imaging products for online monitoring system. They are suitable for long-distance monitoring for machines, electrical equipment and flammable materials; they can detect potential dangers in time so as to ensure the safety in production.

384×288|640×480, 17μm uncooled FPA detector

Multiple motorized lenses, supporting auto focusing

Auto tracking of hot spots and showing the temperature values

Thermal images, temperature and temperature data flows are saved

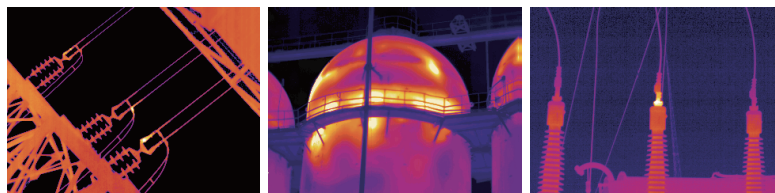
100M network transmission temperature data

Compact structure with weight of 500g

Professional software for free

### Application Case

- Online monitoring system
- Robot application
- Automation security



### Standard Package

standard package	
Thermal Imaging Core×1	Integrated Cable×1
Warranty Card×1	



# Technical Specifications

Item	TI35S	TI65S
<b>Detector Data</b>		
Type	Uncooled FPA	
IR resolution	384×288	640×480
Pixel pitch	17μm	
Spectral range	7.5~14μm	
NETD/Sensitivity	60mK	40mK
<b>Infrared Lens</b>		
Lens	Standard 15mm lens    6.2mm optional	Standard 25mm lens    13mm optional
FOV	Standard lens 24°× 18°    Optional lens 55°× 43°	Standard lens 24°× 18°    Optional lens 45°× 35°
Minimum imaging distance	50cm	
IFOV	1.13mrad    2.74mrad	0.68mrad    1.3mrad
Focus	Support auto focus	
<b>Image Performance</b>		
Image enhancement	IVE image enhancement algorithm	
Frequency	25Hz	
Digital zoom	2X、 4X	
Color palettes	10 palettes(including iron,rainbow,white hot and black hot etc.)	
<b>Measurement</b>		
Temperature range	-20 C ~ +150 C (Up to 600 C )	
Temperature accuracy	±2 C / ±2 % (reading)	
Highest temperature tracking	Display the location and value of the highest temperature point	
Measurement correction	Auto	
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials	
Background temperature correction	Auto	
Atmospheric transmissivity correction	Auto	
Filter or window transmittance	Auto	
Setting function	Date/time; Temperature unit °C / °F / K; Language	
<b>Data Storage</b>		
Temperature data	PC standard UTD format, analysis with IRX software	
Temperature data flow	Device-side standard HXR format, can be played back with IRX software, with time stamp, adjustable playback speed, freezing, looping, and image processing during playback	
Image format	JPG format	
Video format	AVI format,H.264 compression	
SD card	32G high speed card	
Storage control	Serial port command,level trigger	
Report	Word format,customized format function	
<b>Interfaces</b>		
Internet interface	100M Ethernet,RJ45,temperature data transmission	
Power interface	Yes	
Video output	SMA	
Control port	RS232、 RS485	
Alarm I/O	Yes	
API	Support SDK ( Win&Linux ), ONVIF	
<b>Power System</b>		
DC supply	DC:12V	
Power consumption	<4.8W	<6W
<b>Environment Parameters</b>		
Operation temperature range	-20 C ~ +50 C	
Storage temperature range	-40 C ~ +70 C	
Humidity	≤95% ( Non- condense )	
EMC	CE/FCC	
Vibration	5Hz~ 200Hz~5Hz 2.5G swept sine	
Shock	30G 11ms	
<b>Physical Data</b>		
Size(L×W×H)	126mm(L)×65mm(W)×67mm(H)	136mm(L)×65mm(W)×67mm(H)
Weight	≤490g	≤500g
Installation Interface	UNC 1/4"-20 standard interface,M3 threaded joint	
<b>Packing</b>		
Standard	Thermal imaging camera , integrated cable, warranty card, certificate, transport case	

# TI300PTZ|TI600PTZ

## Online Monitoring Thermal Imaging Pan&Tilt



**TI300PTZ | TI600PTZ** integrates thermal imaging camera, CCD camera and 360°continuous rotating pan&tilt. It is suitable for 24h/365d temperature monitoring for machinery, electronic equipment and flammable materials; it can detect potential dangers and automatically alarm timely so as to ensure the safety.

### Features

Visible light and infrared light

Multiple presets for long-term operation

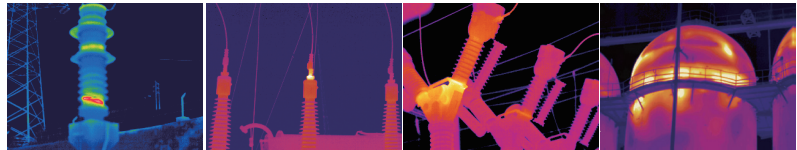
Full working environment design

Anti-shock, anti-corrosion, dustproof and water proof, IP66

Integrated design, compact and reliable

### Application Case

- Robot, power transformer station/transformer, high voltage switchgear, control room, high voltage electrical connector
- Mechanical, chemical, flammable materials, safe production
- Equipment, metallurgy



### Standard Package

standard package	
Thermal Imaging System×1	flat washer M10×4
control cable×2	Hexagon nut M10×4
user manual×1	Hexagon bolt M10×35×4
5mm allen wrench×1	spring washer M10×4
Certificate of approval×1	



# Technical Specifications

Item	TI300PTZ	TI600PTZ
<b>Detector Data</b>		
Type	Uncooled FPA	
IR resolution	384×288	640×480
Pixel pitch	17μm	
Spectral range	7.5~14μm	
NETD/Sensitivity	60mK	40mK
<b>Lens Data</b>		
Lens	Standard 15mm lens    6.2mm optional	Standard 25mm lens    13mm optional
FOV	Standard lens 24°× 18°    Optional lens 55°× 43°	Standard lens 24°× 18°    Optional lens 45°× 35°
Minimum imaging distance	50cm	
IFOV	1.13mrad                    2.74mrad	0.68mrad                    1.3mrad
Focus	Support auto focus	
<b>Infrared Measurement</b>		
Temp range	-20℃ ~+250℃ (Scalable to 650℃)	
Measurement accuracy	±2℃/±2%(Reading range), take the maximum	
Temp measurement mode	Spot measure, box measure, highest temp	
Measurement correction	Auto/Manual	
Palette	Black hot, white hot, rainbow, iron red	
Electronic zoom	2X, 4X	
<b>CCD Video Camera</b>		
Lens focal length	F4.3-129.0mm(more focal lengths are optional)	
Resolution	1920×1080, max support 2048×1536	
Signal system	PAL/NTSC	
Sensor type	1/2.8" Progressive Scan CMOS	
Zoom	30X optics, 12X digital	
Minimum illumination	0.05Lux	
SNR	>50dB	
Electronic image stabilization	ON/Off	
<b>Pan&amp;Tilt</b>		
Horizontal range	0°~360°	
Horizontal speed	0.1°~40°/s	
Vertical range	-90°~90°	
Vertical speed	0.1°~30°/s	
Presetting amount	99	
Repositioning accuracy	±0.05°	
<b>Interface</b>		
Video output	Thermal image analog video, network video	
Control	RS485	
Protocol	PECL0-D	
Baud rate	2400-4800-9600bps auto recognition	
<b>Network</b>		
Type	100Mbps	
Network protocol	IEEE802.3	
Connector interface	RJ-45	
Communication protocol	IEC60807-5-104、IEC61850	
<b>Power System</b>		
Working voltage	DC: 24V	
Power consumption	Static 10W; dynamic 23W	
<b>Environment Parameters</b>		
Operating temperature range	-25℃ ~ +50℃	
Storage temperature range	-40℃ ~ +70℃	
Encapsulation	IP66	
Vibration protection	Horizontal 9G, vertical 15G	
<b>Physical data</b>		
Size	428mm x 255mm x 233mm	
Weight	10kg	
<b>Packing</b>		
Standard	Thermal Imaging Pan&Tilt, user manual, warranty card, packing box	

# TI400PTZ

## Online Monitoring Thermal Imaging Pan&Tilt



**TI400PTZ** integrates thermal imaging camera, visible light and 360°continuous rotating pan&tilt. It is suitable for 24h/365d temperature monitoring for machinery, electronic equipment and flammable materials; it can detect potential dangers and automatically alarm timely so as to ensure the safety.

### Features

Visible light and infrared light

Multiple presets for long-term precision operation

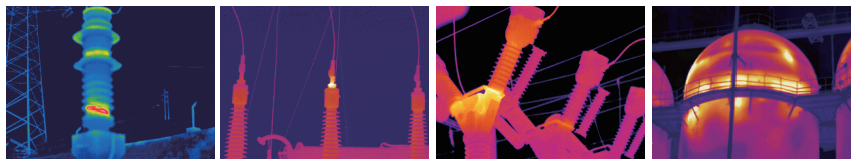
Full working environment design

Anti-shock, anti-corrosion, dustproof and water proof, IP66

Integrated design, compact and reliable

### Application Case

- Power transformer station/transformer, high voltage switchgear, control room, high voltage electrical connector
- Mechanical, chemical, flammable materials, safe production
- Equipment, metallurgy



### Standard Package

standard package	
Thermal Imaging System×1	flat washer M10×4
control cable×2	Hexagon nut M10×4
user manual×1	Hexagon bolt M10×35×4
5mm allen wrench×1	spring washer M10×4
Certificate of approval×1	





# Technical Specifications

Item	TI400PTZ
<b>Detector Data</b>	
Type	Uncooled FPA
IR resolution	384×288
Pixel pitch	17μm
Spectral range	7.5 ~ 14μm
NETD/Sensitivity	65mK
<b>Lens Data</b>	
FOV	24°×18°
Minimum imaging distance	30cm
I FOV	1.3mrad
Focus	Auto/Manual
Lens(Optional)	6.5mm、15mm、25mm motorized lens
<b>Measurement</b>	
Temperature range	-20 C ~+250 C ( Scalable to 650 C )
Measurement accuracy	±2 C/±2%(Reading range), take the maximum
Temperature measurement mode	Point temperature measurement, area temperature measurement, highest value
Measurement correction	Auto/Manual
<b>CCD Video Camera</b>	
Resolution	1920×1080
Signal system	PAL/NTSC
Sensor type	1/2.8" Progressive Scan Cmos
Zoom	20X optics, 12X digital
Minimum illumination	0.05Lux
SNR	50dB
Electronic image stabilization	ON/Off
Focal distance	F4.7-94mm
<b>Pan&amp;Tilt</b>	
Horizontal range	0°~360°
Horizontal speed	0.04°~80°/s
Vertical range	-20°~90°
Vertical speed	0.05°~60°/s
Presetting amount	255
Repositioning accuracy	±0.05°
<b>Interface</b>	
Video output	Thermal image analog video, network video
Control	RS485
Address range	0~255
Protocol	PECLO-P/PECLO-D auto recognition
Baud rate	2400-4800-9600bps auto recognition
<b>Network</b>	
Type	100Mbps
Network protocol	IEEE802.3
Connector interface	RJ-45
Communication protocol	IEC60807-5-104、IEC61850
<b>Power System</b>	
Working voltage	DC: +12V
Power consumption	<50W
<b>Environment Parameters</b>	
Operating temperature range	-25 C ~ +50 C
Storage temperature range	-40 C ~ +70 C
Encapsulation	IP66
Vibration protection	Horizontal 9G, vertical 15G
Wind protection	180km/h
<b>Physical data</b>	
Size	φ 199mm×300mm
Weight	7kg
<b>Packing</b>	
Standard	Thermal Imaging Pan&Tilt, operating instructions, warranty card, packing box

# TD90

## Corona Camera



**TD90** is an innovative NDT - Non Destructive Testing equipment, which detects, pinpoints and documents flash-arc corona and arcing partial discharge camera. Being with high sensitivity, it is a power tool to detect UV emission in full daylight with high signals from faraway and nearby sources. It is an ideal predictive maintenance device for overhead transmission lines and high voltage substations. It is widely used in transmission line inspection, electrical utilities, HV research institutes, HV electrical component inspection, HV panel inspection, service providers, laboratories and so on.

### Features

- High sensitivity to UV signals
- Precise location of corona emitting sources
- Auto focus of UV and visible channels
- Light weight 2.5kg
- 5.7" foldable color LCD
- UVSee report software for documentation

### Application Case

- Transmission line inspection
- Electrical utilities inspection
- HV substations
- HV research institutes
- HV electrical component inspection



### Standard Package

standard package	
TD90 Corona camera×1	Video Cable×1
Charger×1	CD×1
Battery×2	Operation Manual×1
12V Power Converter×1	Warranty Card×1
SD card (4G)×2	Testing Report×1
SD card reader×1	Car power converter ×1
Earphonex1	Tripod×1
Lifting band×1	Pan/tilt×1
Brief Case×1	



# Technical Specifications

Item	TD90
<b>UV - Optical properties</b>	
UV sensitivity	≤2.2 x 10 <sup>-18</sup> watt/cm <sup>2</sup>
Minimum discharge detection	1pC@10 meter
Spectral range	240-280nm
FOV	5.5°×4.0°
Focus	Auto/Manual
Focus range	2m~∞
Detector life span	No degradation
<b>Visible - Optical properties</b>	
Visible light sensitivity	0.1Lux
Focus	Auto/Manual
Zoom	12x(Digital)、25x(Optical)
<b>Image Performance</b>	
Image Display	5.7" VGA colour transfective sunlight readable LCD, folding, 640x480
UV image enhancements	Digital filtering denoising
Image frozen	Freeze the real time image
Frequency	50Hz
Modes	Combined(UV&visible),UV only,Visible only
Video standard	PAL/NTSC
<b>Image Storage</b>	
Image format	JPG
Video format	AVI
Media download	Via Card Reader
Audio format	WAV
Playback	Video/Pictures/Audio
SD card	8G SD card,64G SD card optional
Storage capacity	8000 images or 4hr video
<b>Data process</b>	
UV/Visible Overlay Accuracy	< 1 milliradian
UV image integral time	Can set the integral time
Video streaming	H:264 standard
<b>Functional characteristics</b>	
Alarms	Audio or LED
Location	GPS
Software upgrade	Upgrade via SD card
Analysis software	Generate report
<b>Output Interface</b>	
Power interface	Yes
Video output	CVBS
Audio output	Microphone
SD card slot	Yes
Tripod	1/4"-20
<b>Power System</b>	
External power	AC:110V-240V/ DC:50-60Hz/9V 4A
Battery type	Rechargeable Li-Ion
Operating runtime	2h
Charge	Online charging or charger
Power consumption	≤10W
Power saving	Yes
<b>Environmental Data</b>	
Operation temp range	-10 °C ~+50 °C
Storage temp range	-25 °C ~+60 °C
Humidity	≤95%(non-condense)
Vibration	2G(IEC60068-2-6)
Shock	25G(IEC60068-2-29)
Encapsulation	IP54(IEC60529)
EMC	EN61000-6-4&EN61000-6-2/FCC47CFR Part15 class A/EN61000-4-8.L5
<b>Physical Characteristics</b>	
Size	238mm×165mm×91mm
Weight	≤2.5kg
<b>Packing</b>	
Standard	Corona Camera UVSee TD90, AC power adapter, 2pcs Li-ion battery, charger, SD card, SD card reader, video cable, CDROM ( UVSee software and Manual), Warranty card, Strap, transport case, USB Cable
Option	Tripod

# TD100

## Corona Camera



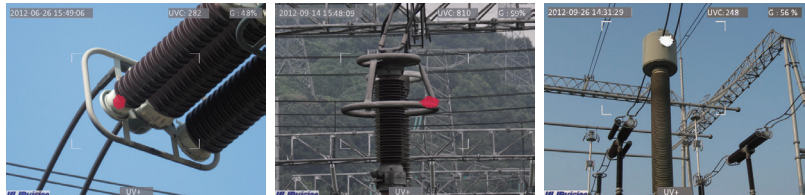
**TD100** is the latest Solar-blind UV camera which enables optical detection of UV signal in full daylight. With the high sensitivity to UV in the solar blind range, it is a powerful tool for detecting weak UV signals from long distance.

### Features

- 240nm-280nm, Solar blind
- High sensitivity to UV signals
- Precise location of corona emitting sources
- Auto focus of UV and visible channels
- Light weight 1.5kg , low power consumption
- UV events counter
- UVSee report software for documentation

### Application Case

- Transmission line inspection
- Electrical utilities inspection
- HV substations
- HV research institutes
- HV electrical component inspection



### Standard Package

standard package	
TD100 Corona camera×1	Video Cable×1
Charger×1	CD×1
Battery×2	Operation Manual×1
12V Power Converter×1	Warranty Card×1
SD card (4G)×2	Testing Report×1
SD card reader×1	Car power converter ×1
Earphonex1	Tripod×1
Lifting band×1	Pan/tilt×1
Brief Casex1	



# Technical Specifications

Item	TD100
<b>UV - Optical properties</b>	
UV sensitivity	2.2x10 <sup>-18</sup> watt/cm <sup>2</sup>
Minimum discharge detection	1 pC @ 10m
Minimum RIV sensitivity	3.6 dBμV @ 1MHz
Spectral range	240-280nm
FOV	6.4° x 4.8°
Focus	Auto/Manual
Focus range	1.5m~∞
Resolution	640 x 480
Zoom	2X, 4X (optional)
Detector life span	No degradation
<b>Visible - Optical properties</b>	
Minimum visible light sensitivity	0.1 Lux
Color	Switich between color and BW
Focus	Auto/Manual
Focus range	1m~∞
Resolution	640 x 480
Zoom	12x(Digital)、10x(Optical)
<b>Image Performance</b>	
Image display	Sun proof color LCD 5", 800x480
Image modes	Visible/UV/Combine
UV/Visible overlay accuracy	< 1 milliradian
Status indicators	Battery, Memory, Gain, Counting, Date, Selected functions, Focus, Inspection mode, corona color, GPS (access.), Temp & Humidity(access.)
User configuration settings	Corona color (White, Red, Blue, Purple) Time, Sleep Mode, LI, LCD Parameters
<b>Image Storage</b>	
Image format	JPG
Video format	AVI
Media download	Via Card Reader, USB
Audio	Stored with image
Playback	Video/Pictures/Audio
SD card	Removable SD card 32GB, 64GB SD card optional
Software upgrade	Via files downloaded from website to SD Card
Storage capacity	1000+ images or >1 hr video/1GB
<b>Control &amp; Operation</b>	
Working modes	Real time, standby, off
Control inputs	Keypad and hot keys
<b>Output Interface</b>	
Video output	CVBS/HDMI(optional), PAL
Micro USB	Data transfer, communication
Tripod	1/4"-20
<b>Power System</b>	
External power	DC: 9V~12V
Battery type	Rechargeable Li-Ion
Operating runtime	4h
Power consumption	10W
Mains adaptor	AC:110V~240V or DC: 50Hz~60Hz/9V 3.8A
<b>Environmental Data</b>	
Operation temp range	-10 C ~+50 C
Storage temp range	-25 C ~+60 C
Humidity	90% (non-condense)
Encapsulation	IP54
EMC	CE, IEC1010-1
<b>Physical Characteristics</b>	
Size	290mmx136mmx86mm
Weight	1.39kg
<b>Packing</b>	
Standard	Corona camera UVSee TD100, CD-ROM ( UVSee software and manual), USB Cable
Option	Tripod



Follow ULIRVISION, Application is All Around Make the World More Secure

## Zhejiang ULIRVISION Technology Co.,LTD.

Tel: +86(0)571 8720 9879

Web: [www.ulirvision.co.uk](http://www.ulirvision.co.uk)

Fax: +86(0)571 8512 5358

E-mail : [overseas@ulirvision.com](mailto:overseas@ulirvision.com)

Add: 8/9/10/17F, Block C, Sunwave Building, No.581, Huoju Avenue, Binjiang District, Hangzhou 310053, Zhejiang, China.



Follow  
Official website

\* This manual is for reference only. Due to product updates and improvements, contents and parameters are subject to change without notice.

# T100

## Thermal Imaging Cameras



**T100** is the latest expert-level thermal imaging camera of ULIRVISION. Product adopts 1024×768 high-pixel aSi micro-thermal detector, manual & auto integrated lens, 120° rotation, excellent imaging quality, and meets the strict requirements of scientific research institutions for high-end thermal camera.

### Features

1024×768 Uncooled detector

Manual & auto integrated lens, continuous autofocus

Automatic lens recognition, 120 ° rotation

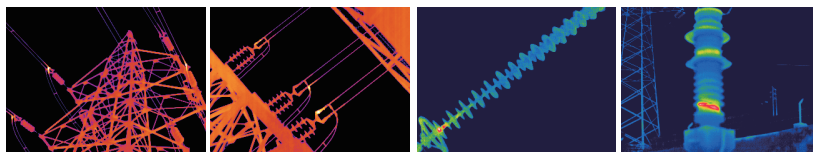
Multiple measure modes: high and low temp auto tracking, line temp measure, isothermal analysis, area temp measure

5" Touch screen, HD viewfinder, clearly visible in the sun

Bluetooth, WIFI transmission

### Application Case

- Building Diagnostics
- Electrical or Mechanical Inspection
- Research& Development
- Automation Applications
- Preventative& Predictive Maintenance



### Standard Package

standard package	
Thermal imaging camera×1	SD Card reader ×1
Battery Charger×1	SD Card×1
Adapter×1	Carrying case×1
Li-Ion batteries×1	User Manual ×1
USB Cable×1	Warranty Card ×1
HDMI Cable×1	



# Technical Specifications

Item	T100
<b>Detector Data</b>	
Type	Uncooled FPA
IR resolution	1024×768
Pixel pitch	17μm
Spectral range	7.5 ~ 14μm
NETD/Sensitivity	30mK
<b>Lens</b>	
FOV	28°×21°
Minimum imaging distance	1m
IFOV	0.48mrad
Focus	Auto/Motor/Manual
<b>Image Performance</b>	
LCD	5" touch screen, rotatable LCD, with 1280×720 pixels
Viewfinder	0.5 color OLED display, support manual zoom, 1024×768
Visual camera	5 megapixel CMOS, autofocus, LED fill light
Frequency	50Hz/60Hz
Amplification	1X ~ 10X continuous
Palette	12 palettes (including iron red, rainbow, black hot and white hot, etc.)
Contrast/brightness	Auto/Manual
<b>Measurement</b>	
Temperature range	-20 C ~ +600 C (can be extended to 1200 C)
Temperature accuracy	±2 C or ±2% of reading
Measurement mode	Real-time 10 movable spots, 5 movable rectangular areas and 3 circular areas (max./min. temp capture, avg. temp measure), 3 movable line temp measure, isothermal analysis, temp difference measure, temp alarm (sound, color)
Measurement correction	Auto/Manual
Emissivity correction	Adjustable from 0.01 to 1.0 or selected from list of materials
Background temperature correction	Auto (according to the input background temp)
Atmospheric transmissivity correction	Auto (according to the input distance, relative humidity, ambient temp)
Setting function	Date/time, temp unit C/ F/ K, language
<b>Image Storage</b>	
Sound and light alarm	Yes
<b>Image Storage</b>	
Memory card	64G
Storage method	Auto/manual store image in frame
Single frame infrared image format	JPEG, with 14-Bit measured data image
Single frame visible image format	JPEG or stored with single frame image (PIP)
Text annotation	Support 30 preset text annotations(editable)
Voice annotation	60s voice record, stored with per image via built-in microphone
<b>Laser indicator</b>	
Grade/Type	Class2, 1mW/635nm Red
<b>Interfaces</b>	
Power interface	Yes
SD card slot	Yes
Video output	HDMI
Audio output	Yes
USB interface	USB2.0, image, video, real-time video
WIFI	Yes
Bluetooth	Yes
#N/A	Yes
Tripod	1/4" _20
<b>Power System</b>	
Battery type	Lithium battery (rechargeable)
Battery operating time	4h continuous (room temperature)
External power	DC:10V~15V
Charging system	Two-seater charger or in camera (AC adapter or 12V car charger)
Power saving	Yes
<b>Environment Parameters</b>	
Operation temperature range	-20 C ~ +50 C
Storage temperature range	-40 C ~ +70 C
Humidity	≤95% (Non-condense)
Vibration	2G(IEC60068-2-6)
Shock	25G(IEC60068-2-29)
Encapsulation	IP54 (IEC60529)
<b>Physical Data</b>	
Size	186mm×106mm×141mm
Weight	≤1.7kg(with battery and standard lens)
<b>Packing</b>	
Standard	Thermal imaging camera, 2 lithium batteries, battery charger, adapter, USB cable, SD card, video cable, card reader, software CD, warranty card, certificate, calibration book, carrying case
Option	Laptop,SLR camera