

QUAKELOGIC

PROFESSIONAL THERMAL
INSPECTION CAMERA



QL-ThermaVision Pro

QL-THERMAVISION PRO

PROFESSIONAL THERMAL INSPECTION CAMERA



DISCOVER PROFESSIONAL THERMAL INSPECTION IN A PORTABLE DESIGN

QuakeLogic's QL-ThermaVision Pro Professional Thermal Inspection Camera is a high-performance thermal imaging system designed to deliver accurate temperature measurement for industrial inspections, predictive maintenance, electrical diagnostics, mechanical troubleshooting, and research applications. Featuring a high-resolution infrared detector, advanced thermal analysis, intelligent autofocus, radiometric imaging, and wireless connectivity, the QL-ThermaVision Pro provides a reliable and efficient solution for professional thermal inspections.

- Improves inspection efficiency by providing high-resolution thermal imaging, real-time temperature analysis, and instant measurement results.
- Reduces maintenance costs by detecting potential faults early and minimizing unplanned equipment downtime.
- Enhances operational safety by enabling non-contact inspections without interrupting equipment operation or exposing personnel to hazardous conditions.
- Supports comprehensive thermal analysis through radiometric imaging, interchangeable lenses, professional reporting tools, and integrated wireless connectivity.

WHAT'S INCLUDED »

- QL-ThermaVision Pro Professional Thermal Inspection Camera
- Two Rechargeable Lithium-Ion Batteries
- Desktop Charger & Power Adapter
- SD Memory Card
- USB Type-C, Ethernet & Micro HDMI Cables
- USB-C to Ethernet Adapter
- Rugged Carrying Case
- Wrist & Shoulder Straps
- Professional Thermal Analysis Software
- Factory Calibration Certificate
- Quick Start Guide & Warranty Card

KEY FEATURES

- High-resolution 1024 × 768 infrared detector delivers detailed thermal images for accurate inspection and fault detection.
- Super Resolution technology enhances image resolution up to 2048 × 1536 for improved analysis of small targets.
- Intelligent autofocus with manual, touch, and continuous focus modes provides fast, accurate imaging in changing inspection environments.
- Supports radiometric image and video recording with embedded temperature data for detailed post-inspection analysis.
- Measures temperatures from -40°C to 800°C, with an optional high-temperature configuration up to 2500°C.
- Provides comprehensive thermal analysis with spot, line, and area measurements, including automatic maximum, minimum, and average temperature tracking.
- Multiple inspection modes including Infrared, Visible, Fusion, and Picture-in-Picture improve fault identification and reporting.
- Professional color palettes and automatic image optimization enhance thermal visibility under various operating conditions.
- Integrated Wi-Fi, Bluetooth 5.0, GPS, and optional 5G connectivity support wireless communication and efficient data management.
- Professional thermal analysis software enables reporting, image management, and cloud-enabled remote analysis.
- AI-enhanced image processing and advanced thermal analysis technologies improve inspection efficiency and simplify data organization.

PRODUCT FEATURES

Inspection Modes

Infrared
Visible
Fusion
Picture-in-Picture (PIP)

Temperature Measurement

-40°C to 150°C
0°C to 800°C
Optional High-Temperature Range up to 2500°C

Thermal Analysis

Spot Measurement
Line Measurement
Area Measurement
Automatic Max/Min/Average Tracking
Isotherm Analysis

Interchangeable Lens Options

Wide-Angle Lens
Medium Telephoto Lens
Telephoto Lens
Macro Lens
High-Temperature Lens
TwinView Dual-FOV Lens

Connectivity

Wi-Fi
Bluetooth 5.0
GPS
Optional 5G Module
USB Type-C
Micro HDMI
USB-C to Ethernet Adapter

Applications

Predictive Maintenance
Electrical Inspection
Mechanical Diagnostics
Building Inspection
Industrial Maintenance
Research & Development

For more information about the QL-ThermaVision Pro Professional Thermal Inspection Camera, please contact QuakeLogic.

INSPECTION FEATURES

Type	Description
Image Modes	Infrared, Visible, Fusion, Picture-in-Picture (PIP)
Focus Modes	Manual, Automatic, Touch Autofocus, Continuous Autofocus
Temperature Ranges	-40°C to 150°C, 0°C to 800°C, Optional up to 2500°C
Thermal Analysis	Spot, Line, Area Measurements, Max/Min/Average Tracking, Isotherm Analysis
Lens Options	Standard, Wide-Angle, Medium Telephoto, Telephoto, Macro, High-Temperature
Image Optimization	Automatic, Semi-Automatic, Manual, Local Dimming
Connectivity	Wi-Fi, Bluetooth 5.0, GPS, Optional 5G
Storage	64 GB Internal Storage, SD Card up to 256 GB
Recording	Radiometric JPEG, Radiometric Video, MP4 Video with Audio
Interfaces	USB Type-C, DC Input, Micro HDMI, SD Card Slot

MEASUREMENT CAPABILITIES

Type	Description
Temperature Range	-40°C to 150°C
	0°C to 800°C
Optional Range	Up to 2500°C
Measurement Accuracy	±1°C or ±1% of Reading
Thermal Sensitivity (NETD)	≤15 mK
Simultaneous Analysis	Up to 35 Spot, Line & Area Measurements
Temperature Tracking	Automatic Maximum, Minimum & Average
Compensation Functions	Emissivity, Reflected Temperature, Distance, Humidity & Atmospheric Compensation

MEASUREMENT SETTINGS

Type	Description
Emissivity	Adjustable Emissivity
Reflected Temperature	Adjustable Reflected Temperature
Target Distance	Adjustable Target Distance
Relative Humidity	Adjustable Humidity Compensation
Atmospheric Transmittance	Adjustable Atmospheric Compensation
Optical Transmittance	Adjustable Optical Compensation
Temperature Alarm	Programmable Visual, Audible, Color & Flash Alarm
Color Palette	Multiple Professional Color Palettes
Image Optimization	Automatic, Semi-Automatic, Manual & Local Dimming
Focus Mode	Manual, Automatic, Touch Autofocus & Continuous Autofocus

CAMERA & IMAGING SETTINGS

Type	Description
Display Modes	Infrared, Visible, Fusion & Picture-in-Picture (PIP)
Image Optimization	Automatic, Semi-Automatic, Manual & Local Dimming
Digital Zoom	Adjustable 1x to 50x
Focus Settings	Manual, Automatic, Touch Autofocus & Continuous Autofocus
Color Palettes	Multiple Professional Color Palettes
Image Storage	Radiometric JPEG with Embedded Temperature Data
Video Recording	Radiometric Video Recording
Standard Recording	MP4 Video with Synchronized Audio

ANALYSIS & REPORTING

Type	Description
Temperature Analysis	Spot, Line & Area Measurements
Maximum, Minimum & Average Temperature Detection	Supported
Isotherm Analysis	Supported
Temperature Alarm	Programmable Visual, Audible, Color & Flash Alarm
Radiometric Imaging	Radiometric JPEG with Embedded Temperature Data
Radiometric Video	Supported
Standard Video Recording	MP4 Recording with Synchronized Audio
Voice Annotation	Built-in Microphone & Speaker
Professional Reporting	Thermal Analysis Software Included
Cloud Support	Cloud-Enabled Image Synchronization & Remote Analysis
AI Functions	AI-Enhanced Image Processing & Advanced Thermal Analysis

OPTIONAL FEATURES & ACCESSORIES

INTERCHANGEABLE LENS OPTIONS

Expand the inspection capabilities of the QL-ThermaVision Pro with optional interchangeable lenses. Wide-angle, medium telephoto, telephoto, TwinView Dual-FOV, macro, and high-temperature lenses provide greater flexibility for close-range inspections, long-distance monitoring, specialized applications, and high-temperature measurements up to 2500°C.

PROFESSIONAL THERMAL ANALYSIS SOFTWARE

The included professional software provides radiometric image analysis, temperature measurement, report generation, cloud-enabled image synchronization, and remote inspection support for comprehensive thermal diagnostics and documentation.

OPTIONAL 5G COMMUNICATION MODULE

The optional 5G communication module enables remote data transmission and cloud connectivity for field inspections. Combined with Wi-Fi, Bluetooth 5.0, and GPS, it allows efficient image synchronization, remote analysis, and inspection data management from virtually any location.

STANDARD ACCESSORIES

The system includes two rechargeable lithium-ion batteries, desktop charger, power adapter, SD card, USB Type-C cable, USB-C to Ethernet adapter, Ethernet cable, Micro HDMI cable, rugged carrying case, wrist strap, shoulder strap, factory calibration certificate, quick start guide, and warranty card, providing everything required for immediate field operation.

TECHNICAL SPECIFICATIONS

Specification	Description
Product	QL-ThermaVision Pro Professional Thermal Inspection Camera
Infrared Detector	Uncooled VOx Microbolometer
Infrared Resolution	1024 × 768 Pixels
Super Resolution	Up to 2048 × 1536 Pixels
Pixel Pitch	12 μm
Spectral Range	7.5–14 μm
Thermal Sensitivity (NETD)	≤15 mK
Frame Rate	50 Hz
Display	5.5" Full HD Capacitive Touchscreen LCD
Electronic Viewfinder	1920 × 1080 OLED
Visible Camera	Up to 16 MP
Digital Zoom	1×–50×
Focus Modes	Manual, Automatic, Touch & Continuous Autofocus
Standard Field of View	25° × 20°
Distance-to-Spot Ratio	2326:1
Minimum Focus Distance	0.3 m
Laser Pointer	Integrated Laser Pointer
Laser Distance Measurement	Supported
AI Functions	AI-Enhanced Image Processing & Advanced Thermal Analysis
Voice Annotation	Built-in Microphone, Speaker & Voice Playback

SYSTEM SPECIFICATIONS

Specification	Description
Temperature Range	-40°C to 150°C / 0°C to 800°C (Optional up to 2500°C)
Measurement Accuracy	±1°C or ±1% of Reading
Storage	64 GB Internal + SD Card up to 256 GB
Image Format	Radiometric JPEG
Video Recording	Radiometric Video & MP4 with Audio
Connectivity	Wi-Fi, Bluetooth 5.0, USB Type-C, Micro HDMI
Positioning	Integrated GPS
Optional Communication	5G Module
Battery	Rechargeable Lithium-Ion
Operating Time	≥4 Hours
Charging Time	Approx. 1 Hour (90%)
Operating Temperature	-20°C to +50°C
Storage Temperature	-40°C to +70°C
Protection Rating	IP54
Dimensions	191 × 171 × 118 mm
Weight	≤1.8 kg (Including Battery & Standard Lens)
Software	Professional Thermal Analysis Software
AI Functions	AI-Enhanced Image Processing & Advanced Thermal Analysis

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About QuakeLogic:

- QuakeLogic Inc. is a California-based engineering and technology company providing innovative, reliable, and high-quality solutions to customers worldwide.

Our Commitment

- At QuakeLogic, we are committed to quality, innovation, and customer satisfaction. We build lasting partnerships by delivering reliable solutions and dependable support.

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