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› LAUREII ShortCam Thermal Imaging Analyzer AD11 User Manual

## LAUREII AD11

# LAUREII ShortCam Thermal Imaging Analyzer AD11 User Manual

Model: AD11 | Brand: LAUREII

## INTRODUCTION

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The LAUREII ShortCam Thermal Imaging Analyzer AD11 is a state-of-the-art device designed for precise PCB circuit board fault diagnosis. Utilizing advanced thermal imaging technology, it allows for real-time monitoring of component temperatures, enabling quick and accurate identification of faulty parts. This manual provides essential information for setting up, operating, and maintaining your AD11 thermal imaging analyzer.

## PRODUCT OVERVIEW

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The ShortCam AD11 integrates intelligent algorithms and positioning technology to provide detailed thermal analysis. Its robust design and high-performance sensor ensure reliable and accurate results for professional use.

- **Intelligent Algorithm & Positioning:** Employs dual-spectral interweaving positioning and intelligent dual-optical fusion algorithms to display real-time operating temperature data for individual chips, resistors, and capacitors on the motherboard.
- **Accurate Detection:** Capable of precisely detecting small leakages with a one-click quick check function. Features Visible, Infrared Thermography, and Dual Optical Interlace positioning display modes.
- **Material Design:** Constructed from durable aluminum alloy, ensuring strong heat dissipation and excellent EMC performance, preventing paint peeling.
- **Alarm Function:** Equipped with a high-temperature alarm function, the intelligent software can record every motherboard failure, making it ideal for phone/computer PCB fault infrared thermal imaging and maintenance.



Figure 1: LAUREII ShortCam Thermal Imaging Analyzer AD11.

Supports all models/brands of mobile phone motherboards

# Infrared PCB fault diagnostic instrument with thermal imaging

Professional motherboard testing equipment

High Temperature Alarm

Precise Positioning

Real-time Monitoring



**LAUREII**

Figure 2: Key components of the ShortCam AD11, including Power Interface, Host, Fixing Screws, Visible Light Camera, Infrared Camera, Bracket, Plastic Insulation Pad, and Base.

## WHAT'S IN THE BOX

Upon unboxing your LAUREII ShortCam Thermal Imaging Analyzer, please ensure all the following components are present:

- AD11 PCB Thermal Imager
- Power Supply
- HDMI Switcher
- HDMI Cable
- USB-Type-C Cable

## SETUP

1. **Placement:** Place the ShortCam AD11 on a stable, flat surface, ensuring adequate space for the PCB under test.

2. **Power Connection:** Connect the provided power supply to the device's power interface and plug it into a suitable power outlet.
3. **Video Output:** Connect the HDMI cable from the ShortCam AD11 to your display monitor or HDMI switcher.
4. **Data Connection:** Connect the USB-Type-C cable from the ShortCam AD11 to your computer.
5. **Software Installation:** Download and install the necessary software from the official LAUREII website or the provided link: Software Installation Package. Follow the on-screen instructions to complete the installation.
6. **Initial Power On:** Power on the device and launch the installed software on your computer.



Figure 3: The ShortCam AD11 connected to a laptop, demonstrating its use for thermal analysis of a PCB.

## OPERATING INSTRUCTIONS

The ShortCam AD11 provides powerful diagnostic capabilities through its intuitive software interface.

### Basic Operation

1. **Place PCB:** Position the circuit board you wish to analyze directly under the thermal imager's lens.
2. **Software Interface:** Open the LAUREII ShortCam software on your connected computer. The live feed from the camera will be displayed.
3. **Display Modes:**
  - **Visible Light:** Displays a standard optical image of the PCB.
  - **Infrared Thermography:** Shows the thermal map of the PCB, highlighting temperature variations.
  - **Dual Optical Interlace Positioning:** Combines visible light and infrared data for precise fault localization.
4. **Temperature Monitoring:** The software will display real-time temperature readings of components. You can click on specific areas to get precise temperature values.



# Dual Vision Imaging Instant Diagnosis of Leakage



Figure 4: Dual Vision Imaging for Instant Diagnosis of Leakage, showing the software interface with a PCB view.



# Master Every Move of the Motherboard Temperature

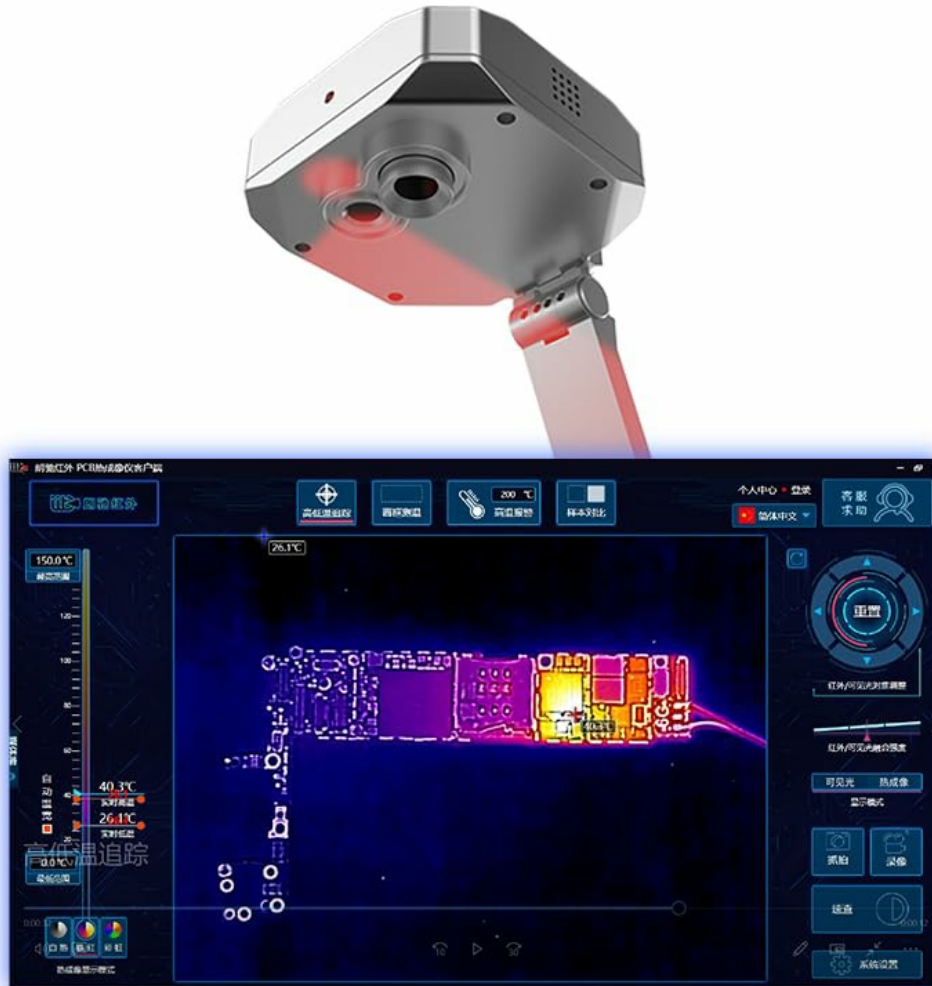


Figure 5: Master Every Move of the Motherboard Temperature, illustrating the thermal imaging capability.

## Advanced Features

- **One-Click Quick Check:** Utilize this function within the software to quickly identify potential leakage points on the PCB.
- **High Temperature Alarm:** Configure temperature thresholds in the software. The system will alert you if any component exceeds the set temperature, indicating a potential fault.
- **Real-time Welding Temperature Monitoring:** The ultra-wide temperature range allows for real-time monitoring of welding temperatures, ensuring precise and safe soldering operations.

## Beautifully designed and easy to install



Figure 6: Demonstration of 5mA Leakage Easily Checked, showing the device detecting a small current leakage.

Your browser does not support the video tag.

Video 1: Official LAUREII IIT ShortCam product video demonstrating its features and capabilities, including rapid fault detection and thermal analysis.

### MAINTENANCE

- **Cleaning:** Gently wipe the device's exterior and lens with a soft, dry, lint-free cloth. Avoid using abrasive cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Software Updates:** Regularly check for software updates from the LAUREII website to ensure optimal performance and access to new features.
- **Handling:** Handle the device with care to prevent physical damage, especially to the camera lens and articulated arm.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
No image displayed on screen.	Power not connected, USB/HDMI cable loose, software not running.	Check power connection. Ensure USB and HDMI cables are securely connected. Launch the LAUREII ShortCam software.
Inaccurate temperature readings.	Incorrect calibration, environmental interference.	Ensure the device is used in a stable environment. Refer to software settings for calibration options if available.
Software not detecting device.	USB driver issue, cable fault.	Reinstall software and drivers. Try a different USB port or cable. Restart computer and device.
Device overheating.	Poor ventilation, prolonged use in high ambient temperature.	Ensure proper ventilation around the device. Operate in a well-ventilated area. If problem persists, discontinue use and contact support.

## SPECIFICATIONS

Feature	Detail
Model Number	AD11
Manufacturer	Guangdong Laureii Intelligent Technology Co., Ltd.
Package Dimensions	8.94 x 8.9 x 2.99 inches
Item Weight	3.59 Pounds
First Available Date	January 25, 2024
ASIN	B0CQ88RWGN

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official LAUREII website. You may also contact LAUREII customer service directly for assistance with product inquiries, troubleshooting, or service requests.

For software installation package, please visit: [https://drive.google.com/file/d/1wqLVNkYL3glgUP3bDE0OwhTBC-h5RMkG/view?usp=drive\\_link](https://drive.google.com/file/d/1wqLVNkYL3glgUP3bDE0OwhTBC-h5RMkG/view?usp=drive_link)

