ULIRVISION

THERMAL IMAGING SYSTEMS

To See The Unseen | Excellent Images

2021V1.0

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

UL ● UltravioLet

IR ● InfraRed

VISION ● 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.

ULIRVISOIN 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

SGS CE DAS ISO 9001 : 2008 CE Compliance Engineering RoHS

A Global Brand with a Local Presence

North America
Middle East
India
Africa
South America
Russia
Europe
China
Singapore
Australia

A Reliable Partner

Beijing 2008

THALES

HIKVISION

360° Technical Support & Thorough Warranty Service

24 hrs / 365 days

Completed Training System

PPT

CONTENTS

T2

Pocket Thermal Camera

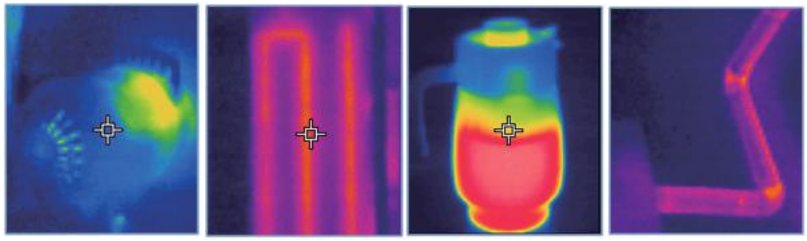
T2 is a high cost-effective hand-held thermal camera for beginners without any professional training. It is convenient to carry and can be put into the pocket, also it is quick to start and supports various measurement methods.It can be used in temperature measurement area such as electric industry, 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 Certificate×1	

Technical Specifications

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

T10

Thermal Imaging Camera

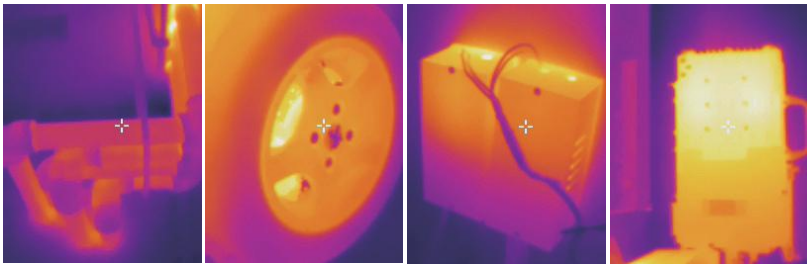
T10 is a portable thermal imaging camera. Accurate temperature measurement, real-time imaging, high-temp auto tracking, quickly lock the target. With durable quality, compact and lightweight body, integrated with multiple sensing functions of infrared, visible light, fill light, laser indicator, T10 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
Detector Data	
Type	Uncooled FPA
IR resolution	160×120
Pixel pitch	17μm
Spectral range	7.5～14μm
NETD/Sensitivity	50mK
Lens Data	
FOV	42°× 32°
Minimum imaging distance	30cm
IFOV	4.42mrad
Focus	No need to focus
Image Performance	
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
Measure	
Temperature range	-20℃～+350℃
Measurement accuracy	±2℃/±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
System functions	
USB interface	USB2.0, Image, measurement data transmission
WIFI	Yes, equipped with dedicated APP
Function settings	Date / time, temp unit ℃/℉/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)
Environment Parameters	
Operating temperature range	-20℃～+55℃
Storage temperature range	-40℃～+70℃
Humidity	≤95%(non-condensing)
Drop protection	2m
Encapsulation	IP54(IEC60529)
Physical data	
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

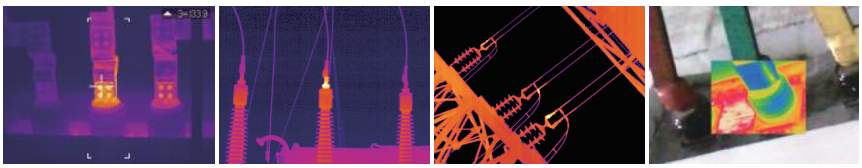
TI175 | TI395 are affordable, easy-to-operate and high-performance thermal imaging cameras that offer accurate temperature measurements at safe distances.They have a wide range of temperature measurements to satisfy a variety of thermograph applications. They are widely used in electricity and industry 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
Detector Data		
Type	Uncooled FPA	
IR resolution	160×120	384×288
Pixel pitch	17μm	
Spectral range	7.5～14μm	
NETD/Sensitivity	70mK	
Lens		
FOV/Minimum imaging distance	24°x18°/20cm	24°x18°/50cm
IFOV	2.62mrad	1.13mrad
Focus	Auto/Motor	
Lens(optional)	45°x34°/50cm、12°x9°/1m、6°x4.5°/4m	
Image Performance		
Display	3.2″、270°tiltable LCD，800x480 pixels	
Visual camera	3.0 mega pixel	
Frequency	50Hz/60Hz	
Zoom	1×～4× continuous	1×～8× continuous
Color palettes	12 palettes(including iron,rainbow,white hot and black hot etc.)	
Contrast /brightness	Auto/Manual	
Measurement		
Temperature range	-20℃～+250℃(Standard)、 200℃ ～ +600℃(Optional)	
Temperature accuracy	±2℃/ ±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 ℃/℉/K; Language	
Languages	10 languages(English,French,Italian,German,Spanish,Portuguese,Russian,Korean,Japanese,Simplified Chinese & Traditional Chinese)	
Image Storage		
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 themal image	
Voice annotation	40s voice record,stored with per image via built-in microphone	
Periodic image storage	User defined,7s at least	
Laser Point		
Grade/Type	Class2,1mW/635nm Red	
Interfaces		
Power interface	Yes	
SD card slot	Yes	
Video output	CVBS	
Audio output	Yes	
USB	USB 2.0 radiometric images,measurement data and voice are transfered to PC	
Tripod	1/4″ –20	
Power System		
Battery type	Lithium battery	
Battery operating time	3hours	
External power	DC:5V±5%	
Charging system	Charger or in camera	
Power saving	Yes	
Enviroment Parameters		
Operation temperature range	-20℃～+50℃	
Storage temperature range	-40℃～+70℃	
Humidity	≤95%（Non- condense）	
Vibration	2G（IEC60068-2-6）	
Shock	25G（IEC60068-2-29）	
Encapsulation	IP54 (IEC60529)	
Physical Data		
Size	128mm×62mm×154mm	
Weight	≤0.4Kg(with battery and standard lens)	
Packing		
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.

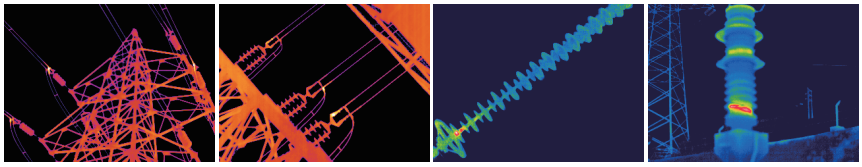
T5|T6 have a wide range temperature measurement to satisfy variety of thermograph applications and they enable you to identify the small temperature difference that could cause big problems.

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-meterdropprotection

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
Detector Data		
Type	Uncooled FPA	
IR resolution	384×288	640×480
Pixel pitch	17μm	
Spectral range	7.5～14μm	
NETD/Sensitivity	50mK	40mK
Lens		
FOV	24°x18°	
IFOV	1.13mrad	0.68mrad
Focus	Auto/Motor	
Lens Identification	Automatic	
Lens(optional)	45°×33°,12°×9°	
Image Performance		
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	
Measurement		
Temperature range	-20℃～+600℃(can be extended to 1200℃)	
Temperature accuracy	±2℃/±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 ℃/℉/K, language	
Video	Can be recorded and saved	
Image Storage		
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)	
Laser Point		
Grade/Type	Class2,1mW/635nm Red	
Interfaces		
Power interface	Yes	
SD card slot	Yes	
WIFI	Yes	
Bluetooth	Yes	
Video output	HDMI	
USB	USB 2.0	
Power System		
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	
Enviroment Parameters		
Operationtemprange	-20℃～+50℃	
Storage temp range	-40℃～+70℃	
Humidity	≤95%（Non- condense）	
Shock	2G（IEC60068-2-6）	
Vibration	25G（IEC60068-2-29）	
Encapsulation	IP54 (IEC60529)	
Physical Data		
Size	262mm×125mm×138mm	
Weight	≤950g(with battery and standard lens)	
Packing		
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.

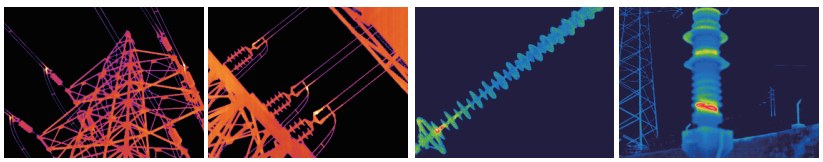
TI400S|TI600S have a wide range temperature measurement to satisfy variety of thermograph applications and they enable you to identify the small temperature difference that could cause big problems.

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×1	Certificate of Quality×1
Li-Ion Battery×2	User Manual ×1
Charger×1	Warranty Card ×1
SD Card×1	IRSee Software CD×1
SD Card Reader×1	Transport Case×1
USB Cable ×1	Adapter×1
Video Cable×1	

Technical Specifications

Item	TI400S	TI600S
Detector Data		
Type	Uncooled FPA	
IR resolution	384×288	640×480
Pixel pitch	17μm	
Spectral range	7.5～14μm	
NETD/Sensitivity	50mK	40mK
Lens		
FOV	24°x18°	
Minimum imaging distance	1m	0.3m
IFOV	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
Image Performance		
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	
Measurement		
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 ℃/℉/K; Language	
Video	Can be recorded and saved	
Image Storage		
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)	
Laser Point		
Grade/Type	Class2,1mW/635nm Red	
Interfaces		
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	
Power System		
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	
Enviroment Parameters		
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)	
Physical Data		
Size	215mm×145mm×135mm	
Weight	≤1.6kg(with battery and standard lens)	
Packing		
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 <0.025℃, pinpoint gas leaks location quickly
- Dual-application: gas leakage detection and thermographapplication
- Temperature range: -20℃～+500℃
- 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+
Detector Data	
Type	Cooled QWIP
IR resolution	320×256
Pixel pitch	30μm
Spectral range	9.8～11.2μm
NETD/Sensitivity	25mK
SF_6 gas sensitivity	≤0.001ml/s
Lens	
FOV/Focal distance	10°x7.5°/55cm
Minimum imaging distance	2m
IFOV	0.55mrad
Focus	Manual
Image Performance	
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
Measurement	
Temperature range	-20℃～500℃
Temperature accuracy	±2℃/±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 ℃/℉/K; Language
Languages	10 languages(English,Frence,Italian,Spanish,Portuguess,Russian,Korean,Janpanese,Simplified Chinese & Traditional Chinese)
Image Storage	
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
Laser Point	
Grade/Type	Class2,1mW/635nm Red
Interfaces	
Power	Yes
SD card slot	Yes
Video output	HDMI
Audio output	Yes
Tripod	1/4" _20
Power System	
Battery type	Rechageable Li-ion battery
Battery operating time	2h
DC supply	DC:12V
Charging system	In camera AC adapter.car charger
Power saving	Yes
Enviroment Parameters	
Operation temperature range	-15℃～+40℃
Storage temperature range	-20℃～+50℃
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)
Physical Data	
Size(L×W×H)	308mm×142mm×166mm
Weight	≤2.4kg(with standard lens)
Gas Detection	Sulfur Hexafluoride(SF6), Ammonia(NH3), Cyanoacrylate, chlorine dioxide, acetic acid, freon-12, Ethylene, methyl ethyl ketone(MEK), etc.
Packing	
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_4 Gas Leakage Detection

TI330+ is with cooled detector（T2SL, NETD＜25mK） to detect CH_4 gas leaks and 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 ≤0.025℃, pinpoint gas leaks location quickly
- Dual-application, gas leakage detection and thermograph application
- Temperature range: -20℃～+350℃
- 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, chemicalindustry, 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	TI330+
Detector Data	
Type	Cooled FPA, Type II Super Lattice（T2SL）
IR resolution	320×256
Pixel pitch	30μm
Spectral range	3.1～3.5μm
NETD/Sensitivity	25mK
CH_4 gas sensitivity	≤0.001ml/s
Lens	
FOV/Focal distance	10°x7.5°/55cm
Minimum imaging distance	2m
IFOV	0.55mrad
Focus	Manual
Image Performance	
Display	5"colour LCD，640x480 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
Measurement	
Temperature range	-20℃～350℃
Temperature accuracy	±2℃/±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 ℃/℉/K; Language
Languages	10 languages(English,Frence,Italian,Spanish,Portuguess,Russian,Korean,Janpanese,Simplified Chinese & Traditional Chinese)
Image Storage	
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
Laser Point	
Grade/Type	Class2,1mW/635nm Red
Interfaces	
Power	Yes
SD card slot	Yes
Video output	CVBS
Audio output	Yes
Tripod	1/4″ _20
Power System	
Battery type	Rechageable Li-ion battery
Battery operating time	2h
DC supply	DC:12V
Charging system	In camera AC adapter, car charger
Power saving	Yes
Enviroment Parameters	
Operation temperature range	-15℃～+40℃
Storage temperature range	-20℃～+50℃
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)
Physical Data	
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

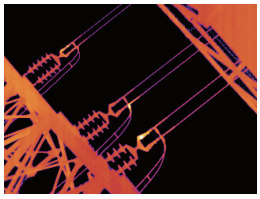
Online Monitoring Thermal Imaging Cores

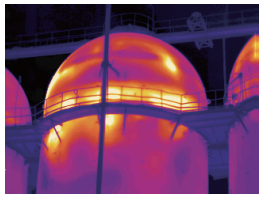
TI35S | TI65S are with advanced thermal imaging technologies and are our innovative thermal imaging products for online monitoring system. They are suitable for long-distance monitoring for machines, electrical equipment and flammable materials; they can detect potential dangers in time so as to ensure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

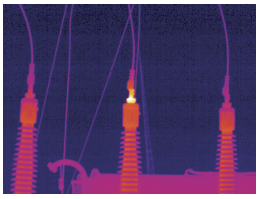
- 384×288|640×480, 17μm uncooled FPA detector
- Multiple motorized lenses, supporting auto focusing
- Auto tracking of hot spots and showing the temperature values
- Thermal images, temperature and temperature data flows are saved
- 100M network transmission temperature data
- Compact structure with 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	
Detector Data				
Type	Uncooled FPA			
IR resolution	384×288		640×480	
Pixel pitch	17μm			
Spectral range	7.5～14μm			
NETD/Sensitivity	60mK		40mK	
Infrared Lens				
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			
Image Performance				
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.)			
Measurement				
Temperature range	-20℃～+150℃（Up to 600℃）			
Temperature accuracy	±2℃/±2% (reading)			
Highest temperature tracking	Display the location and value of the highest temperature point			
Measurement correction	Auto			
Emissivity correction	Ajustable 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 ℃/℉/K; Language			
Data Storage				
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			
Interfaces				
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			
Power System				
DC supply	DC:12V			
Power consumption	＜4.8W		＜6W	
Enviroment Parameters				
Operation temperature range	-20℃～+50℃			
Storage temperature range	-40℃～+70℃			
Humidity	≤95%（Non- condense）			
EMC	CE/FCC			
Vibration	5Hz~ 200Hz~5Hz 2.5G swept sine			
Shock	30G 11ms			
Physical Data				
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			
Packing				
Standard	Thermal imaging camera , integrated cable, warranty card, certificate, transport case			

TI300PTZ|TI600PTZ

Online Monitoring Thermal Imaging Pan&Tilt

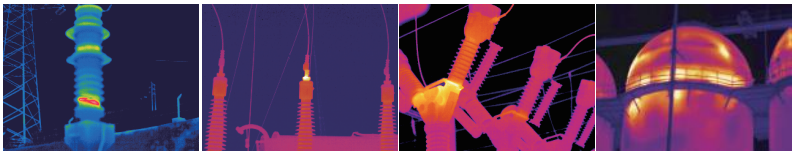
TI300PTZ | TI600PTZ integrates thermal imaging camera, CCD camera and 360°continuous rotating pan&tilt. It is suitable for 24h/365d temperature monitoring for machinery, electronic equipment and flammable materials; it can detect potential dangers and automatically alarm timely so as to ensure the safety.

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 M10x35×4
5mm allen wrench×1	spring washer M10×4
Certificate of approval×1	

Technical Specifications

Item	TI300PTZ		TI600PTZ	
Detector Data				
Type	Uncooled FPA			
IR resolution	384×288		640×480	
Pixel pitch	17μm			
Spectral range	7.5～14μm			
NETD/Sensitivity	60mK		40mK	
Lens Data				
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			
Infrared Measurement				
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			
CCD Video Camera				
Lens focal length	F4.3-129.0mm(more focal lengths are optional)			
Resolution	1920×1080, max support 2048x1536			
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			
Pan&Tilt				
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°			
Interface				
Video output	Thermal image analog video, network video			
Control	RS485			
Protocol	PECLO-D			
Baud rate	2400-4800-9600bps auto recognition			
Network				
Type	100Mbps			
Network protocol	IEEE802.3			
Connector interface	RJ-45			
Communication protocol	IEC60807-5-104、IEC61850			
Power System				
Working voltage	DC: 24V			
Power consumption	Static 10W; dynamic23W			
Environment Parameters				
Operating temperature range	-25℃～+50℃			
Storage temperature range	-40℃～+70℃			
Encapsulation	IP66			
Vibration protection	Horizontal 9G, vertical15G			
Physical data				
Size	428mm x255mm x 233mm			
Weight	10kg			
Packing				
Standard	Thermal Imaging Pan&Tilt, user manual, warranty card, packing box			

TI400PTZ

Online Monitoring Thermal Imaging Pan&Tilt

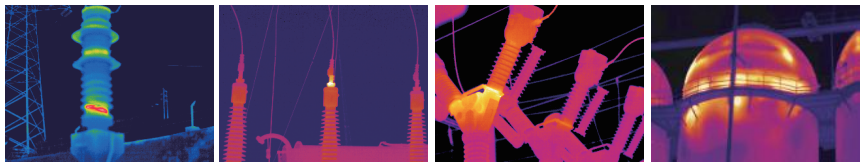
TI400PTZ integrates thermal imaging camera, visible light and 360°continuous rotating pan&tilt. It is suitable for 24h/365d temperature monitoring for machinery, electronic equipment and flammable materials; it can detect potential dangers and automatically alarm timely so as to ensure the safety.

Features

- Visible light and infrared light
- Multiple presets for long-term precision operation
- Full working environmentdesign
- Anti-shock, anti-corrosion, dustproof and water proof, IP66
- Integrated design, compact and reliable

Application Case

- Power transformer station/transformer, highvoltage 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 M10x35×4
5mm allen wrench×1	spring washer M10×4
Certificate of approval×1	

Technical Specifications

Item	TI400PTZ
Detector Data	
Type	Uncooled FPA
IR resolution	384×288
Pixel pitch	17μm
Spectral range	7.5～14μm
NETD/Sensitivity	65mK
Lens Data	
FOV	24°×18°
Minimum imaging distance	30cm
IFOV	1.3mrad
Focus	Auto/Manual
Lens(Optional)	6.5mm、15mm、25mm motorized lens
Measurement	
Temperature range	-20℃~+250℃（Scalable to 650℃）
Measurement accuracy	±2℃/±2%(Reading range), take the maximum
Temperature measurement mode	Point temperature measurement, area temperature measurement, highest value
Measurement correction	Auto/Manual
CCD Video Camera	
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
Pan&Tilt	
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°
Interface	
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
Network	
Type	100Mbps
Network protocol	IEEE802.3
Connector interface	RJ-45
Communication protocol	IEC60807-5-104、IEC61850
Power System	
Working voltage	DC：+12V
Power consumption	<50W
Environment Parameters	
Operating temperature range	-25℃～+50℃
Storage temperature range	-40℃～+70℃
Encapsulation	IP66
Vibration protection	Horizontal 9G, vertical15G
Wind protection	180km/h
Physical data	
Size	ϕ199mm×300mm
Weight	7kg
Packing	
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
Earphone×1	Tripod×1
Lifting band×1	Pan/tilt×1
Brief Case×1	

Technical Specifications

Item	TD90
UV - Optical properties	
UV sensitivity	≤2.2 x 10-18watt/cm²
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
Visible - Optical properties	
Visible light sensitivity	0.1Lux
Focus	Auto/Manual
Zoom	12x(Digital)、25x(Optical)
Image Performance	
Image Display	5.7" VGA colour transflective 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
Image Storage	
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
Data process	
UV/Visible Overlay Accuracy	＜ 1 milliradian
UV image integral time	Can set the integral time
Video streaming	H:264 standard
Functional characteristics	
Alarms	Audio or LED
Location	GPS
Software upgrade	Upgrade via SD card
Analysis software	Generate report
Output Interface	
Power interface	Yes
Video output	CVBS
Audio output	Microphone
SD card slot	Yes
Tripod	1/4"-20
Power System	
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
Environmental Data	
Operation temp range	-10 ℃~+50 ℃
Storage temp range	-25 ℃~+60 ℃
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
Physical Characteristics	
Size	238mm×165mm×91mm
Weight	≤2.5kg
Packing	
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
Earphone×1	Tripod×1
Lifting band×1	Pan/tilt×1
Brief Case×1	

Technical Specifications

Item	TD100
UV - Optical properties	
UV sensitivity	2.2x10-18 watt/cm²
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
Visible - Optical properties	
Minimum visible light sensitivity	0.1 Lux
Color	Swtich between color and BW
Focus	Auto/Manual
Focus range	1m~∞
Resolution	640 x 480
Zoom	12x(Digital)、10x(Optical)
Image Performance	
Image display	Sun proof color LCD 5", 800×480
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
Image Storage	
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
Control & Operation	
Working modes	Real time, standby, off
Control inputs	Keypad and hot keys
Output Interface	
Video output	CVBS/HDMI(optional), PAL
Micro USB	Data transfer, communication
Tripod	1/4"-20
Power System	
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
Environmental Data	
Operation temp range	-10℃~+50℃
Storage temp range	-25℃~+60℃
Humidity	90% (non-condense)
Encapsulation	IP54
EMC	CE, IEC1010-1
Physical Characteristics	
Size	290mm×136mm×86mm
Weight	1.39kg
Packing	
Standard	Corona camera UVSee TD100, CD-ROM (UVSee software and manual),USB Cable
Option	Tripod