PRODUCT OVERVIEW

——MOBILE PHONE MODEL H43E13

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, multi-point, line, and regional temperature measurement, and one click acquisition of on-site detection data.

H43E13 Product Image

PRODUCT FEATURES

Automatic upload to the cloud

WIFI/4G automatically upload to the cloud

Ultimate portability

Ergonomic design, 500G complete machine, extremely portable

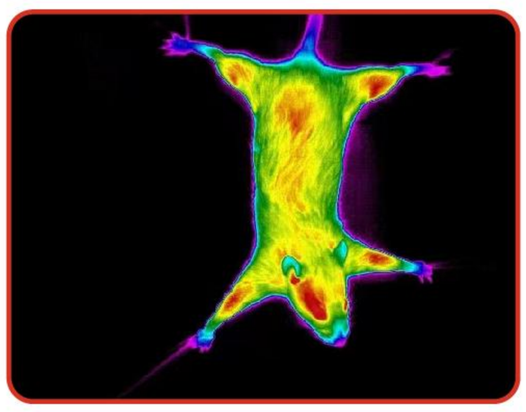
Laser Distance Measurement

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

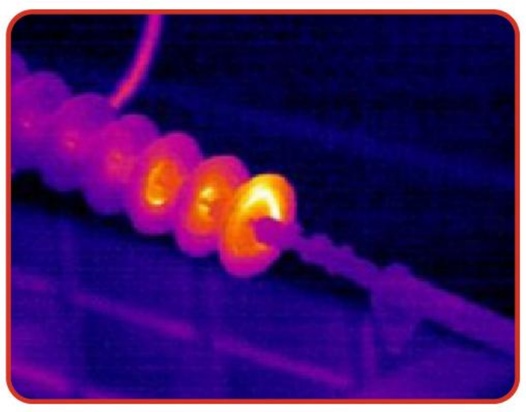
Real-time detection distance

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

APPLICATION SCENARIOS

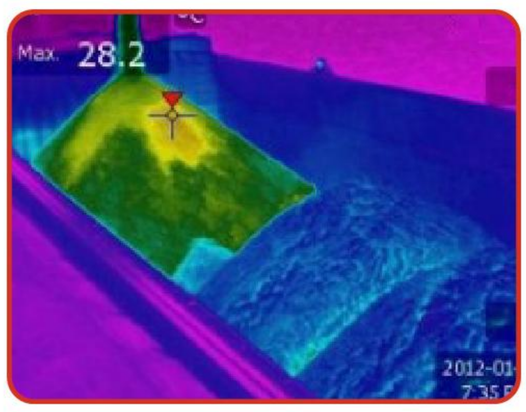


Higher education research

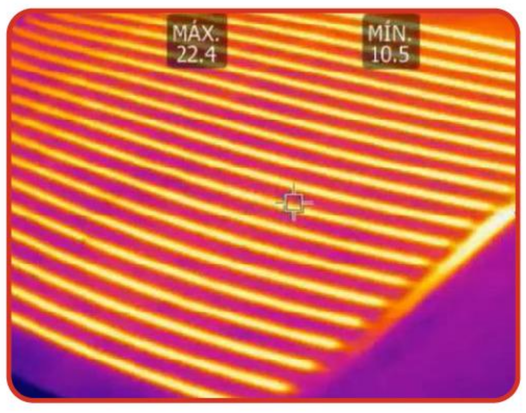


Power operation and inspection

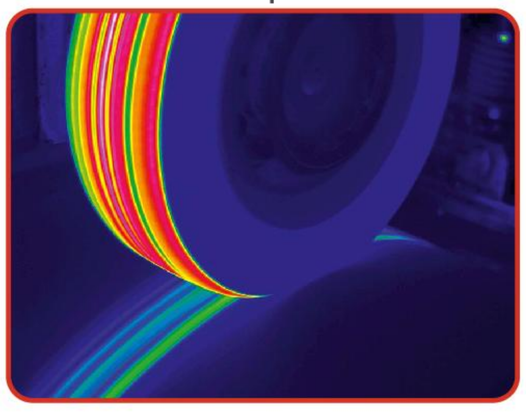
Petroleum and petrochemical



Coal Mining and Metallurgy

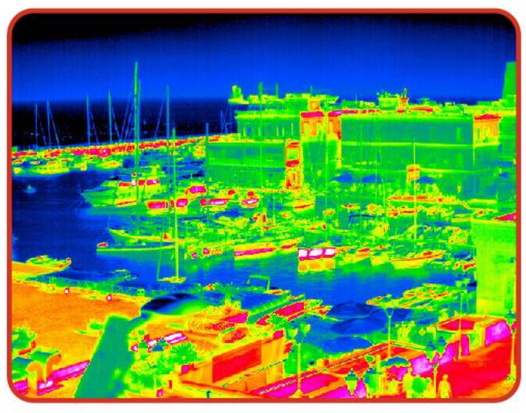


Glass heating wire



Rail Transit

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 PARAMETERS

Smart phone type（H43E13)

Advantage parameters	
Infrared detector resolution	384×288
Super Pixel SR Function	Enhanced to 768×576 pixels
Thermal sensitivity(NETD)	NETD<0.05°C@25°C
Frame rate	25Hz
Wavelength range	7.5μm~14μm
Visible light pix els	15 megapixels
Detection distance	⩾0.1m
Focus mode	Manual focus
Display	Resolution: 1440×720, 5.5-inch touch screen
AutoFusion Dual spectrum	Infrared and visible light dual spectrums are automatically integrated, without manual adjustment; self-adjusting superposition transparency to achieve visible light temperature measurement
ProThermal Professional thermal imaging mode	All infrared images can open the professional ProThermal thermal imaging mode, which can show the color thermal imaging of the target area more clearly in the real-time color thermal image screen through the touch/ adjustment bar, and other areas are displayed in black and white thermal imaging or transparent to highlight the temperature details of the key parts.
Wireless Wifi data fast transmission	Support one-click wireless (4G/5G/WIFI) upload of test data,automatic search of PC software, no need to repeatedly plug and unplug data cables and SD cards
Professional PC analysis software	Standard configuration Professional analysis: Professional infrared analys is software, manages massive test data, automatically generates and outputs trend reports of historical temperature data, and does not require manual recording. Report data histograms, 3D views and ot her tools simultaneously display temperature data in various forms an d can be exported. Continuous temperature data can be exported
Professional laser distance measurement	Millimeter level, measuring range 1.5m, accuracy ±1mm, real-time detection distance, prompt safety detection
Positioning system	Supports Beidou/GPS/GLONASS satellite and WIFI/Bluetooth positioning, and location information can be saved in the image
Smart Detection Assistant	Customized scene templates, support for scanning QR codes to name, support for AI voice dictation naming (network connection), support for 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, automatically tracks the temperature trend of the detection target, and provides intelligent fault warning
Temperature measurement analysis	
Temperature measurement range	-20°C~550°C(extendable to 650°C)
Temperature measurement accuracy	±2°C or ±2% of reading (maximum value @25°C)
Temperature measurement method	High and low temperature capture and positioning, center point temperature measurement, movable point temperature measurement, line temperature measurement, regional temperature measurement, realizing movable 9-point temperature measurement, line temperature measurement, regional temperature measurement
Native analysis	This analysis software can edit, analyze, and save image/video data, add/ delete temperature measurement points, lines, and areas, modify temperature measurement settings (full/area emissivity,ambient/reflected temperature, alarm temperature), phase temperature difference settings (open/ close phase temperature difference, customize/select reference temperature), and the software can be remotely maintained 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 electrical equipment in real time to 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 images, pure visible light images and dual-spectrum automatic fusion Image video: arbitrarily set the recording time; PNG format full radiation thermal image video (video with temperature data), MP4 format video
Analysis software	Delivered with PC-side analysis software, with professional infrared image, video analysis and test data management capabilities, built-in database, manage massive test data, automatically track temperature trends, and generate test reports
Image analysis	The image is a full radiation image with temperature point data of equal p-ixels. The computer terminal can freely realize high and low point capture and positioning, center point temperature measurement, movable point temperature measurement, line temperature measurement, and regional temperature measurement. It can realize movable multi-point temperature measurement, line temperature measurement, and regional temperature measurement (unlimited number) and automatically draw three dimensio-nal temperature field images.
Video Analysis	The video is a full radiometric video with temperature point data of equal pixels. It can be played back and the temperature curves of different dete-ction targets can be drawn.
Work Report	Record data analysis and statistics, generate work reports, no need to man
Storage Space	64GB, expandable 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 industry analysis software for remote operation and control
General indicators	
Battery and battery life	9000mAh large-capacity lithium battery, external DC charging, battery life >8 hours
Operating temperature	-10°C~50°C(14°F~122F)
Storage temperature	-20°C~50°C(-4F~122F)
Dimensions(W×H×D)	171mm×80mm×77mm (including lens)
Host weight	About0.5kg