Imaging and optical data IR resolution 80×80 pixels 120×160	Specifications	DT-980	DT-982	
Focal Plane Array (FPA) / Spectral range Focal length Focal length Focal length Focal length Field of View (FOV) Field of View (FOV) Field of View (FOV) Focal length Field of View (FOV) Focal length Focal length Field of View (FOV) Focal length Focal length Focal length Focal length Field of View (FOV) Focal Plane Array (FPA) / Spectral range Focal length Focal length Focal length Focal length Focal length Focal length Focal Plane Array (FPA) / Spectral range Field of View (FOV) Focal Plane Array (FPA) / Spectral range Focal length Focal Plane Array (FPA) / Spectral range Focal length Focal Plane Array (FPA) / Spectral range Focal Plane Array (FPA) / Spectral range Focal length Focal Plane Array (FPA) / Spectral range Focal Plane Array (FPA)	Imaging and optical data			
Focal length	IR resolution	80×80 pixels	120×160 pixels	
Field of View (FOV)	Focal Plane Array (FPA) / Spectral range	Uncooled microbolometer / 8–14 µm		
Minimum focus distance D.5m Do,5m D.5m D.78mrad D.7	Focal length	9mm	9mm	
Spatial resolution 3.78mrad 2.78mrad 2.78mrad Thermal sensitivity/NETD < 0.1°C @ +30°C (+86°F)/ 100mK SOHz Focus Manual Zoom 1-32x continuous, digital zoom Image presentation Image modes IR image, visual image, picture in picture Picture in Picture IR area on visual image Color palettes Iron/rainbow/grey/grey inverted Measurement Object temperature range Accuracy \$\frac{-20 \to 150°C (-4 \to 302°F)}{0 \to 350°C (32 \to 662°F)}	Field of View (FOV)	17°x17°	19°x 25°	
Thermal sensitivity/NETD	Minimum focus distance	0.5m	0.5m	
Image frequency 50Hz Focus Manual Zoom 1-32x continuous, digital zoom Image presentation Image modes IR image, visual image, picture in picture Picture in Picture IR area on visual image Color palettes Iron/rainbow/grey/grey inverted Measurement Object temperature range Accuracy ±2°C (±3.6°F) or ±2% of reading Measurement analysis Spot Center Spot, Auto hot or cold markers Set-up laser < class2 Language selection English, Chinese, French, German, Spanish Storage of videos/images	Spatial resolution	3.78mrad	2.78mrad	
Manual	Thermal sensitivity/NETD	< 0.1°C @ +30°C (+86°F)/ 100mK	< 0.1°C @ 30°C (86°F) / 100 mK	
1-32x continuous, digital zoom	Image frequency	50Hz		
Image presentation Image modes IR image, visual image, picture in picture 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) Accuracy ±2°C (±3.6°F) or ±2% of reading Measurement analysis Spot Center Spot, Auto hot or cold markers Set-up laser < class2 Language selection English, Chinese, French, German, Spanish Storage of videos/images	Focus	Manual		
IR image, visual image, picture in picture Picture in Picture IR area on visual image Color palettes Iron/rainbow/grey/grey inverted Measurement Object temperature range Accuracy Measurement analysis Spot Center Spot, Auto hot or cold markers Set-up Language selection English, Chinese, French, German, Spanish Storage of videos/images	Zoom	1-32x continuous, digital zoom		
Picture in Picture IR area on visual image Color palettes Iron/rainbow/grey/grey inverted Measurement Object temperature range	Image presentation			
Color palettes Iron/rainbow/grey/grey inverted Measurement Object temperature range Object temperature range -20 to 150°C (-4 to 302°F) 0 to 350°C (32 to 662°F) Accuracy ±2°C (±3.6°F) or ±2% of reading Measurement analysis Spot Center Spot, Auto hot or cold markers Set-up laser < class2 Language selection English, Chinese, French, German, Spanish Storage of videos/images	Image modes	IR image, visual image, picture in picture		
Measurement Object temperature range -20 to 150°C (-4 to 302°F) -20 to 150°C (-4 to 302°F) 0 to 350°C (32 to 662°F) 0°C to 350°C (32 to 662°F) Accuracy ±2°C (±3.6°F) or ±2% of reading Measurement analysis Spot Center Spot, Auto hot or cold markers Set-up laser < class2 Language selection English, Chinese, French, German, Spanish Storage of videos/images	Picture in Picture	IR area on visual image		
Object temperature range -20 to 150°C (-4 to 302°F) -20 to 150°C (-4 to 302°F) 0 to 350°C (32 to 662°F) Accuracy +2°C (±3.6°F) or ±2% of reading Measurement analysis Spot Center Spot, Auto hot or cold markers Set-up laser -20 to 150°C (-4 to 302°F) 0°C to 350°C (32 to 662°F) +2°C (±3.6°F) or ±2% of reading Center Spot, Auto hot or cold markers Set-up laser -20 to 150°C (-4 to 302°F) 0°C to 350°C (32 to 662°F) +2°C (±3.6°F) or ±2% of reading Center Spot, Auto hot or cold markers Set-up laser -20 to 150°C (-4 to 302°F) 0°C to 350°C (32 to 662°F) +2°C (±3.6°F) or ±2% of reading Center Spot, Auto hot or cold markers Set-up laser -20 to 150°C (-4 to 302°F) 0°C to 350°C (32 to 662°F) +2°C (±3.6°F) or ±2% of reading Center Spot, Auto hot or cold markers Set-up laser -20 to 150°C (-4 to 302°F) 0°C to 350°C (32 to 662°F) +2°C (±3.6°F) or ±2% of reading	Color palettes	Iron/rainbow/grey/grey inverted		
Object temperature range 0 to 350°C (32 to 662°F) Accuracy #2°C (±3.6°F) or ±2% of reading Measurement analysis Spot Center Spot, Auto hot or cold markers Set-up laser class2 Language selection English, Chinese, French, German, Spanish	Measurement			
O to 350°C (32 to 662°F) Accuracy #2°C (±3.6°F) or ±2% of reading Measurement analysis Spot Center Spot, Auto hot or cold markers Set-up laser class2 Language selection English, Chinese, French, German, Spanish Storage of videos/images	Object temperature range	-20 to 150°C (-4 to 302°F)	-20 to 150°C (-4 to 302°F)	
Measurement analysis Spot Center Spot, Auto hot or cold markers Set-up laser < class2 Language selection English, Chinese, French, German, Spanish Storage of videos/images		0 to 350°C (32 to 662°F)	0°C to 350°C (32 to 662°F)	
Spot Center Spot, Auto hot or cold markers Set-up laser < class2 Language selection English, Chinese, French, German, Spanish Storage of videos/images	Accuracy	±2°C (±3.6°F) or ±2% of reading		
Set-up laser < class2 Language selection English, Chinese, French, German, Spanish Storage of videos/images	Measurement analysis			
laser < class2 Language selection English, Chinese, French, German, Spanish Storage of videos/images	Spot	Center Spot, Auto hot or cold markers		
Language selection English, Chinese, French, German, Spanish Storage of videos/images	Set-up			
Storage of videos/images	laser	< class2		
Service of the servic	Language selection	English, Chinese, French, German, Spanish		
	Storage of videos/images			
Inside Memory 100M bytes, About 80pictures or one minute video record	Inside Memory	100M bytes, About 80pictures or one minute video record		
Storage media 8Gbytes Micro SD card	Storage media	8Gbytes Micro SD card		
Video storage format Standard MPEG-4, 1280x960@30fps, on memory card > 60 minutes	Video storage format	Standard MPEG-4, 1280x960@30fps, on memory card > 60 minutes		
Image storage format Standard JPEG, including measurement data, on memory card > 6000 pictures	Image storage format	Standard JPEG, including measurement data, on memory card > 6000 pictures		
Digital camera				
Built-in visible light digital camera 5 Megapixels	Built-in visible light digital camera	5 Megapixels		
Built-in digital lens data 59°	Built-in digital lens data	59°		
Data communication interfaces				
Interfaces &Video out USB-mini, audio, HDMI	Interfaces &Video out	USB-mini, audio, HDMI		
USB Data & Live video transform between camera and PC or smartphone	USB	Data & Live video transform between camera and PC or smartphone		
Power system				
Battery / Input voltage Li-ion battery, 4 hours operating time / DC 5V	Battery / Input voltage	Li-ion battery, 4 hours operating time / DC 5V		
Charging system / Power management In camera (AC adapter) / Automatic shutdown	Charging system / Power management	In camera (AC adapter) /Automatic shutdown		