

# TI120

## Thermal Imaging Camera for Medical Application

**ULIRIVISION TI120** is a professional thermal imaging camera for medical application. It utilizes advanced thermal imaging technology and can take thermal imaging for flowing crowds with accurate, non contact, non invasive method to visualize skin surface temperature difference. It is the ideal instrument of the frontline of defense for government and corporation in public and private sectors to present possible fatal virus like SARS, bird flu, H1N1 flu, etc. It can also be applied for clinical diagnostics, veterinarian and medical research.

### Features

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- Bright 3.5 color LCD

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  - 50Hz real-time imaging

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  - High accuracy, +/- 0.6°C

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  - Automatic search and alarm

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  - Non-contact monitoring



### Applications

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- Clinical diagnostics

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  - Veterinarian

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  - Medical research

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  - Disease ares

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  - Public areas

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## Technical Specifications

Item	TI120
<b>Detector Data</b>	
Type	Uncooled FPA
IR resolution	160×120
Pixel pitch	25μm
Spectral range	7.5~14μm
NETD/Sensitivity	65mK
<b>Lens</b>	
FOV/Minimum imaging distance	21°×16°/15cm
I FOV	2.3mrad
Focus	Manual
Lens(Optional)	35°×27°/5cm、4°×3°/80cm
<b>Image Performance</b>	
Display	3.5" color LCD, 320×240 pixels
Frequency	50Hz/60Hz
Digital zoom	2X
Contrast/brightness	Auto/Manual
<b>Measurement</b>	
Temperature range	-20℃~+50℃
Temperature accuracy	±0.6℃
Spotmeter	1 adjustable spot
Line profile	Vertical/Horizontal
Area	1 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
Video	Can be recorded and saved
<b>Image Storage</b>	
Storage type	Built-in flash card, up to 1500 images
Storage mode	Store signal frame image auto/manual
Files format	JPEG, 14-bit measurement data image included
Voice annotation	40s voice record, stored with per image via built-in microphone
<b>Laser Point</b>	
Grade/Type	Class 2, 1mW/635nm Red
<b>Interfaces</b>	
Power	Yes
Video output	CVBS
Audio output	Yes
USB	USE2.0, radiometric images, measurement data and voice are transferred to PC
Tripod	1/4" -20
<b>Power System</b>	
Battery type	Rechargeable li-ion battery
Battery operation time	3hours
DC supply	DC: 12V ±5%
Charging system	In camera or intelligent 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)
Encapsulation	IP54(IEC60529)
<b>Physical Data</b>	
Size(L×W×H)	330mm×95mm×86mm
Weight	≤0.65kg(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
Optional accessories	Laptop, SLR camera