Thermal Imagers Model Selection

Models		UTi80P/120P	UTi120T	UTi85A/120B/165A/ 220B/260B	UTi192M/ 384M	UTi640C
Page		07	07	08	09	09
IR resolution (pixels)		80 x 60/120 x 90	120 x 90	80 x 60/120 x 90/160 x 120/ 200 x 150/256 x 192	192 x 144/ 384 x 288	640 x 480
Field of view (FOV)		51° x 38°	51° x 38°	51° x 38°/51° x 38°/56° x 42°/ 35° x 26°/56° x 42°	37.8° x 28.8°/ 28.4° x 21.5°	24.6° x 18.5°
Thermal sensitivity (NETD)		150mk/60mk	60mk	150mK/60mk/50mk/ 100mk/50mk	50mk/45mk	30mk
Temperature range		-10~400℃	-20~400℃	-10~400℃/-10~400℃/-10~400℃/ -10~400℃/-15~550℃	-20~1500℃ (optional)	-20~150℃/150~800℃ /800~2000℃
Spatial resolution (IFOV)		11mrad/7.3mrad	7.3mrad	11.1mrad/7.3mrad/6.1mrad/ 3.1mrad/3.8mrad	3.45mrad/ 1.29mrad	0.67mrad
Frame rate		9Hz/25Hz	25Hz	9Hz/25Hz/9Hz/9Hz/25Hz	25Hz	25Hz/9Hz
Measurement accuracy		±2℃ or ±2% whichever is greater	±2℃ or ±2% whichever is greater	±2℃ or ±2% whichever is greater	±2℃ or ±2% whichever is greater	±1℃ or ±1% whichever is greater
Palettes		3	6	5/7/5/7/7	8	10
Flashlight			●	●	●	●
Emissivity		0.01-1 Adjustable	0.01-1 Adjustable	0.01-1 Adjustable	0.01-1 Adjustable	0.01-1 Adjustable, 0.98 in default
Focus		Focus free	Focus free	Focus free	Manual focus	Automatic focus
Digital zoom			1-8x continuous		1.1~4x	10x continuous
Display modes	Thermal	●	●	●	●	●
	Visible		●	UTi120B/220B/260B	●	●
	Blending		●	UTi120B/220B/260B	●	●
	PIP			UTi260B	●	●
	MIF					●
Display		2.4" LCD	3.5" LCD	2.8" LCD	4" LCD	5" LCD
Auto capture of Hi/Lo temperature		●	●	●	●	●
WIFI			●		●	●
Bluetooth						●
PC analysis software		●	●	●		●
Rechargeable Li-ion battery		●	●	●	●	●
IP rating			IP54	IP65	IP54	IP54
Certificates		CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS

UTi85/165/220/260 SERIES
Thermal Imagers

NEW

UNI-T thermal imagers can quickly and effectively measure surface temperatures to identify elevated body temperature. These ergonomic devices can also be mounted on a tripod and set in public locations such as airports, train stations, schools, shopping malls, and other high traffic areas. Some models can connect to a PC, display results on a large monitor in real-time, and automatically record data and image when high temperature is detected. These devices are only for early screening, and those with elevated body temperature should seek medical professionals for diagnosis.

● ROI
● Photograph function with SD card storage
● PC software analysis
● Real-time image transmission
● Visual camera (640 x 480) (UTi K series only)
● Type-C USB interface
● 1/4" tripod mounting hole

PC software analysis ● UTi260K

SPECIFICATION	UTi85H+	UTi165K	UTi220K	UTi260K
Certificates	CE, RoHS			
Temperature range	30℃~45℃			
Accuracy	±0.5℃ (@ 25℃ ambient temperature)			
Optimal measuring distance	1m			
Thermal resolution	4800 (80 x 60)	19200 (160 x 120)	30000 (200 x 150)	49152 (256 x 192)
Field of view (FOV)	51°(H) x 38°(V)	56°(H) x 42°(V)	35°(H) x 26°(V)	56°(H) x 42°(V)
Spatial resolution (IFOV)	11.1mrad	6.1mrad	3.1mrad	3.8mrad
Thermal imaging sensitivity	≤150mk	<50mk	<100mk	<60mk
Frame rate	≤9Hz	≤9Hz	≤9Hz	≤25Hz
Buzzer alarm	√		√	
Visual camera/image blending		√	Visual camera	√
Palettes	5	6	7	7
Real-time image transmission	√			
Temperature measurement response time	≤500ms (95% of reading)			
Resolution of visible camera	640 x 480			
Temperature display	Center temperature measurement and high temperature tracking (default)			
Image format	BMP			
Image modes	Thermal camera, visible camera, image blending			
Data communication	Type-C USB			
Auto power off	Selectable (5min, 10min, 30min), 30min auto power off (default)			
Battery life	≥6 hours			
Charging time	≤5 hours			
Charging voltage/current	5V/2A			
Image storage	16G Micro SD card			
GENERAL CHARACTERISTICS				
Power	A single Li-ion 3.6V/5000mAh 26650 battery			
Display	2.8" TFT LCD			
Product net weight	Around 910g			
Product size	236mm x 75.5mm x 86mm			
Standard accessories	Manual, Type-C USB cable, 16GB TF card			
Standard quantity per carton	10pcs			
Standard carton measurement	610mm x 345mm x 305mm			
Standard carton gross weight	10.1kg			