iTest 上海锐测

Version：V1.2

IRS180

Acoustic Infrared 2-in-1 Camera

- 128个MEMS microphones
- 384*288 infrared camera
- Locating defects in electrical equipment (electrical, vibration, leakage, infrared)
- One-handed operation for flexibility
- Integrated design for portability and flexibility of use
- 8 megapixel HD camera clearly shows defects
- Testing frequencies from 2kHz-65kHz
- Testing range from 0.3 m-100 m

Why acoustic and infrared inspection are required?

The handheld acoustic camera uses microphone array beamforming technology to acquire sound source distribution data and a high definition camera to capture video footage in real time. It can also be extended with infrared module to compare acoustic imaging with infrared iamges for rapid identification of potential partial discharge faults.

Acoustic Parameters	
Acoustic Measurement	128 low-noise MEMS microphones
F.O.V.	70°
Dynamic Range	＞120dB
Bandwith	2kHz-65kHz, Adjustable
Frame Rate	25FPS
Measuring Distance	0.3 m-130 m
Functions	Power Grid Mechanical Vibration Gas Leakage
Infrared Parameters	
Pixel	384*288
F.O.V.	13° *10°
Focal Length	19mm
Physical & Battery Data	
Dimensions	350mm×196mm×106mm
Weight	1.3kg
Capacity	6700mAH@7.2V
Duration	4 hour
Charging	USB Type-C interface, USB PD protocol
Power	Max. power 20W
Environment Parameter	
Working Condition	-10℃-+50℃, 10%-95% non-condensing
Storage Temperature	-20℃-40℃
Charging Temperature	10℃-45℃

User Interface	
Screen	Size: 7"、1024×600; Color: 24 bit RGB; Brightness: 1000cd/m² Backlight: four adjustable levels
Input	Touch Screen
Frame Rate	1640×1234 VIDEO
Video Frame Rate	25 FPS
Image Frame Rate	30 FPS
Communication & Storage	
External Storage	64GB SD card
Internal Storage	8GB Emergency Storage Only
Data Storage Format	.jpg .mp4
Camera	
F.O.V.	70°
Focal Length	3.04mm (fixed)
Pixel	8 million
Battery	
Capacity	6700mAh@7.2V Li-ion batteries
Duration	External power supply: ＞12 hours
Protocol	USB Type-C interface, USB PD protocol
Power Consumption	Max. power consumption≤20W Max. power for single charge≥16W

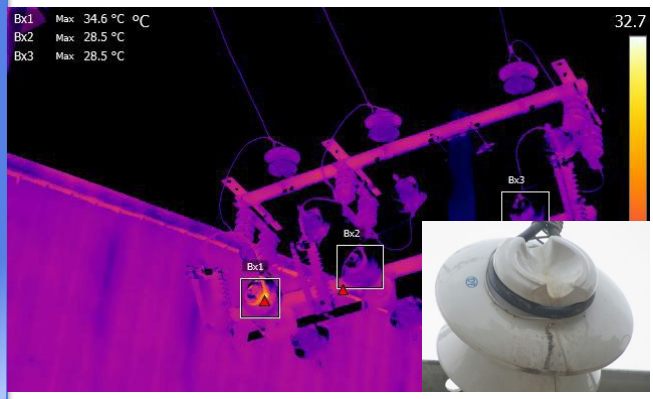
Tel: + 86-21-6590 2995 E-mail: info@infratest.com.cn Website: en.soundw.com.cn
Address: A13, South Area, Building 8, No. 619 Longchang Road,
Yangpu District, Shanghai, China 200082

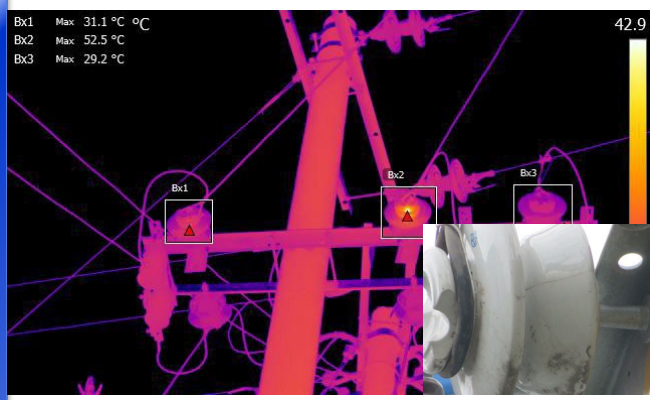
iTest
上海锐测

Version：V1.2

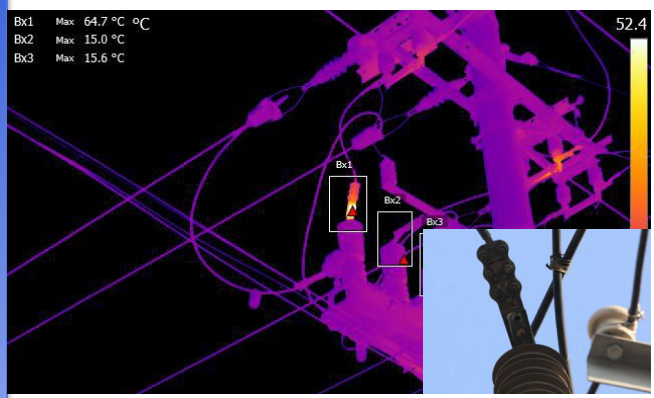
IRS180 On-site Examples

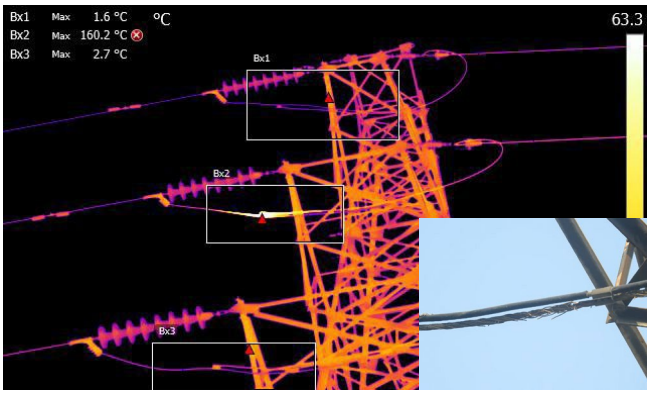
Partial Discharge and Heat Coexistence Examples



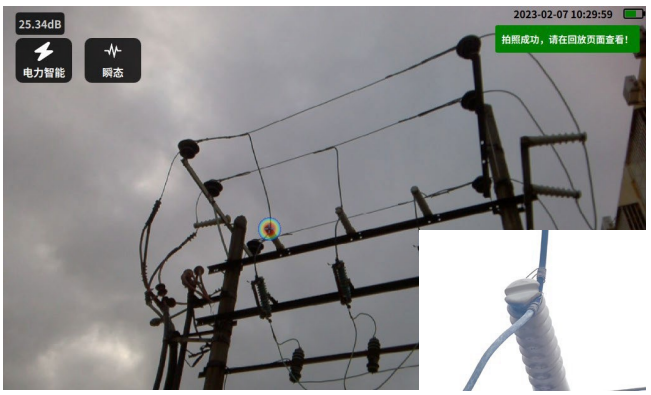


Heat Examples





Partial Discharge Examples



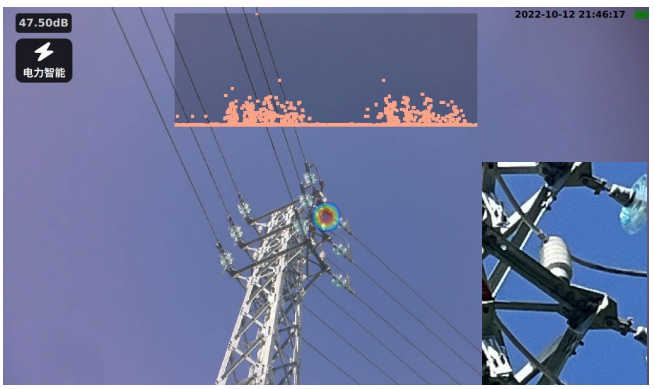
Tel: + 86-21-6590 2995 E-mail: info@infratest.com.cn Website: en.soundw.com.cn
Address: A13, South Area, Building 8, No. 619 Longchang Road,
Yangpu District, Shanghai, China 200082

iTest
上海锐测

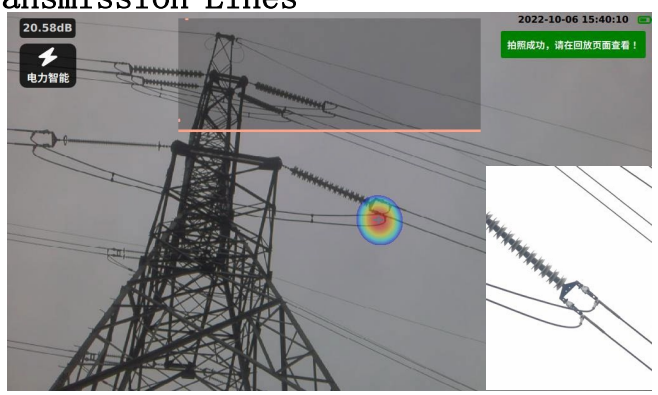
Version：V1.2

IRS180 On-site Examples

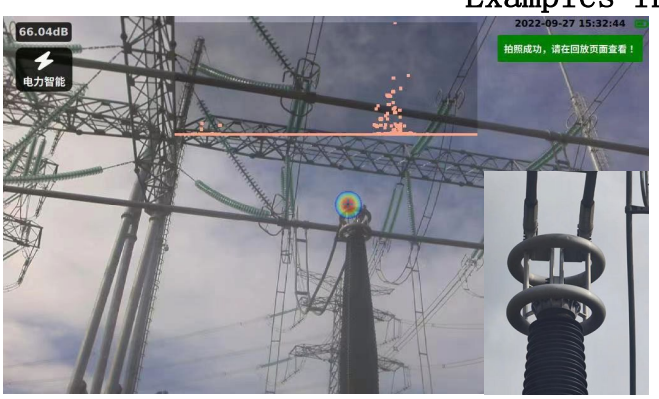
Examples in Distribution Lines



Examples in Transmission Lines



Examples in Substations



Tel: + 86-21-6590 2995 E-mail: info@infratest.com.cn Website: en.soundw.com.cn
Address: A13, South Area, Building 8, No. 619 Longchang Road,
Yangpu District, Shanghai, China 200082