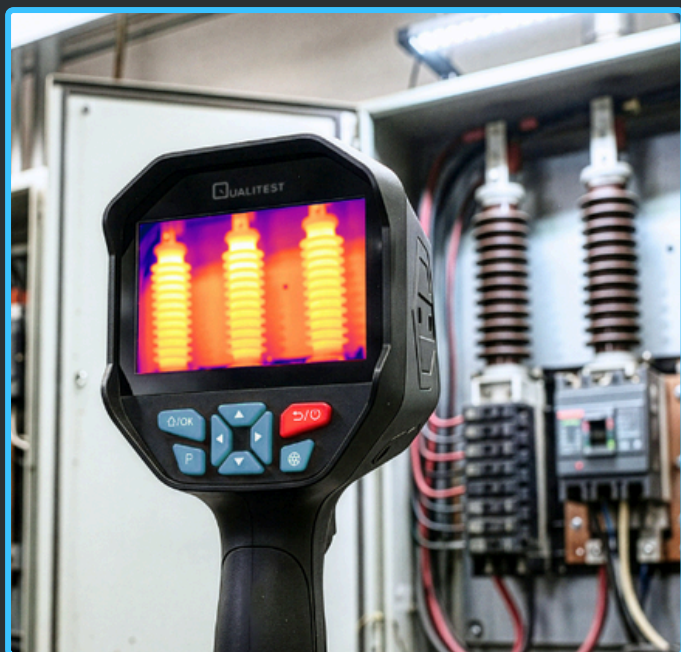


NEWSLETTER

September, 2026



See What the Eye Can't: Thermal Cameras from Field to Bench

September 2026 – A breaker panel can look completely normal while one lug runs significantly hotter than its neighbors. Heat is often the earliest warning of a developing fault—and thermal imaging makes that invisible difference visible before equipment is touched.

But field inspection and detailed bench analysis require different instruments. Handheld thermal cameras prioritize portability, wide-area inspection, and field diagnostics, while benchtop analyzers provide the resolution, magnification, and repeatability needed for electronics repair and materials analysis.

Qualitest covers both applications: **QualiTC™ handheld cameras** for electrical, industrial, and electronics inspection, and **QualiTCA™ benchtop analyzers** for micron-scale thermal analysis at the repair bench and materials lab.

Product Highlight

Field Thermal Imaging Cameras

The QualiTC™ line – rugged handheld cameras for inspection out in the plant, on the pole, and around the building envelope.



Feature / Advantages

- **Enhanced Thermal Imaging:** TisoView image processing with super-resolution and detail enhancement, paired with an 8–14 μm LWIR sensor and $\pm 2^\circ\text{C}$ or $\pm 2\%$ accuracy (whichever is greater).
- **Flexible Measurement Tools:** Multiple measurement modes including full-screen hotspot, cold spot, center point, and regional analysis.
- **Imaging and Display Options:** 8 selectable color palettes—Iron Red, White Hot, Black Hot, Rainbow, Red Hot, High Contrast, Green Hot/Arctic, and Lava—with multiple image fusion modes on supported models.
- **Data and Analysis:** USB Type-C charging and data transfer, 8 GB+ built-in storage with microSD expansion on professional models, and included PC analysis software.
- **Multilingual Interface:** Support for 11 languages.
- **Built for Field Use:** Operating range of -10°C to 60°C , storage range of -40°C to 85°C , with approximately 4–5 hours (battery life varies by model).

Note: QualiTC™ 10 is the only model without a visible-light camera and therefore does not support the fusion modes—outline fusion, overlay fusion, and picture-in-picture—available on the other seven models.

Qualitest USA

Toll-Free: 1.877.884.TEST (8378) | Fax: 954.697.8211
E-mail: info@qualitest-inc.com

Corporate Address: 8201 Peters Rd., #1000,
Plantation, FL 33324, USA.



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QualiTrivia

A thermal camera measures **infrared energy** –not temperature directly–and calculates temperature using emissivity. Shiny metals can have very low emissivity, causing polished aluminum or copper to appear much cooler than it actually is.

That is why **higher-tier QualiTCA analyzers** offer **adjustable emissivity settings from 0.1 to 1.0**, and why technicians often use matte tape or flat paint on reflective surfaces before measurement.



Which Thermal Camera Fits Your Work?

Model	IR Resolution	Thermal Sensitivity (NETD)	Temp Range	Screen	Visible Camera	Standout Feature	Best For
QualiTC™ 10	120×90	60 mK	-20°C to 550°C	2.8"	None (thermal only)	Lightest, simplest entry point	Quick spot-checks, budget-conscious teams
QualiTC™ 15	120×90	60 mK	-20°C to 550°C	2.8"	720P	Dual camera + fusion at entry price	General electrical/HVAC techs needing visual context
QualiTC™ 17	256×192	50 mK	-20°C to 550°C	2.8"	720P	More than 4x the thermal pixel count of the QualiTC™ 15, 5m distance compensation	Fine detail on small or distant targets
QualiTC™ 20	256×192	50 mK	-20°C to 550°C	3.5"	720P	Largest screen in the mid-tier lineup	Extended field review sessions
QualiTC™ 23	220×160	70 mK	-20°C to 450°C	3.5"	640×480	WiFi transfer + TIFF export	Fast wireless reporting
QualiTC™ 25	320×240	70 mK	-20°C to 450°C	3.5"	640×480	Sharpest WiFi model + IP54	Rugged everyday field use
QualiTC™ 38	384×288	45 mK	-20°C to 1200°C	4.3" touch	8MP	Laser rangefinder, GPS/4G, optional gas sensor	Utility, petrochemical, and firefighting crews
QualiTC™ 64	640×480	45 mK	-20°C to 1200°C	4.3" touch	8MP	Highest resolution + IP54 + laser point measurement	Highest-detail industrial inspection, harsh environments

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Thermal Camera Analyzers

The QualiTCA™ line – Stand-mounted and benchtop thermal camera analyzers for circuit board repair, materials testing, and IC-level failure analysis. From fast hot-spot detection and leakage troubleshooting to high-resolution thermal imaging and long-duration research, the QualiTCA™ series provides flexible solutions for electronics laboratories, repair benches, and materials research applications.

Thermal Camera Analyzer for PCB

QualiTCA™ 25A

Foldable, stand-mounted analyzer for one-click PCB leakage and short-circuit location.

Feature/Advantages:

- **One-Click Leakage Location:** Narrows a fault to a specific component or trace on a powered board using its hottest points.
- **Hands-Free Stand Design:** Holds the camera fixed over the board, freeing both hands for soldering or probing.
- **Detachable Macro Lens:** Shortens the working distance to 30 mm for a close look at a single component.
- **3D Thermal Field + Double-Board Comparison:** Renders board temperature as a height map and sets a known-good board beside a suspect one.



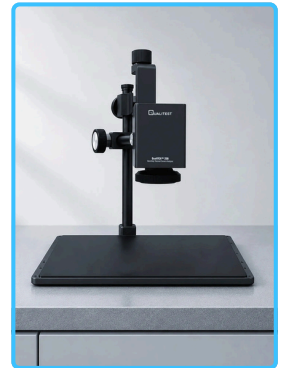
Benchtop Thermal Camera Analyzer

QualiTCA™ 25B

Benchtop analyzer that adds materials and heating-element analysis to full PCB diagnostics.

Feature/Advantages:

- **Every 25A Function, Plus Materials Analysis:** Retains one-click leakage detection and adds thermal-conductivity and heating-element testing.
- **Adjustable Emissivity (0.1–1.0):** Corrects readings for the surface under test instead of assuming a single material.
- **20 mm to 1000 mm Focal Range:** Covers close component inspection and a wider board view on a multi-axial bracket.
- **Radiometric Recording + EXCEL Export:** Saves a full-temperature thermogram with every image and turns curves and isotherms into report data.



Thermal Camera Analyzer (Advanced)

QualiTCA™ 38

Precision 384×288 analyzer for IC-level failure analysis and fine material R&D

Feature/Advantages:

- **Macro Lens to 25 Microns:** Resolves an individual IC pin or bond wire that a lower-resolution camera would blur.
- **Power-Meter Integration:** Plots voltage, current, and temperature on one timeline to match a power spike to the moment a part heats.
- **Separate-Area Emissivity:** Corrects each region of a frame independently for different materials in the same view.
- **Full Radiometric dyv Video:** Preserves temperature data for every frame so a reading can be pulled from any point after the test.



Thermal Camera Analyzer (RnD)

QualiTCA™ 64

Research-grade thermal analyzer with 640 × 512 resolution for high-detail, long-duration analysis.

Feature/Advantages:

- **640 × 512 Thermal Resolution:** Captures fine thermal detail in small or densely packed components.
- **24-Hour Continuous Monitoring:** Supports unattended reliability and long-duration testing.
- **External Sensor Integration:** Correlates temperature with voltage, current, and ambient-temperature data.
- **Wide -20°C to 550°C Range:** Covers ambient studies through high-temperature component analysis.

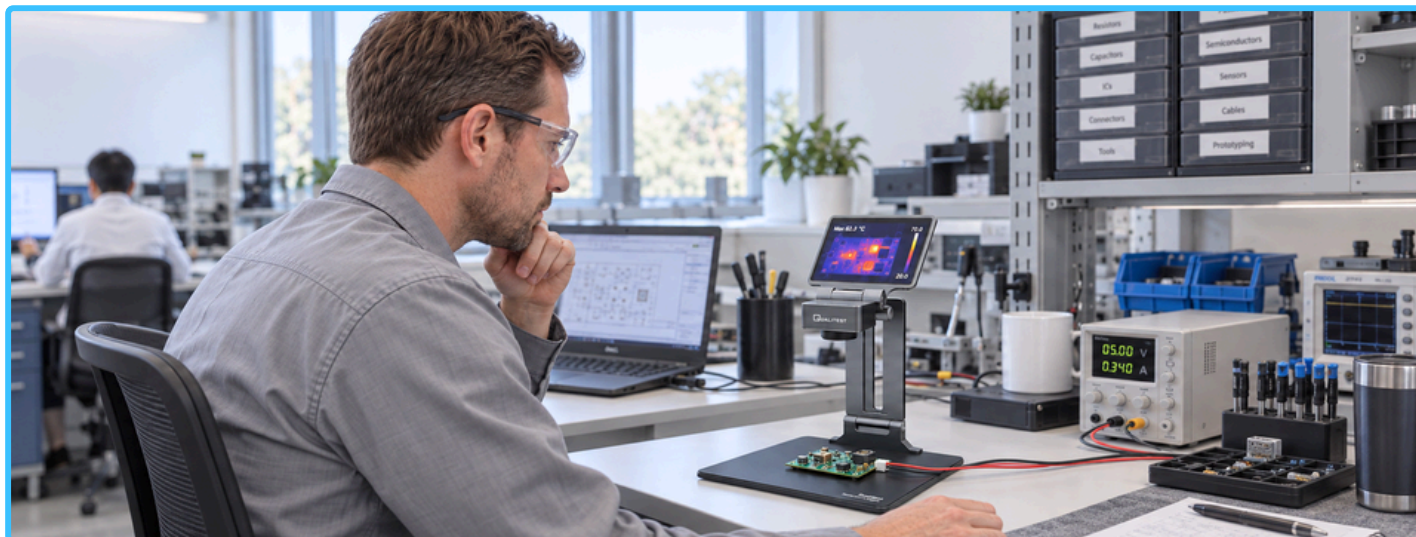


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Which Benchtop Thermal Camera Fits Your Work?

Best For	Model	Why This Is the Best Fit
Fast PCB leakage and short-circuit location at the bench.	QualiTCA™ 25A	Foldable, hands-free stand with one-click detection, 3D thermal field analysis, and double-board comparison.
Circuit board repair plus materials and heating-element analysis.	QualiTCA™ 25B	Adds adjustable emissivity, a 20–1000 mm focal range, and EXCEL data export on top of every 25A function.
IC-level failure analysis and fine material R&D.	QualiTCA™ 38	384×288 with a macro lens to 25 microns and power-meter integration for correlated voltage, current, and temperature.



Why Choose Qualitest

Full Range, One Supplier: Field cameras and benchtop analyzers come from a single partner, so a field crew and a repair bench source from the same catalog and support line.

Analysis Built In: Every camera and analyzer ships with dedicated PC software for offline review, temperature analysis, and reporting – not just a live image.

Match the Tool to the Job: Our team helps you weigh resolution, temperature range, and connectivity against your actual work, so you avoid both over- and under-buying.

Service, Support, and Financing: Responsive technical support, calibration service, and flexible finance packages, all backed by Qualitest North America.

Ready to Find the Right Thermal Imaging Solution?

From a 1200°C substation scan to a 25-micron look at a failing IC, the Qualitest thermal range covers field inspection and bench analysis alike. Explore the full lineup: worldoftest.com/product/thermal-cameras

To match the right camera or analyzer to your work, contact our team: sales@qualitest-inc.com

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