

Тепловизоры серий DT-980, DT-982

Технические характеристики

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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727)345-47-04

Беларусь +375-257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: mce@nt-rt.ru || сайт: <https://cem.nt-rt.ru/>



DT-980B/980/980A/980L-8/980H/982/982H

980 (80x80), 982 (160x120) Thermal Imagers are designed to make your work easier, more productive and effective. 980 series have power auto fusion mode which is a dynamic image enhancement-algorithm for infrared cameras. 160 × 120 resolution at 50 Hz for real-time capture; Temperature range from -20°C to 650°C (-4°F to 1202°F), 32X continuous zoom, picture-in-picture, voice comment recording and text annotation on images. Hot/Cold spot marker automatically finds the hottest and coldest spots. It includes memory card, Lithium polymer battery & power supply, and USB cable. Wi-Fi connectivity allows the Infrared Thermal Camera to send images and data to mobile devices.

share reports and critical information quickly

Product characteristics	
High Resolution IR Images	19,200 pixels (160x120) Infrared resolution(982)
Visible Light Digital Camera	5 Megapixels Digital camera resolution with flash provides sharp images regardless of lighting conditions
Picture in Picture	Displays thermal image super-imposed over a digital image
LED Flashlight	Allows the visual camera and fusion to be used in poorly lit environments
Wide Temperature Range	From -20 to +650°C targeting electrical and industrial applications
±2% Accuracy	Reliable temperature measurement
Thumbnail view	Easy to view and analyze images quickly
Audio recorded with the video image	A speaker to listen to audio recorded with the video image
Li-Ion Rechargeable Battery	>4hrs continuous use; replaceable
HDMI	HDMI High resolution video output
Inside 100M Memory	About 80pictures or one minute video record
Copy to USB	Easy uploads images from camera to USB memory card
Area (Min/Max) Mode	Shows the Minumum or the Maximum Temperature reading in the selected area
Wi-Fi connectivity	Transfers images and data to mobile devices to share reports and critical information quickly (DT-980A/981B/981)
Auto Fusion mode	AUF is a dynamic image enhancement-algorithm for infrared cameras

Specifications					
	980B	980/980H	980A	980L-8	982/982H
Imaging and optical data					
IR resolution	80×80 pixels	80×80 pixels	80×80 pixels	80×80 pixels	160×120 pixels
Focal Plane Array (FPA) /Spectral range	Uncooled microbolometer / 8–14 μm				
Focal length	7.5mm	9mm	9mm	19mm	9mm
Field of View (FOV)	21x21°	17x17°	17x17°	8x8°	22.6x29.8°
Minimum focus distance				0.2m	
Spatial resolution	4.53mrad	3.77mrad	3.77mrad	1.78mrad	3.33mrad
Thermal sensitivity/NETD	< 0.08°C /80mK				
Image frequency	50Hz				
Focus	Manual				
Zoom	1-32x continuous, digital zoom				
Image presentation					
Image modes	IR image, visual image, picture in picture, AUF				
Picture in Picture	IR area on visual image				
Color palettes	IRON/Rainbow/Grey/Grey Inverted				
Measurement					
Object temperature range	–20 to 150°C (–4 to 302°F) 0 to 350°C (32 to 662°F) extended to –20 to 650°C (980H, 982H)				
Accuracy	±2°C (±3.6°F) or ±2% of reading				
Measurement analysis					
Spotmeter	Center Spot,Auto hot or cold markers				
Set-up					
Language selection	English, Chinese, French, German, Spanish				
Storage of videos/images					
Inside Memory / Storage media	100M bytes, 80pictures or one minute video record / 8G Micro SD card				
Video storage format	Standard MPEG-4, 1280x960@30fps, on memory card > 60 minutes				
Image storage format	Standard JPEG, including measurement data, on memory card > 1000 pictures				
Digital camera					
Built-in visible light digital camera	No	5Megapixels; 59°			
Data communication interfaces					

Interfaces &Video output	USB-micro, audio, HDMI				
USB	Data & Live video transform between camera and PC or smartphone				
WIFI					
Live video between device and PC	No	No	Yes	No	No
Transfer images and data to mobile devices	No	No	Yes	No	No
Power system					
Battery / Input voltage / Laser	Li-ion battery, 4 hours operating time / DC 5V / < 1mW				



High Performance High Resolution Thermal Imagers DT-980Y

The DT-980Y is a rapid screening Thermal Imager for measuring surface temperatures. With 20 ms fast thermal imaging, non-contact testing is easier and helps in improving the detection efficiency as well as assist on protection by prevention.

It automatically tracks the highest/lowest temperatures and easily finds the abnormal temperature in the detection area.

The external large display terminals make on-site monitoring much easier. Transfer data online to the free Thermview+ App and use the powerful analysis software.

With an 80x80px resolution, 32x continuous digital zoom and the patented AUF thermal imaging, the DT-980Y is the ultimate tool in detection and prevention of diseases like the COVID-19 Coronavirus.

Imaging and optical data	DT980Y
Field of view (FOV) / Minimum focus distance	17°x 17° / 0.1m
Spatial resolution (IFOV)	3.78mrad
IR resolution	80 × 80 pixels
Thermal sensitivity/NETD	< 0.1°C @ +30°C (+86°F) / 100 mK
Image frequency	50Hz
Focus mode	Manual
Zoom	1–32× continuous, digital zoom

Focal length	9mm
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8–14 μm
Image presentation	
Display	2.8 in. LCD, 240 × 320 pixels
Image modes	IR image Visual image Image Fusion
Color palettes	IRON Rainbow Grey Grey Inverted
Measurement	
Object temperature range	Filter mode: 32 to 42 (89.6°F to 107.6°F) – 20°C to +150°C (–4°F to +302°F) 0°C to +350°C (+32°F to +662°F)
Accuracy	± 0.3 ($\pm 0.6^\circ\text{F}$) in 32 to 42 (89.6°F to 107.6°F) (Specifically calibrated for human temperature range) $\pm 2^\circ\text{C}$ ($\pm 3.6^\circ\text{F}$) or $\pm 2\%$ of reading (Environment temperature 10 -35 object temperature > 0 .)
Measurement analysis	
Spot	Center Spot
Automatic hot /cold detection	Auto hot or cold markers
Emissivity correction	Variable from 0.01 to 1.0
Measurement corrections	Emissivity, Re flected temperature
Storage of videos	
Storage media	8Gbytes Micro SD card
Video storage format	Standard MPEG-4 encode, 1280x960@30fps, on memory card > 60 minutes
Video storage mode	IR/visual images; simultaneous storage of IR and visual images
Storage of images	
Image storage format	Standard JPEG, including measurement data, on memory card > 6000 pictures
Image storage mode	IR/visual images; simultaneous storage of IR and visual images

Set-up	
Laser	< class2
Set-up commands	Local adaptation of units, language, date and time formats, information of camera
Languages	multinational
Digital camera	
Built-in digital camera	5 Megapixels
Built-in digital lens data	FOV 59°
Data communication interfaces	
Interfaces	USB-mini, audio, HDMI
USB	Data transform between camera and PC Live video between camera and PC
Video out	HDMI
Power system	
Battery	Li-ion battery, 4 hours operating time
Input voltage	DC 5V
Charging system	In camera (AC adapter)
Power management	Automatic shutdown
Environmental data	
Operating temperature range	-15°C to +50°C (5°F to +122°F)
Storage temperature range	−40°C to +70°C (−40°F to +158°F)
Humidity (operating and storage)	10% 90%
Drop test	2m
Bump	25g(IEC60068-2-29)
Vibration	2g(IEC60068-2-6)
Physical data	
Camera weight, incl. battery	<500g
Camera size (L Ĩ W Ĩ H)	224x77x96



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