Thermal Imagers Selection Guide

Model number	DT-982H	DT-982	DT-982RH	DT-980H	DT-980A	DT-980L-8	DT-980	DT-981	DT-981B
IR resolution	160x120	160x120	160x120	80x80	80x80	80x80	80x80	120x160	120x90
Field of View (FOV)	22.6° x 29.8°	22.6° x 29.8°	22.6° x 29.8°	17° x 17°	17° x 17°	8° x 8°	17° x 17°	20.7° x 15.6°	50 x 38°
IFOV	3.33mrad	3.33mrad	3.33mrad	3.77mrad	3.77mrad	1.79mrad	3.77mrad	2.26mrad	5.48mrad
Display	2.8" 240x320								
Object temperature range	−20~650°C	−20~350°C	−20~350°C	−20~650°C	−20~350°C				
Visble camera	5M (IR fusion, AUF)							2M (IR fusion, AUF)	
WiFi					*			*	*
Video record	*	*	*	*	*	*	*	*	*
Probe air Temp. & %RH			*						

Specifications

Specifications	980B	980/980H/980Y	980A	980L-8	981B	981	982/982H/982Y
Imaging and optical data							
IR resolution	80×80 pixels	80×80 pixels	80×80 pixels	80×80 pixels	120×90 pixels	120×160 pixels	160×120 pixels
Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8–14 μm						
Focal length	7.5mm	9mm	9mm	19mm	7.5mm	6.2mm	9mm
Field of View (FOV)	21x21°	17x17°	17x17°	8x8°	50x30.8°	20.7x15.6°	22.6x29.8°
Minimum focus distance	0.2m						
Spatial resolution	4.53mrad	3.77mrad	3.77mrad	1.78mrad	5.48mrad	2.26mrad	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 (Temp. screening mode for 980Y/982Y)							
Object temperature range	Screening mode: 32°C to 42°C(-89.6°F to 107.6°F) (980Y/982Y)						
	-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	Screening mode: ±0.5°C (±0.9°F)in 32°C to 42°C (980Y/982Y)						
	±2°C (±3.6°F) or ±2% of reading						
Screening temperature range	32~42°C (980Y/982Y)						
Temperature measurement accuracy	±0.5°C (980Y/982Y)						
Test area	1 meter distance: 44cmx33cm (980Y/982Y)						
	2 meters distance: 88cmx66cm (980Y/982Y)						
Full-field high-temperature tracking	Red crosshair mark (980Y/982Y)						
High temperature alarm setting	Default 37.3°C (980Y/982Y)						
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°					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	Yes	Yes	No
Transfer images and data to mobile devices	No	No	Yes	No	Yes	Yes	No
Power system							
Battery / Input voltage / Laser	Li-ion battery, 4 hours operating time / DC 5V / < 1mW						

Size(HxWxD): 224mm x 77mm x 96mm   Weight: 500g

Accessories: Lens, Earphone(Optional), Battery, software CD-ROM, Wrist strap, micro SD card, Adaptor, USB cable & HDMI cable (Optional), Gift box.