



FJD Trion P2 Vision+

Act Faster with 3D Thermal Insight



Detect in Thermal. Locate in 3D.

Stop guessing where a thermal image was taken. With FJD Trion P2 Vision+, thermal, visual, and spatial data are captured together in one walkthrough, so every anomaly is linked to its real location for faster follow-up and clearer reporting.



RGB-Thermal Linkage



One-Click Reports



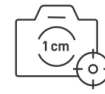
3D Thermal Data



Up to $\pm 2^\circ\text{C}$ Temperature Accuracy



-20°C to 150°C Temperature Range



Up to 1 cm Relative Accuracy



Thermal Imaging Module

Detect hidden anomalies and capture thermal snapshots with high sensitivity.



3D LiDAR

Capture the full site and anchor every thermal finding to its real-world location.



Visible Light Cameras

Record visible images and realistic site views for easier review and clearer reference.



Handheld Battery

Keep inspection tasks uninterrupted with a dual-battery design and up to 4 hours of runtime.

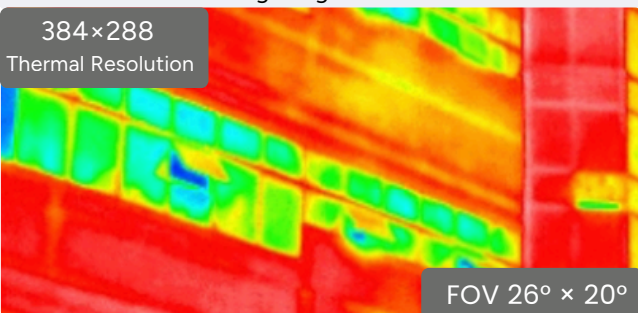
Adapted to Every Inspection Need

Whether capturing wide-area views or close-up details, P2 Vision+ gives you the right scanning power for every job.

FJD Trion P2 Vision+

Reliable thermal inspection for everyday and long-range use.

384×288
Thermal Resolution

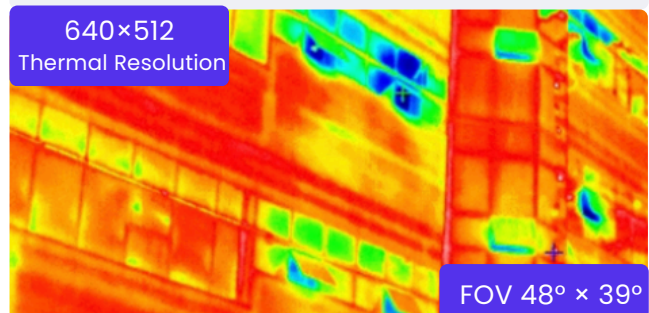


FOV $26^\circ \times 20^\circ$

FJD Trion P2 Vision+ Max

Higher-clarity, wider-coverage inspection for detail-critical tasks with greater efficiency.

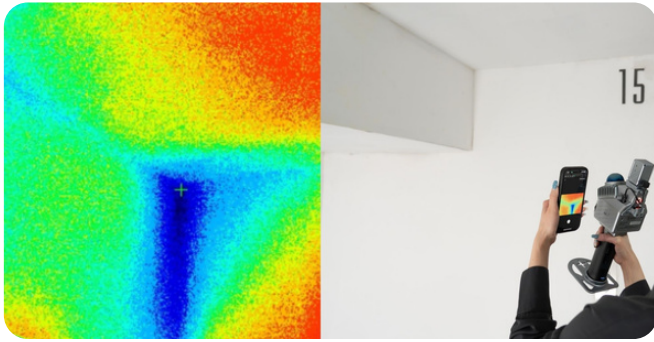
640×512
Thermal Resolution



FOV $48^\circ \times 39^\circ$

From Hidden Risks to Clear 3D Locations

By the time damage becomes visible, repair costs have already started to rise. Infrared detection uncovers hidden risks earlier, and 3D spatial context makes every issue easier to locate, document, and act on.

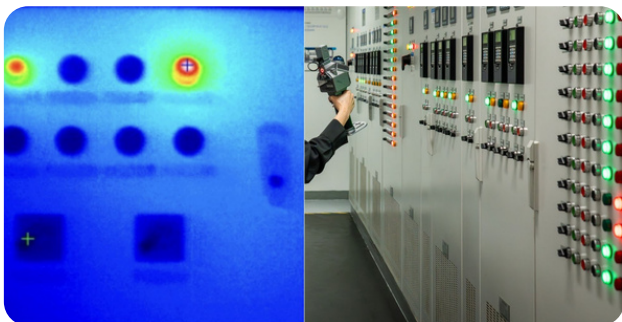
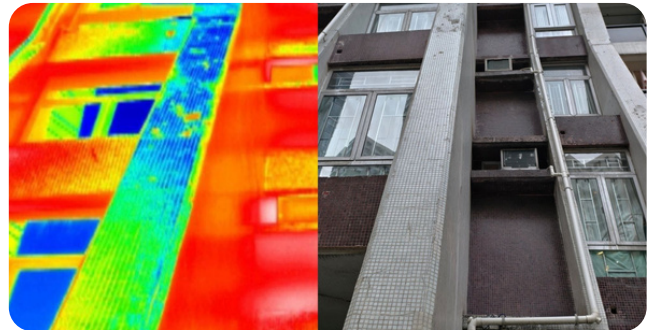


Water Leakage

Moisture can hide behind surfaces that appear dry, leading to wall damage and mold growth. P2 Vision+ can spot leaks early and place each issue in a 3D map so teams can find the problem quickly and accurately without lengthy site notes.

Facade Delamination

A facade may look stable from the outside, but hidden separation can still develop beneath. P2 Vision+ uncovers these defects and pinpoints their precise locations across the facade for faster, clearer analysis without repeat visits.

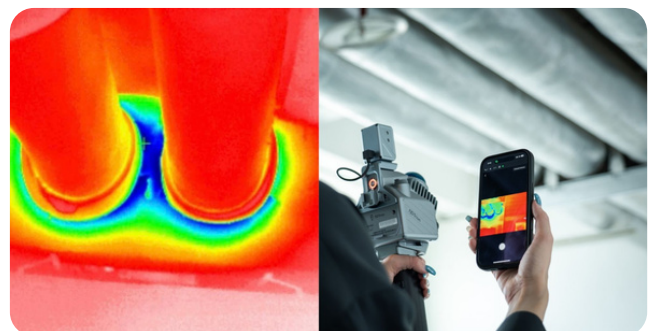


Electrical overheating

Find electrical hotspots before they cause shutdowns. P2 Vision+ detects overheating early, and links each issue to the right equipment — quickly, accurately, and without manual labeling.

Pipe Leakage

What looks protected outside may be costing you beneath the surface. Hidden leaks under insulation waste energy and affect performance. P2 Vision+ detects them early and maps each leak precisely, even in complex piping networks.

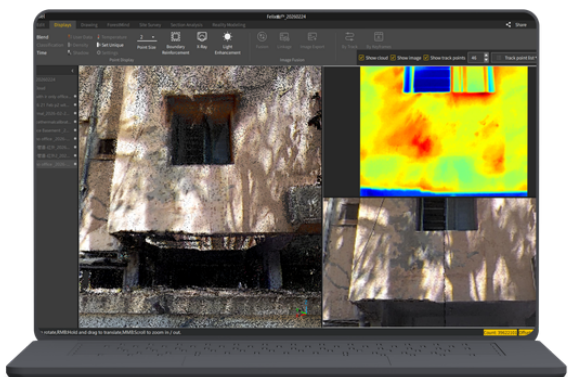
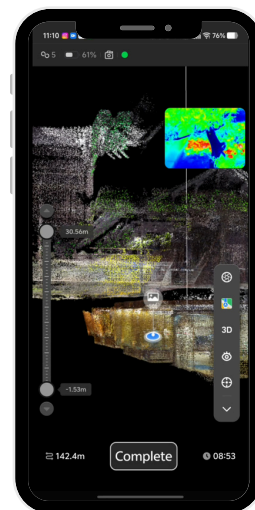


Turn Findings into Reports, Faster

Forget about time-consuming image-to-site matching after the inspection. FJD Trion lets teams capture and label anomalies on site, anchor them to their real-world locations, and turn findings into reports faster with less rework.

Detect and Document in One Walk

See it, capture it, and label it right on site. Document anomalies the moment they are found, avoiding the extra time, confusion, and rework of relocating the issue later.

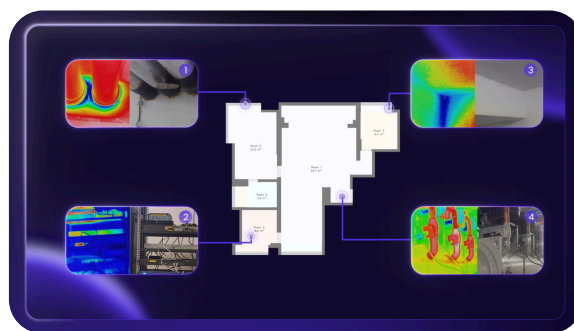


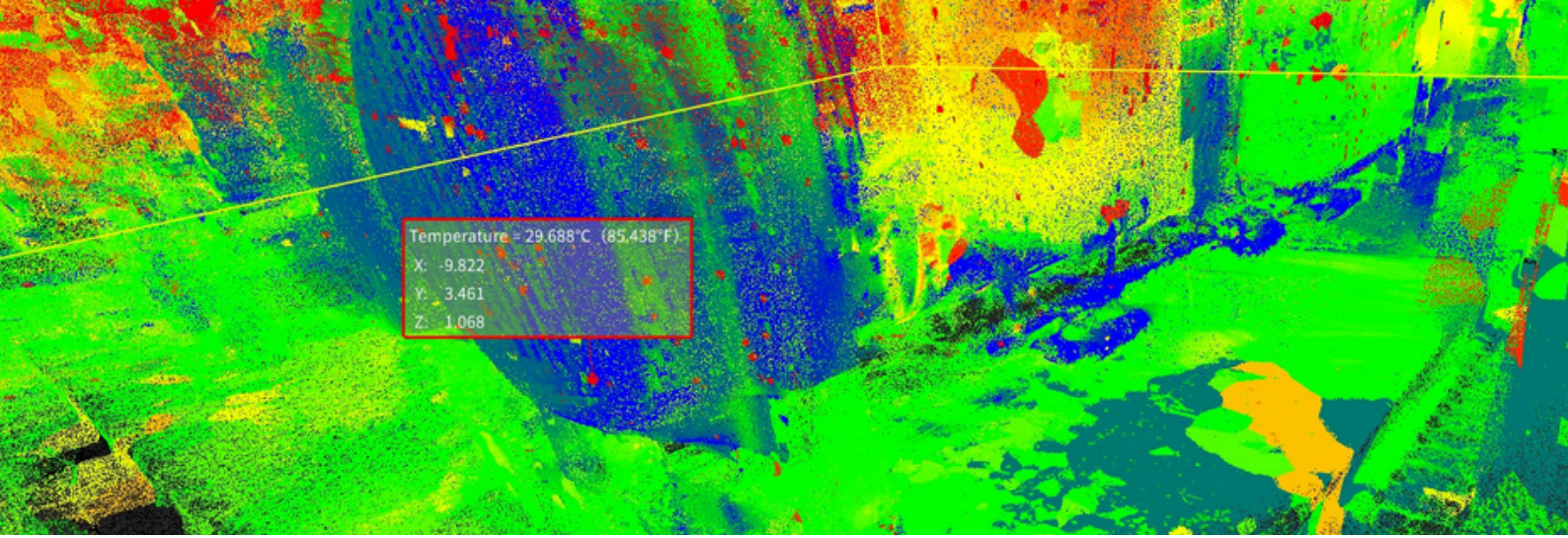
Linked Views for Clearer Review

Thermal images alone can be hard to interpret. Trion Model combines thermal, visible-light images, and 3D views in one workflow, helping teams review findings with clearer spatial context and identify the right location faster.

One Click Report, Ready for Action

Generate reports faster with floor plans created in one click and anomalies marked in place, turning inspection results into clear, shareable deliverables with less manual sorting, editing, and explanation.





Make Every Issue Easier to Close Out

When infrared information is brought into 3D, it goes beyond a thermal image. It becomes a reusable thermal asset — anchored in space, measurable in context, and ready for reinspection, comparison, and follow-up.



Measurable

With centimeter-level spatial accuracy, thermal findings can be measured by size and distance for more precise follow-up.



Traceable

3D thermal data helps teams see how anomalies connect across walls, rooms, and building elements, making problem areas easier to narrow down.

Where It Pays Off



Building Inspection



Data Center Monitoring



Pipeline Inspection



Cold Chain Warehouse Inspection



Historic Preservation



Solar Panel Maintenance

Specifications

Model Comparison

Model	Thermal Image Resolution	Thermal FOV
P2 Vision+	384 × 288	26°×20°
P2 Vision+ Max	640 × 512	48°×39°

Thermal Imaging Camera

Sensor Type	Vanadium Oxide (VOx) Microbolometer
Pixel Size	12 μm
Spectral Range	8~14 μm
MRAD (Spatial Resolution)	1.2
NETD	≤40 mK (@25 °C, F#1.0)
Interface	Type-C
Power	≤0.55 W
Temperature Measurement Distance	Maximum 15 m
Temperature Accuracy	±2 °C or ±2% of reading

LiDAR

Speed	200,000 pts/s
FOV	360° x 59°
Range	40 m @ 10% reflectivity 70 m @ 80% reflectivity
Safety Level	Class 1, eye safety
Hyperdense+	√
Continue Scanning	√

Built-in Camera

FOV (Front Camera)	70°
FOV (Side Camera)	280°×149°
Resolution (Front Camera)	2 MP
Resolution (Side Camera)	2 x 48 MP
Visual SLAM	√
Image Export	√
Image Format	.jpg

Point Cloud Accuracy

Post-Processed Point Cloud Accuracy*	Relative: ≤1 cm; Absolute: 3 cm
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*Lab-tested accuracy; actual results may vary

General Specifications

Dimensions	110×106×280 mm
Weight	700 g (excl. battery and thermal imaging camera) 980 g (incl. battery and thermal imaging camera)
Storage	512G (1TB expandable)
Operating Temperature	-20°C - 50°C
Storage Temperature	-40°C - 60°C
Ingress Protection	IP 54
Data Export	Wireless Network, USB Type-C, USB Flash Disk
Point Cloud Format	.las / .ply / .pts / .e57

Electrical Specifications

Battery Life	4H (with 1 set of 2 batteries, incl. thermal camera)
Power Supply	DC Handheld Battery
Power Consumption	15 W (excl. thermal camera) 16 W (incl. thermal camera)
Charger	67W Fast Charging
Simultaneous Dual-Battery Charging	√