TI175|TI395

Thermal Imaging Cameras for Electricity & Industry Application

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

Applications

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

ULIRVISION

Technical Specifications

Item	TI175	TI395
Detector Data		
Type	Uncooled FPA	
IR resolution	160×120	384×288
Pixel pitch	25um	
Spectral range	7.5～14μm	
NETD/Sensitivity	50mK	
Lens		
FOV/Minimum imaging distance	24°×18°/15cm	24°×18°/30cm
IFOV	2.3mrad	1.2mrad
Focus	Auto/Motor	
Lens(Optional)	45°×34°/15cm、12°×9°/1m、6°×4.5°/3m	
Image Performance		
Display	3.2", 270° tiltable LCD, 800×480 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	
Measurement		
Temperature range	-20℃～+100℃、-20℃～+250℃(can be extended to 1200℃)	
Measurement 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 4G SD card, up to >11200 images	Built-in flash card, up to >500 images 4G 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	
Laser Point		
Grade/Type	Class 2, 1mW/635nm Red	
Interfaces		
Power interface	Yes	
SD card slot	Yes	
Video output	CVBS	
Audio output	Yes	
USB	USE2.0, 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	Intelligent charger or in camera	
Power saving	Yes	
Environment Parameters		
Operating temperature range	-20℃～+50℃	
Storage temperature range	-40℃～+70℃	
Humidity	≤95%(Non-condense)	
Shock	2G(IEC60068-2-6)	
Vibration	25G(IEC60068-2-29)	
Encapsulation	IP54(IEC60529)	
Physical Data		
Size	158mm×62mm×54mm	
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	