Technical Specification for Dual Light Handheld

Infrared Thermograph

:: Detector pixels (resolution)	-	≥640×480
Camera	-	Standard lens (25º±2º)
Response wavelength	μm	7.5-14
Spatial resolution	mrad	<0.70
:: Thermal sensitivity (noise equivalent temperature difference, NETD, means the NETD test value at ambient temperature of 23 ±5,50 mm focal length, relative aperture of 1)	℃ K (or)	≤0.1
Frame frequency	Hz	≥25(non-intercalation method)
Manual focusing function	-	Available
Auto-focus function	-	Available
Digital Zoom (Maximum Digital Zoom Multiple)	Times	≥8
Lens adaptation (replaceable long-focus or wide-angle lenses and automatic recognition)	-	Meeting requirements
Lower limit of temperature range		-20
Maximum temperature range		+350
:: Accuracy of temperature measurement (below 100)(absolute)		≤2
:: Accuracy of temperature measurement (100 and above)(absolute)	%	≤2
Characteristic temperature range	-	The accuracy of the characteristic temperature range does not exceed ±2 /2% reading, take the absolute value of the large
Continuous and stable working time (standard blackbody set to 50 , maximum temperature measurement error of thermal imager working continuously for 3 hours)(absolute value)	℃	≤2
Temperature consistency (0~100)(absolute value)		≤2
Temperature measurement method	-	Manual/automatic, can set several movable points, areas, in the area can set the highest temperature, lowest temperature, isotherm,

		temperature difference, with sound alarm and color alarm, while automatically tracking the highest/lowest temperature points
Image storage	-	Image can be stored in the instrument and transmitted to the memory card
Image Display	-	Image Digital Processing DDE Display Technology
Built-in viewfinder	-	High resolution color viewfinder, pixel ≥800×480
External display	-	Outside ≥5" LCD LCD screen, angle adjustable. pixels not less than 1024×768
Menu Control	-	Chinese interface, calibration test temperature based on input distance, atmospheric temperature and relative humidity
Atmospheric Penetration Correction	-	Calibration of test temperature based on input distance, atmospheric temperature and relative humidity
Optical Penetration Correction	-	Continuous automatic calibration of temperature drift and gain (including temperature changes in the instrument itself) around the detector based on built-in temperature sensors
Radiate correction	-	0.01-1.0 Adjustable (0.01 step)
Environmental Temperature Correction Function	-	Available
Calibration of Temperature Measurement Distance	-	Available
Built-in digital camera	-	≥3 megapixel, auto-focus, built-in target light
Laser indicator	-	With a safety laser, night-time indication of target
Data Transfer Interface	-	Support USB,wifi or HDMI video output
Infrared image data format (standard JPEG format)	-	Meeting requirements
Visible Document Format	-	Standard JPEG format, automatically associated with / identifiable with corresponding infrared images
Protection level	-	IP54
Speech annotation	-	Voice annotation, stored with images
Text comments	-	Can select default text and store with image
Alarm function (sound or color alarm for set temperature value / above / below / automatically)	-	Available
Total weight	kg	<2(including batteries)
Memory card	-	≥64 G Memory or memory card with wifi function

Battery	-	rechargeable lithium battery, single battery continuous working time ≥3 hours, battery is built-in type.
Additional lens	-	Long focus lens (12°±2º), wide angle lens (46°±2º)
Tripod	-	Carbon fiber or aluminum alloy, maximum foot pipe diameter not less than 25 mm, three flexible
Electromagnetic compatibility (ESD immunity, according to GB/T 18268.1-2010 6.2, meet 6.4 requirements)	-	Compliance requirements
Electromagnetic compatibility (RF electromagnetic radiation immunity, according to GB/T 18268.1-2010 6.2, meet the requirements of 6.4)	-	Compliance requirements
Electromagnetic compatibility (power frequency magnetic field immunity, according to GB/T 18268.1-2010 6.2, meet the requirements of 6.4)	-	Compliance requirements
Environmental adaptability (high temperature test, ambient temperature :+50 ℃, electrified)	-	Compliance requirements
Environmental adaptability (low temperature test, ambient temperature :-20 ℃, electrified)	-	Compliance requirements
Environmental adaptability (damp-heat test, ambient temperature :+40 ℃, relative humidity :90, electrified)	-	Compliance requirements
Environmental adaptability (impact test, impact value 300 m/s2, pulse duration 11 ms, half sine Δv 2.1m/s, not electrified)	-	Compliance requirements
Environmental adaptability (vibration test, sine :10 Hz~55 Hz~10 Hz, displacement amplitude is 0.15 mm, no electricity)	-	Compliance requirements
Environmental adaptability (drop test, free fall, harsh grade :1000 mm, no power (off-line tools), normal function)	-	Compliance requirements