



JC Thermal Master Pro - App Description and Viewer Guide

Description of the JC Thermal Master Pro mobile thermography app for FLIR One Pro and FLIR Edge Pro, including workflow, radiometry, export and an extended guide to the offline JCTM Project Viewer.

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Purpose And Use Profile

JC Thermal Master Pro is an Android app for mobile thermographic inspections with FLIR One Pro and FLIR Edge Pro cameras. It is designed for field work where thermal images, measurement values, notes and structured project data need to be captured directly on site.

The app is offline-capable and project-oriented. Capture, editing and project completion take place locally on the mobile device. An internet connection is only needed when a project is deliberately copied, sent or shared.

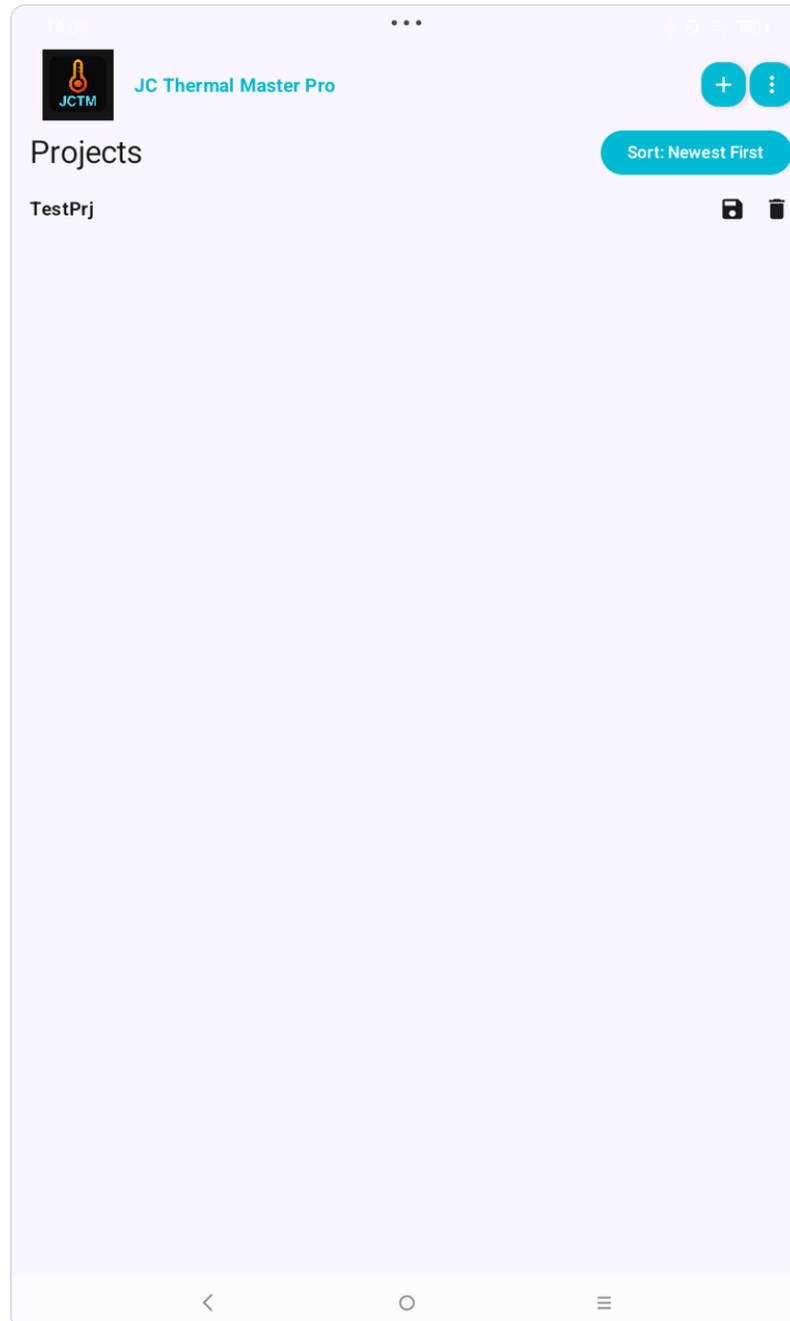
The main value is the closed project workflow: a field project can be exported as ZIP, reviewed and edited in the office in a browser without installing the mobile app, saved again as an updated ZIP and then imported back into JC Thermal Master Pro.

- Android 13 or higher
- FLIR One Pro via USB-C
- FLIR Edge Pro wirelessly
- Project-based image and metadata management
- Offline export with browser-based HTML viewer
- Share projects with colleagues, supervisors or customers without requiring a JCTM app installation

Typical Workflow

The workflow starts with a project. Customer data, location, inspected object, inspection information, thermal defaults and optional notes are maintained there. The camera is then connected, live view is started and relevant thermal images are saved.

- Create a project and enter master data
- Connect the FLIR camera and start live view
- Adjust palette, image mode, measurement point, hot/cold spots and radiometry
- Save thermal images and add status, description, tags and optional GPS data
- Export the project as ZIP and review or edit it on a PC with JCTM Project Viewer



Project list in JC Thermal Master Pro

Project And Metadata

Projects collect all data from an inspection. In addition to project name and description, the app can store status, temperature range, unit, palette, measurement options, customer data, location, object, operator, environment, device data, verification and approval information.

This structured storage supports later review, filtering, traceability and report preparation.

TestPrj

Created: 2026-02-21 18:34

Save Stream Images

Basic data

Project name
TestPrj

Project ID
dad3e160-6cc0-4568-a033-2be1ae2de05c

Description
Test project for JCTM

Status
New

Temperature range
-20°C .. 120°C

Temperature unit
CELSIUS

Distance unit
METERS

Palette
RAINBOW

Show measure point

Show hot/cold spots

Enable GPS recording

Project metadata

Customer

Title

First name

Project and metadata view

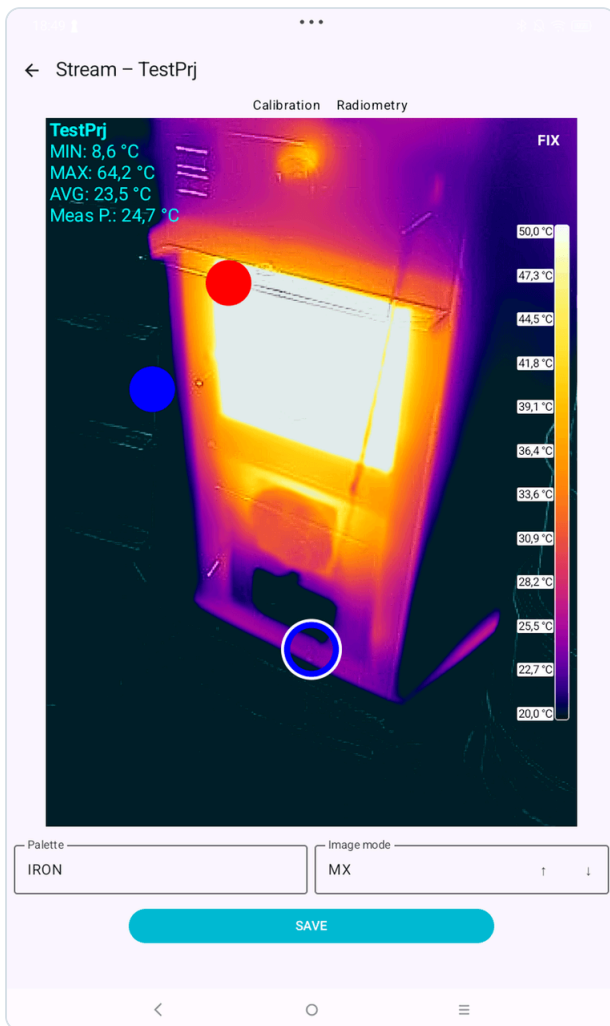
Live View, Radiometry And Image Modes

In live view, JC Thermal Master Pro displays current temperature values such as MIN, MAX, AVG and the optional measurement point. Depending on project configuration, hot/cold spots, measurement point display and fixed or automatic temperature scale can be used.

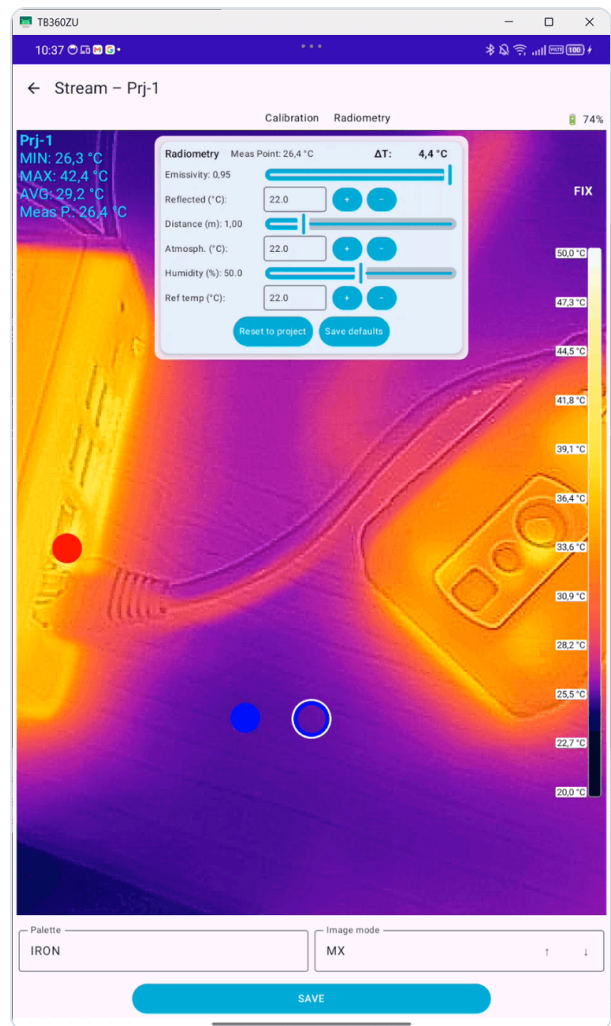
The radiometry panel allows adjustment of emissivity, reflected temperature, distance, atmospheric temperature, humidity and reference temperature. These values are important when measurements must remain documented and reproducible.

- IR, MX/MSX and visual image modes
- Palettes and fixed temperature scales
- Manual and automatic calibration

- Radiometric correction parameters
- Reference temperature for delta-T evaluation



Live view and capture function

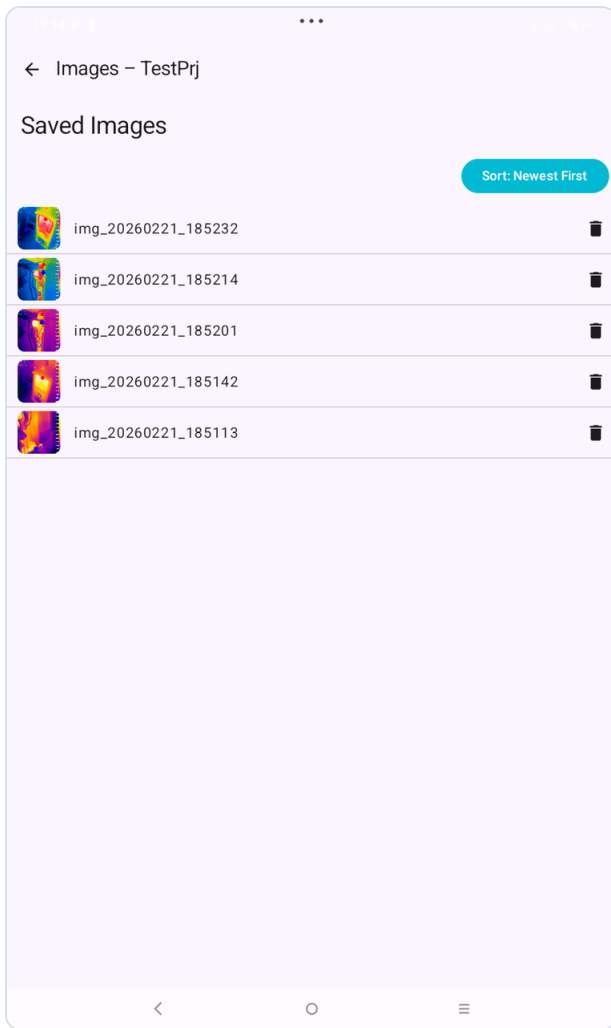


Radiometry panel

Image Storage And Review

When an image is saved, the current thermal image is assigned to the project together with measurement values and metadata. Description, status, tags, favorite flag and optional external temperature can be added later. Non-editable measurement data remains traceable.

- Image name and description
- Temperature values, palette, image mode and dimensions
- Thermal parameters at capture time
- Timestamps, tags, favorite flag and status
- Optional GPS position when enabled in the project



Saved image list

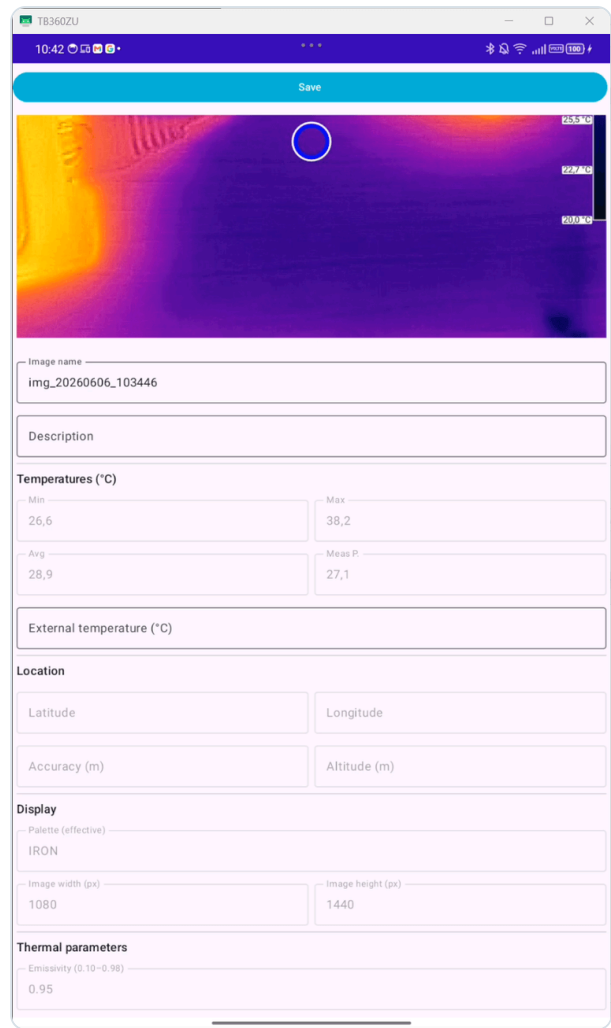


Image details and editable fields

Export Format And Data Sharing

Projects can be exported as ZIP files. The export contains the project file, the saved images and the related image metadata. This makes it possible to share, archive or review a complete inspection on a larger screen.

The export is deliberately initiated by the user. There is no automatic upload to a server. The ZIP file can be stored locally, shared internally or opened with JCTM Project Viewer.

This allows a technician to capture the project in the field and send it to the office, a supervisor or a colleague. These recipients do not need the mobile JCTM app. They open the Viewer and the project ZIP in a browser, review the data, add descriptions and generate a PDF report when needed.

If project data is changed in the Viewer, the Viewer can create an updated JCTM project ZIP again. This ZIP can be copied back to a mobile device and imported into JC Thermal Master Pro. The user can then continue the browser-edited project in the field, add more images, correct data and export it again.

- Project file with structured project data
- Thermographic images and matching image metadata
- Offline-capable exchange format
- Review on PC, notebook or tablet
- Re-import into JC Thermal Master Pro after Viewer editing
- Suitable for archiving and documentation

JCTM Project Viewer

JCTM Project Viewer is a browser-based HTML application for opening exported JCTM project ZIP files. It does not require a server installation, a database or the mobile JCTM app on the receiving computer. The recipient only needs the Viewer files and the project ZIP.

After opening a ZIP file, the Viewer reads the project data, detects the available image files and loads the matching image metadata. When images are present, the first image is selected automatically and shown in the large preview area.

The Viewer is especially useful at an office workstation. On a larger screen and with a full keyboard, project fields, longer descriptions, tags, status values and report summaries can be completed more comfortably than on a mobile device. On mobile, JC Thermal Master Pro can also be used efficiently with a Bluetooth keyboard when longer text entry is required.

- Open JCTM project ZIP files
- Display project information, image list and image details
- Recent projects via browser storage
- Save edited data as a new ZIP file
- Download the currently selected image
- Cross-platform use in modern browsers on Windows, Linux and macOS

JCTM Project Viewer with an opened project ZIP

Viewer: Edit Project And Image Data

In the Viewer, project data is shown in structured sections. Typical sections include basic data, customer data, location, inspection data, operator, environment, object, device, thermal defaults, verification, approval, notes and timestamps.

The image view shows all project images as thumbnails. Clicking a thumbnail opens the large preview and the detail panel. Description, status, external temperature, tags and favorite flag can be edited there when the project is editable.

When project or image fields have been changed, the Viewer clearly indicates that changes are not yet saved. Save project creates an updated ZIP file. This file contains the modified project.json and updated image metadata and can be used again as a JCTM project.

- Review and correct project fields
- Prepare image status values for evaluation and reporting
- Add descriptions, tags and favorite flags after capture
- Unsaved-changes warning until saving
- Export an updated project ZIP file



Viewer image view with editable image data

Viewer: Reports And Filters

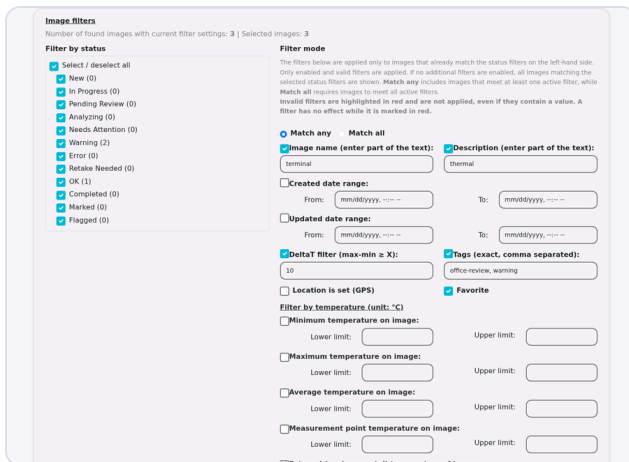
The Viewer includes a report view. A report summary can be entered, and the user can select which project data, image data and statistical sections should appear in the report.

For larger projects, filtering is important. Images can be filtered by status, name, description, creation or update date, delta-T, tags, GPS status, favorite flag and temperature ranges. Filters can be applied as match any or match all.

The found images can be selected individually or included/excluded as a group before printing. Preview / Print report then creates a printable view that can also be saved as PDF by the browser.

This makes it possible to generate different reports from the same project: for example a management report with only marked warning images, a technical detail report with measurement tables or a complete evidence report with project and image data.

- Selectable project and image fields
- Optional tables: Images by status, Basic statistical data, Measured values by images
- Status and detail filters for focused reports
- Select found images before printing
- Print view or PDF output through the browser



Report filters with status, text, delta-T and tag selection



Found and selected images for the report

Re-Import And Mobile Continuation

A ZIP file saved by the Viewer remains a JCTM project package. It can be copied to an Android device and imported back into JC Thermal Master Pro using the app import function.

After import, the user can continue the project on the mobile device: review existing project and image data, capture additional images, add descriptions, change status values and export the extended project again.

This creates a practical offline loop between field work and office review: capture in the field, review and report generation in the office, return as ZIP, continue on the mobile device and share again.

- Import previously exported or Viewer-updated project ZIP files
- Continue work on the mobile device without losing office additions
- Add more thermal images and metadata
- Export again for archive, reporting or colleague review

Privacy And External Links

JC Thermal Master Pro is designed as an offline-first tool. Images, notes, measurement values and optional GPS data are stored locally and are not automatically transmitted to JC-Technology GmbH or third parties. Exports are explicitly initiated by the user.

Further information: product page <https://jc-technology.at/en/products/thermal-master/> , Google Play Store <https://play.google.com/store/apps/details?id=com.jctech.jctm.pro> , privacy policy <https://jc-technology.at/jctmprivacy/> , FLIR Approved App Gallery <https://www.flir.com/developer/approved-app-gallery-android/>