TE-W300 Technical Specification

Items		Specification
		TE-W300
Detector	types	Uncooled focal plane microbolometer
	Pixel	160×120
	Cell spacing	25μm
	Wavelength range	8-14μm
	Sampling frequency	50Hz
	Thermal sensitivity	0.06℃@30℃
Lens	Field of View	25°×19°
	Nearest object distance	10cm
	Focusing method	Manual focus
	Interface method	Bayonet connection
Performance	Spatial resolution	2.72mrad
	Visible light camera	1.3 million pixel CMOS module, built-in 2 LED fill light
	Frame rate	50HZ / 60HZ, optional
	Video output	PAL / NTSC, optional
Image	LCD	3.5 ″ TFT LCD, 640 × 480, color, with touch/non-touch screen
	Color palette	11 color palettes to choose from
	Image display	Infrared image and visible light image can be quickly switched, infrared image and visible light image are fused
	Image adjustment	Auto / manual adjustment of contrast, brightness, auto-enhancement mode
Measurement	Temperature measurement range	+20℃~+50℃
	Temperature measurement accuracy	±0.6℃

	Temperature calibration	Auto (short time, long time, custom time) / manual
	Measurement mode	Full screen maximum temperature tracking, temperature alarm (sound, color)
	Emissivity correction	Adjustable from 0.01 to 1.0 (in increments of 0.01) or select from a list of predefined materials
	Background temperature correction	automatic
	Atmospheric transmittance correction	Automatic, based on entered distance, ambient humidity and ambient temperature
	Setting function	Date / time, temperature unit ℃ / ℉ / K, language, contrast / brightness, LCD backlight
storage	Memory card	8G Micro SD（TF）card， Max. 32G
	Storage method	Manual / automatic storage;
	Thermal image format	JPEG format with raw infrared measurement data
	Voice note	JPEG format, H.264 format, including fusion
	Text comment	60 seconds (save with image)
	File Directory	Local selection and upload
Power supply	Battery type	Li-on battery， rechargeable
	Operation time	Continuous working for more than 4 hours (LCD brightness 50%, when LED lighting is off)
	Charging	Smart charger or random (AC power adapter or 12V car power supply)
	Charging duration	Random charging for 1.5 hours greater than 50% capacity
	Energy saving mode	Auto sleep、auto shut down
Interface	Memory card slot	Micro SD (TF) card holder
	Power interface	Yes (DC12V)
	Video output	Have
Others	microphone	Built-in
	buzzer	Built-in

	Handrail	Can be installed on both sides
	lens cap	Have
	Sunshade	Yes, optional
Environment parameters	Working temp.	0℃~+40℃
	Storage temp.	-40℃~+70℃
	Humidity	≤95%（Non-condensing）
	Protection grade	IP54
	Shock resistance	25G，IEC68-2-29
	Vibration resistance	2G，IEC68-2-6
	Drop	2m
Physical characteristics	Dimension	105x230x245mm
	Weight	980g