

Keysight TrueIR Thermal Imager

See MORE with your Keysight Technologies, Inc. U5855A TrueIR thermal imager

Get four times more details with Fine Resolution capability – 320 x 240 pixels from detector resolution of 160 x 120 pixels. And with the 4x digital zoom capability, it can magnify the thermal image of a far-away object to quickly spot problems and reveal even finer details. Now you are able to carry out more in-camera measurements and analysis with the in-camera monitoring capability for quality or diagnostic checks with its 0.07 °C sensitivity.



1. Flash light
2. Laser pointer
3. Visible image camera
4. Infrared (IR) image camera lens (with shutter)
5. Focus adjustment ring
6. Camera trigger key
7. DC power inlet
8. Video out port
9. USB mini-B port
10. SD memory card slot
11. Adjustable hand strap (for right-handed or left-handed use)
12. Quick access buttons
13. Large 3.5" color LCD display

Features

- Four times more pixels with Fine Resolution capability
- View finer object details with 4x digital zoom
- Quick access buttons to easily change settings or functions
- Long product warranty – 3 years
- Ergonomically designed with evenly distributed weight
- In-camera monitoring for temperature trending
- Ability to focus on objects, as close as 10 cm away



Predictive maintenance on electrical systems



Predictive maintenance on electromechanical systems

Key specifications

Basic performance	
Temperature measurement range	-20 ~ 350 °C
Thermal sensitivity	0.07 °C (at 30 °C)
Accuracy ¹	± 2 °C or ± 2%
Detector type	Uncooled focal plane array (a-Si)
Resolution	Detector Resolution: 160 x 120 pixels Fine Resolution: 320 x 240 pixels
Field of view (FOV)	28° (H) x 21° (V)
Spatial resolution (IFOV)	2.1 mrad (with Fine Resolution mode ON)
Focal distance	10 cm to infinity
Focus mechanism	Manual focus
Image processing and enhancement	
Image enhancement/correction	Emissivity, reflected temperature, object distance, ambient temperature, humidity, transmissivity, averaging
Digital zoom	4x
Color palette	Rainbow, iris, hot iron, gray, inverted gray
Image fusion	Picture in picture, blend
Measurements and alarm	
Measurements	Center spot, 3x moveable spots, max/min tracking, delta temperature, 3x moveable boxes (with min/max/avg)
Color alarm	High/low temperature in all areas Alarm zones: Above/below/inside/outside
Image logging	Logs IR, visible or fusion images at a defined interval (7 to 3600 seconds)
General specification	
Battery	Li-Ion rechargeable battery, 7.4 VDC, 2500 mAh
Display	3.5" TFT
Visible camera	3.1 MP
Built-in LED torch/Laser pointer	Available/Class 2
Drop test	2 m
IP rating	IP 54
Dimensions (W x H x D)	95 x 250 x 85 mm
Weight	0.746 kg (with battery)
Warranty	3 years for product 3 months for standard accessories otherwise specified
Calibration cycle	1 year
Language	English, French, German, Italian, Japanese, Korean, Portuguese, Russian, Spanish, Simplified Chinese, Traditional Chinese

1. After a 1-hour warm up with calibration at 25 °C.

Recommended accessories



U5751A
Power adapter (with power cord)



U5752A
Rechargeable Li-Ion battery



U5753A
External battery charger (2-bay)



U5761A
Video RCA to RCA interface cable, 2 m



U5762A
USB standard-A to mini type-B interface cable, 1 m



U5771A
Rugged carrying case, hard



U5772A
Hand strap, adjustable for right-handed and left-handed use

Recommended software



TrueIR Analysis and Reporting Tool

Downloadable from
www.keysight.com/find/TrueIR_ART

Standard shipped accessories

- Power adapter with power cord
- Rechargeable Li-Ion battery
- SD memory card
- Video RCA to RCA interface cable, 2 m
- USB standard-A to mini type-B interface cable, 1 m
- Hand strap
- Rugged carrying case, hard
- Quick start guide
- Certification of calibration



For more information go to
www.keysight.com/find/trueIRImager



Three-Year Warranty
www.keysight.com/find/ThreeYearWarranty

Keysight's commitment to superior product quality and lower total cost of ownership. The only test and measurement company with three-year warranty standard on all instruments, worldwide.



Keysight Assurance Plans
www.keysight.com/find/AssurancePlans

Up to five years of protection and no budgetary surprises to ensure your instruments are operating to specification so you can rely on accurate measurements.