PRODUCT INTRODUCTION -MOBILE PHONE TYPE H42E3

Brand-new UI design, graphical interface, point-to-measure, 5.5-inch, ultra-high resolution touch screen operation, proprietary "Protherma"l temperature measurement mode, free setting of temperature warning value, ergonomic design, 500g whole machine is extremely portable, multi-point, line, and regional temperature measurement, one-click acquisition of on-site detection data.

H42E3 PRODUCT IMAGE

PRODUCT FEATURES

Automatic upload to the cloud

Wifi/4g automatically upload to the cloud

Resolution

256x192 high resolution Infrared thermal imaging

Laser distance

Tof millimeter-level laser ranging, automatic temperature and distance compensation

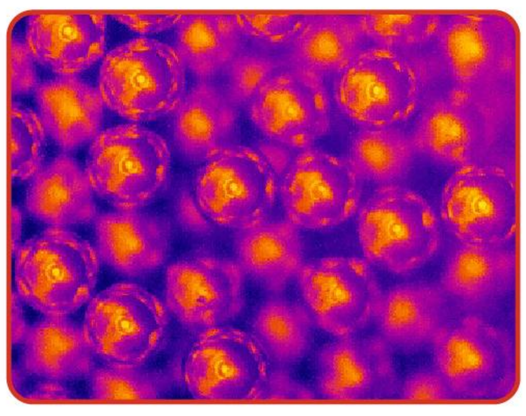
Real-time detection distance

Real-time detection of target distance and standardization of safe operation

High definition visible light

On-site led fill light, 15 million pixel high-definition visible light

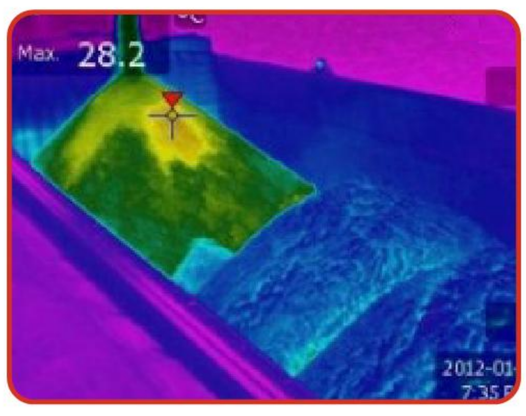
APPLICATION SCENARIOS



Higher education research

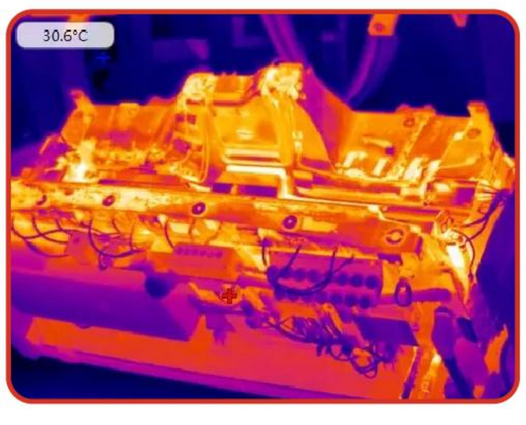
Power operation and inspection

Petroleum and petrochemical



Floor heating system

Construction industry



Equipment maintenance

Laser welding

Security inspection

It is suitable for higher education and scientific research, power operation and inspection, petroleum and petrochemical, coal mining and metallurgy, construction industry, property inspection, insurance survey, rail transportation, traditional, large machinery, high-tech, laser, die-casting and other manufacturing industries.

TECHNICAL PARAMETER

Mobile phone type（H42E3）	
Advantage parameters	
Infrared detector resolution	256×192
Super pixel sr function	Enhanced to 512×384 Pixel
Thermal sensitivity(netd)	NETD<0.05℃@25℃
Frame rate	25Hz
Wave length range	7.5um~14μm
Visible light pixels	15 megapixels
Detection distance	⩾0.1m
Focusing method	Fixed focal length (no focus adjustment)
Display	Resolution： 1440×720,5.5 inch touch operation
Auto fusion dual spectrum Automatic fusion	Infrared and visible light dual spectrums are automatically fused, no manual adjustment is required; self-adjusting superposition transparency,Visible light temperature measurement
Prothermal professional Thermal imaging mode	All infrared images can be turned on with professional prothermal Thermal imaging mode, which can be displayed in real-time color in The thermal image, the color thermal image of the target area is di-Splayed more clearly by touching/adjustingthe barother areas are Displayed in black and white thermal imaging or transparent to Highlight the temperature details of key areas
Wireless WiFi data fast transmission	Support one-click wireless (4g/5g/wifi) upload of test data, auto-Matic search of pc software, no need repeatedly plug and unplug The data cable and sd card
Professional PC analysis software	Professional infrared analysis software, manages massive test data, automatically generates and outputs trend reports of historical te-mperature data, eliminates the need to manually record report da-ta, and displays histograms, 3D views and other tools simultaneou-sly,Temperature data in various forms can be exported, continuous temperature data can be exported
Professional laser distance measurement	Millimeter level, measuring range 1.5m, accuracy ±1mm, realtime detection distance, prompt safety detection
Positioning system	Support beidou/gps/glonass satellite and wifi/bluetooth positi-Oning, position information can be saved in the image
Smart detection assistant	Customized scene templates, support scanning QR codes and nam-ing.Support Al voice dictation naming (network connection), supp-ort keyboard input naming
Customized temperature range mode	The temperature width (upper and lower limits) can be adjusted manually, and the temperature width is automatically determined according to the format temperature.
Protection level	IP54 safety protection, 2 meters drop resistance
Temperature trend tracking	This machine customizes the detection specifications and automa-tically tracks the temperature trend of the detection target,Intelligi-ent fault warning
Temperature measurement analysis	
Temperature measure-ment range	-20°C~+600°C
Temperature measure-ment	accuracy ±2 ℃ or±2% of reading (@25℃, take the maximum value)
Temperature measure-ment method	High and low temperature capture and positioning, center point te-mperature measurement, movable point temperature measureme-nt, line temperature measurement, regional temperature measure-ment, to achieveMovable 9-point temperature measurement, line t-emperature measurement, and regional temperature measurement
Native analysis	The analysis software can edit, analyze, and save image/video data, add/delete temperature measurement points, lines, and areas, modify temperature measurement settings (full-width/area emissivity, ambie-nt/reflected temperature, alarm temperature), phase temperature diff-erence settings (turn on/off phase temperature difference, customize/ select referencetemperature), and the software can be remotely main-tained and upgraded
Emissivity correction	Supports custom settings and calls to the built-in material emissivity table to achieve full-scale emissivity and regional emissivity correction. The emissivity is 0.01~1.00, 0.01 step
Color palette	12 options available (including iron red, rainbow, white hot and black hot, etc.)
Temperature compensation	With emission temperature compensation, ambient temperature compensation, ambient humidity compensation, distance-temperature compensation, transmittance correction
Phase temperature difference analysis	Automatically calculate the interphase temperature difference of elec-trical equipment in realtime and provide a basis for judgment
Early warning method	Sound warning, color warning, global warning, zone warning, detection safety distance warning
Data storage and analysis	
Data interface	USB-C(wired),4G/5G/Wifi/Bluetooth (wireless)
Data collection	QR code recognition, one-click wireless (4G/5G/Wifi) upload to the server or cloud
Data format	Image: JPG/PNG format, one-click storage of pure infrared image, pure visible light image and dual spectrum automatic fusion images Video: set the recording duration as you like; Full radiometric thermal image video in PNG format (video with temperature data), video in MP4 format.
Analysis software	The computer analysis software is provided, which has the capabilities of professional infrared image, video analysis and test data managem-ent. It has its own database to manage massive test data, automatical-ly track temperature trends and generate test reports.
Image analysis	The image is a fully radiometric image with data of temperature points of equal pixels. The computer terminal can freely realize high and low point capture and positioning, center point temperature measurement, movable point temperature measurement, line temperature measure-ment, and regional temperature measurement. It can also realize mov-able multi-point temperature measurement, line temperature measure-ment, and regional temperature measurement (unlimited quantity), and automatically draw a three dimensional temperature field image.
Video analysis	The video is a full radiometric video with data of temperature points of equal pixels. It can be played back and the temperature curves of diffe-rent detection targets can be drawn
Work report	Record data analysis and statistics, generate work reports, no need to manually record work reports
Storage space	64GB,can be expanded to 256GB
Remote real-time control	Connect to PC or mobile terminal via USB-C (wired)/wireless (4G/5G/ WIFI) interface to view full-radiation thermal imaging video stream in real time, and connect to professional analysis software for remote operation and control
General indicators	
Battery and battery life	4800mAh Large capacity lithium battery, long battery life⩾4h
Operating temperature	-10°C~50°C(14°F~122F)
Storage temperature	-20°C~50°C(-4F~122F)
Size (W×H×D)	171mmx72mmx36mm(including lens)
Host weight	300g