



Selection Guide---handheld Series

# Infrared Thermography Product Brochure

## PRODUCT INTRODUCTION --- HDK42E3

Pocket-sized handheld temperature measurement products, equipped with 256X192 infrared detector, which can provide clearer infrared images and higher temperature measurement accuracy. 8 megapixel visible light camera module, which supports thermal imaging and visible light video photo taking and recording functions, together with the powerful and professional cell phone APP and computer software, to provide more professional infrared thermal imaging services for every engineer.



HDK42E3 PRODUCT DIAGRAM

## PRODUCT FEATURES



### Digital zoom

The value can be doubled from 1.X to 4.X



### Expansion lens

Support for extended macro lenses engineer.



### Secondary Analysis

Support mobile APP and computer software real-time view and secondary view



### Photography and video

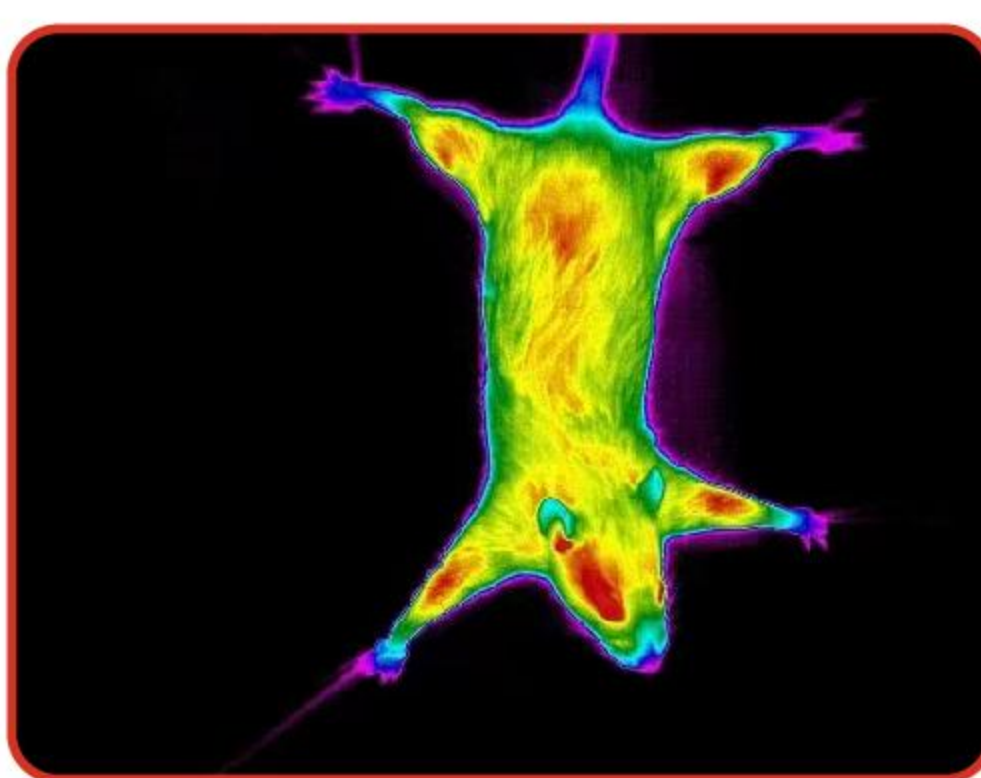
Supports video photo taking and recording



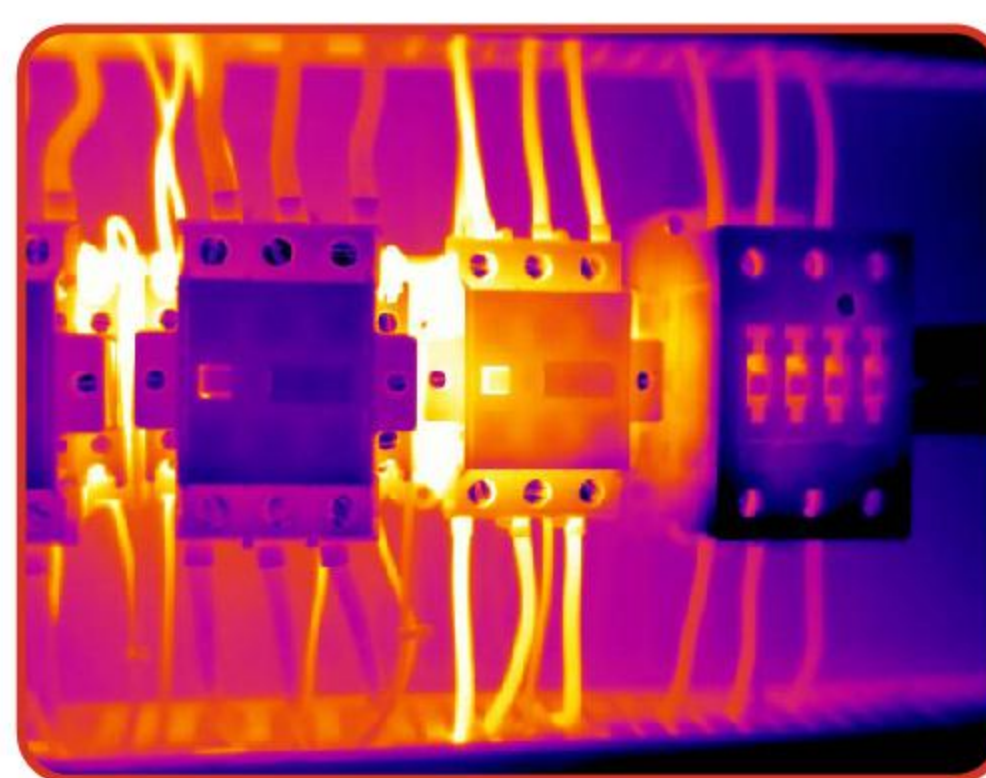
### Measuring Range

Temperature measurement range -20°C-400°C

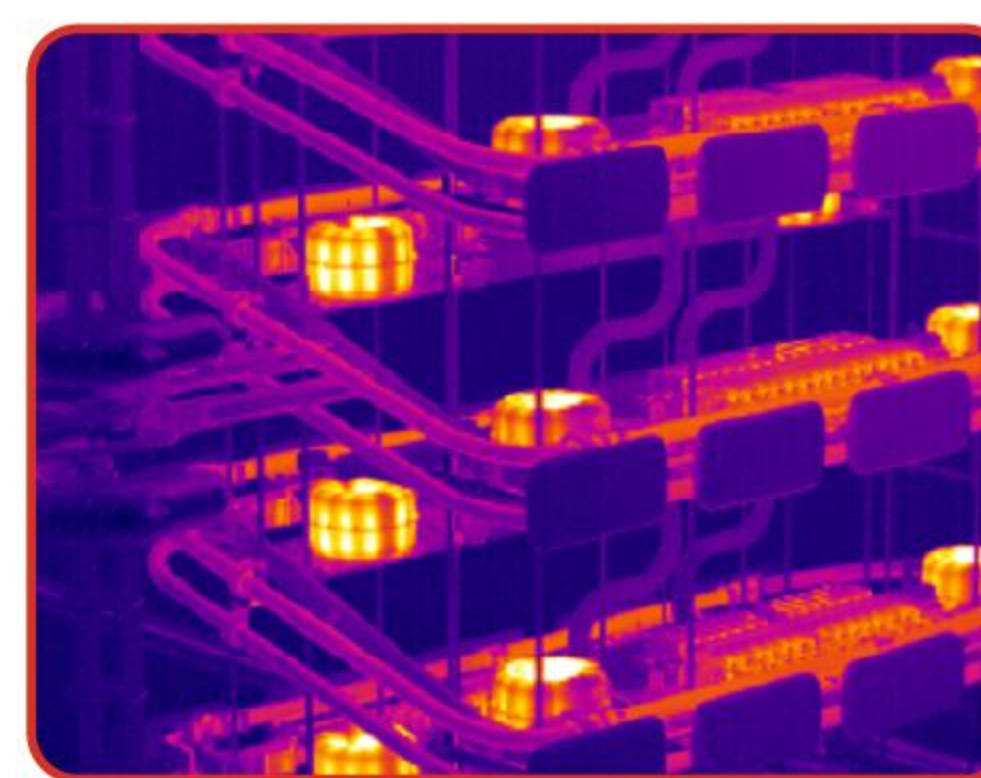
## APPLICATION SCENARIOS



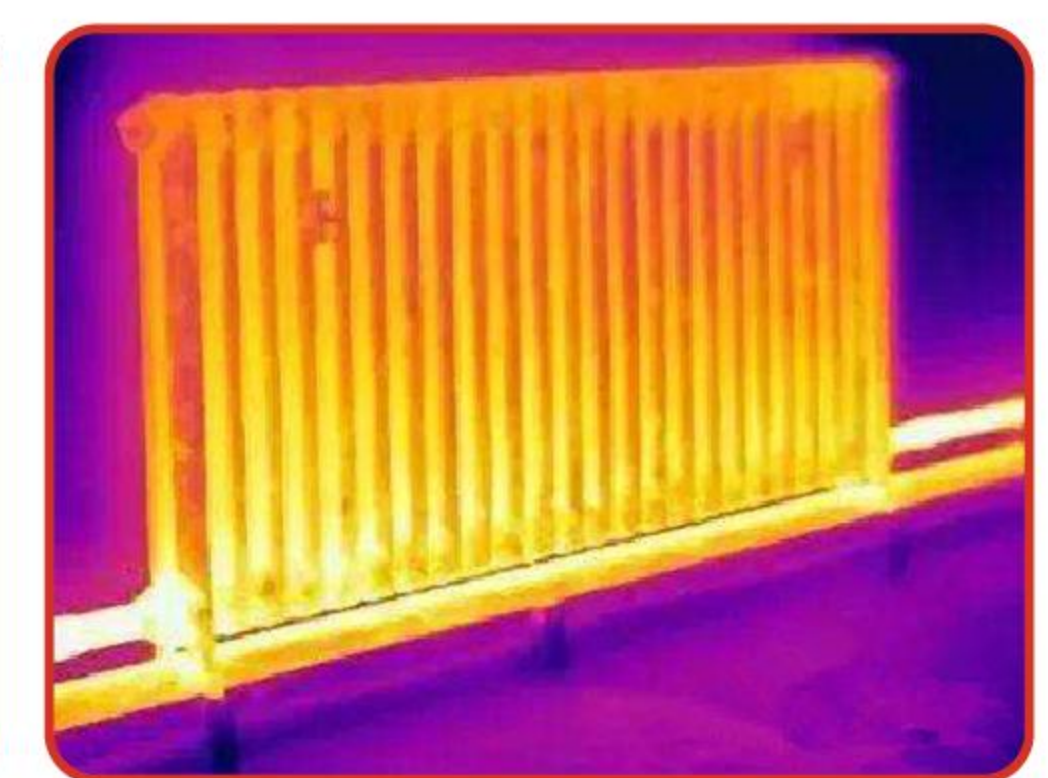
Higher education research



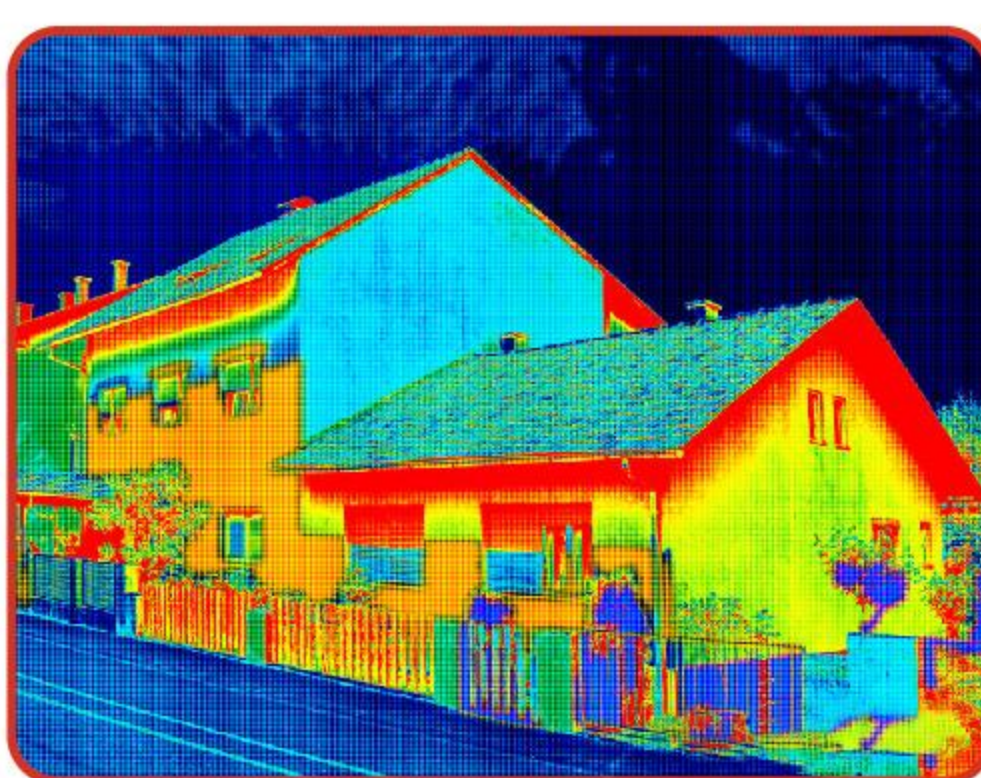
Electric power inspection



Petroleum and petrochemical



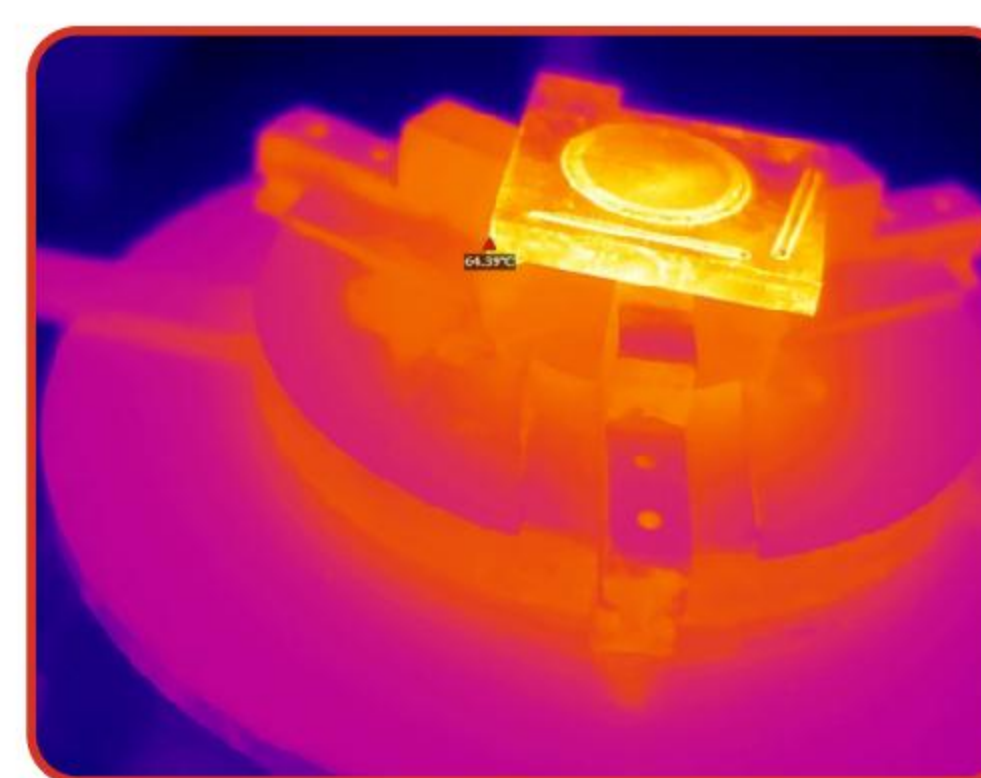
Floor heating system



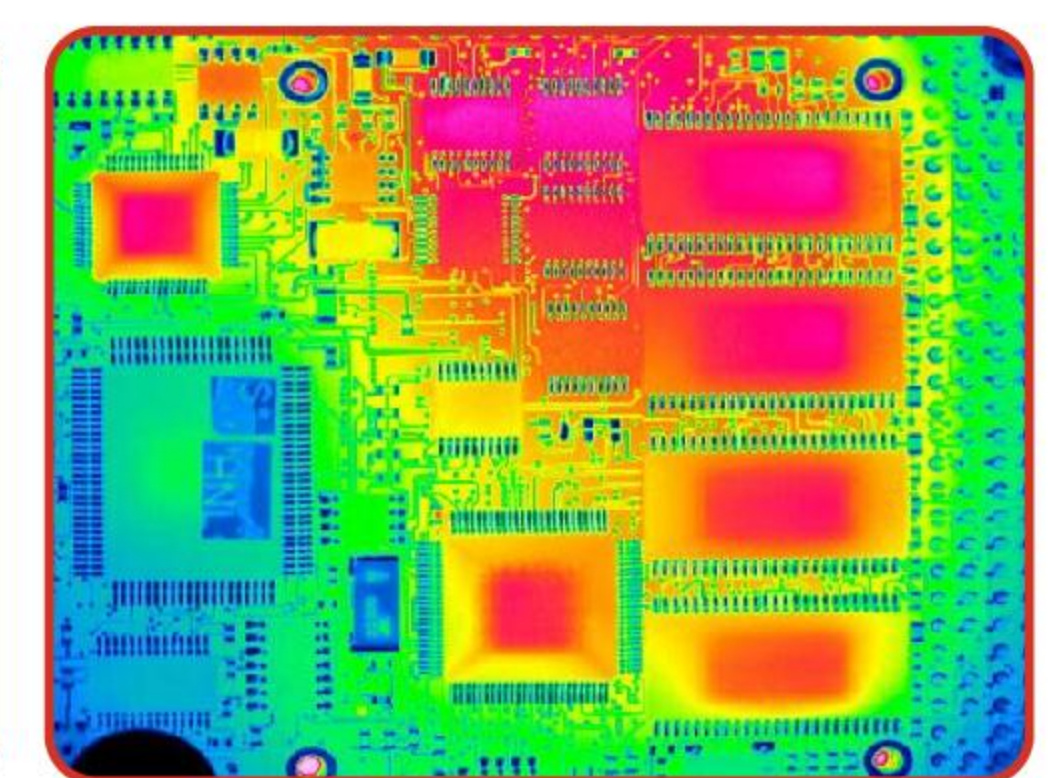
Building industry



Metro



Laser bonding



Circuit board

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

# TECHNICAL PARAMETER

Pocket Machine (HDK42E3)	
Thermal Imager	
Sensor Type	Uncooled Detector
Response Wavelength	7.5~14μm
NETD (Noise - Equivalent Temperature Difference)	<50mk (@25°C, F#=1.0)
Maximum Image Size	256×192
Thermal Imaging Lens Focal Length	3.5mm
Minimum Imaging Distance	0.3m
Field of View (FOV)	50°×37.5°
Digital Zoom	1X~4X, minimum change0.1X
Frame Rate	25Hz
Pixel Size	12μm
F - Value	F1.1
Temperature Measurement Range	-20°C~400°C
Precision	±2°C or ±2%, take the maximum value
Spatial Resolution(IFOV)	3.43mrad
Visible Light	
Maximum Image Size	3264×2448
Picture Resolution	1600x1200
Video Resolution	1600x1200
Image Display	
Display	3.5"LCDcapacitive touch screen640×480
Image Modes	Supports 7 false - color modes such as rainbow, iron - red, etc.
Display Modes	Visible light, thermal imaging, dual - light fusion, picture - in - picture
System Functions	
Temperature Measurement Rules	Supports hot spot, cold spot, center point
UVC Projection	Supported
Battery Capacity	2100mAh
Charging Time	1.5 hours to charge to 94% power, 2.5 hours to fully charge
Bluetooth	Supported
Photography	Thermal imaging, visible light, dual - light fusion, picture - in - picture
Video Recording	Thermal imaging, visible light, dual - light fusion, picture - in - picture
Illumination	Supported
Text Annotation	Supported
Interface Language	Chinese
Wi-Fi	Supported
Storage	16GB
Hardware Interface	TYPE-C
Battery Type	Lithium - ion battery
Battery Working Time	4h
System Functions	
Tripod Mounting	Supported, standard UNC1/4" -20 Hole position
Electromagnetic Compatibility(Emc)	GB/T17799.2, GB17799.3-2012
Shock/Vibration	15g (GB/T2423.5-2019/IEC60068-2-27:2008) 1g (GB/T2423.10-2008/IEC60068-2-6:1995)
Operating Temperature And Humidity	-10°C~50°C, ≤95%
Ingress Protection	IP54
Drop Resistance Rating	2m
Weight	218g
Size	138.5mm×85.2mm×23.6mm
Data Storage	
Number of image files	About 60,000 sheets
Image file format	JPEG
Video storage capacity	54 hours
Video file format	MP4