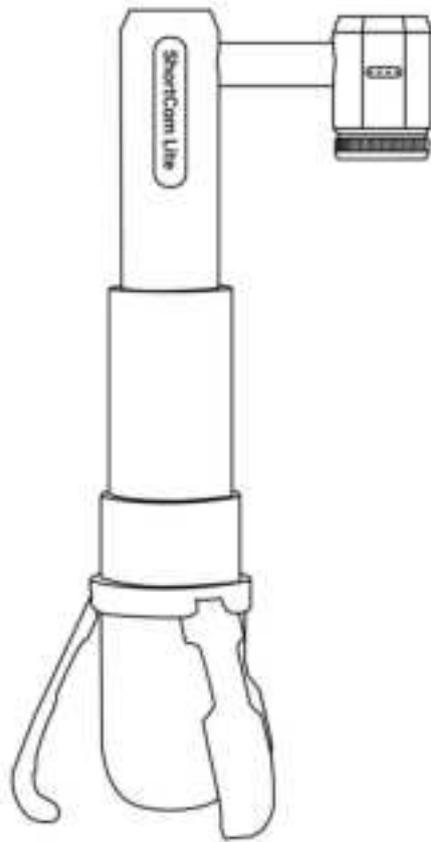




ShortCam Lite User Guide



Shenzhen Launch Digital Technology Co., Ltd



Model:LC-AS20

Manufacturer:Shenzhen Launch Digital Technology Co.,Ltd

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1、 Product Overview and Features

1.1. Product Overview

ShortCam Lite is a single-light infrared thermal imaging inspection tool for cell phone motherboard repair, can quickly locate the PCBA short circuit, leakage of faulty components, support for multi-platform use, can efficiently solve the traditional leakage detection methods with low efficiency, operational difficulties and other issues.

1.2. Product Features

- High-definition thermal imaging, details are more clear, support one-key speed check function, fast and accurate positioning of high-temperature device location;
- Equipped with WIFI function, which supports multi-platform client connection such as iPhone, Android cell phone and laptop;
- Infrared camera is removable, can be mounted on the microscope through a special bracket, simple operation, multi-purpose;
- Bracket can be flexibly telescoped to adjust the height, easy to store, comprehensively enhance the user experience, to meet the needs of different scenarios.

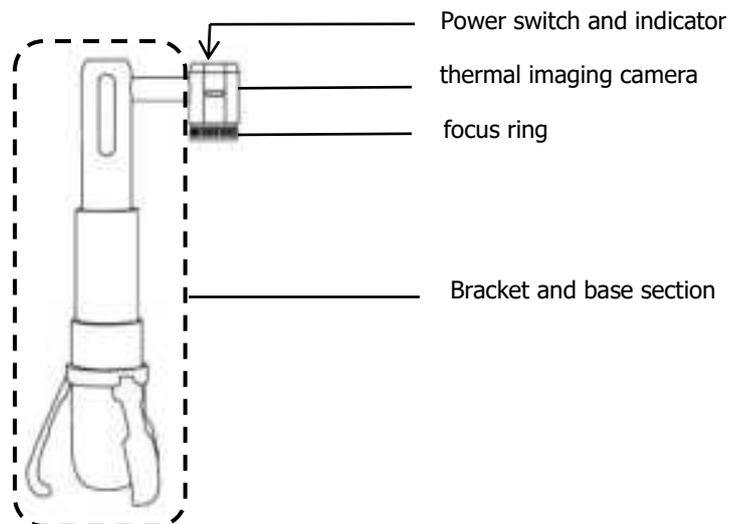
Product Specifications

Specifications of Infrared Thermal Imaging Camera		ShortCam Lite
Detector type	Uncooled VOx detector	
Resolution	256*192	
Wavelength range	7.5~13.5 um	
FOV	25°*18°	
Temperature Measurement Range	-20°C~550°C	
Temperature Measurement Distance	5cm~25cm	
Temperature Measurement Accuracy	±5°C or ±5% (take maximum)	
Interface and Display Functions		
Display mode	Whitehot/Hotmetal/Rainbow	
Connection Methods	Type-C	
Image Storage Formats	JPG	
Physical property		
Product Size/Weight	116*52*150mm/186 g	
Installation	Plug and play, no installation required	
Input supply voltage	5V DC	
Power wastage	2.5W	
Storage temperature range	-20°C~60°C	
Working environment	3°C~45°C, 95% relative humidity	

2、 Equipment Instructions

- 1, Unpack the ShortCam Lite, and count the components according to the packing list (the components mainly include the host device and Type-C cable);
- 2、 Prop up the base of the ShortCam Lite main unit to stabilize it on a flat surface, and stretch the stand upward to the desired height;
- 3、 Use the Type-C cable to connect the computer and ShortCam Lite, the blue light of the power indicator flashes, the indicator stabilizes to a constant state in about 25s, and the image can be displayed normally on the ShortCam Lite software.
- 4, According to the different heights, you can turn the focus ring for clarity adjustment, if you need to use with a microscope, you can directly remove the thermal imaging camera, use the Type-C cable power supply can be used on the microscope.
- 5, The product supports WIFI connection, cell phones or computers can be used at the same time through the WIFI connection, WIFI hotspot name ShortCam Lite_XXXXX, where XXXXX for the product serial number after 5, such as the product serial number for the 8000E22040485288, the WIFI hotspot name is ShortCam_Lite_85288, and the WIFI password is 12345678.

The product schematic is as follows:



3、 Software Installation and Functional Interface Description

3.1 PC client operating environment requirements:

ShortCam Lite software has certain requirements for computer configuration, ShortCam Lite client software can run smoothly if the following requirements are met

Computer CPU processor: I3 5th generation or above.

Memory size: 8G and above

Operating system: Windows 7/Windows 10/Windows 11

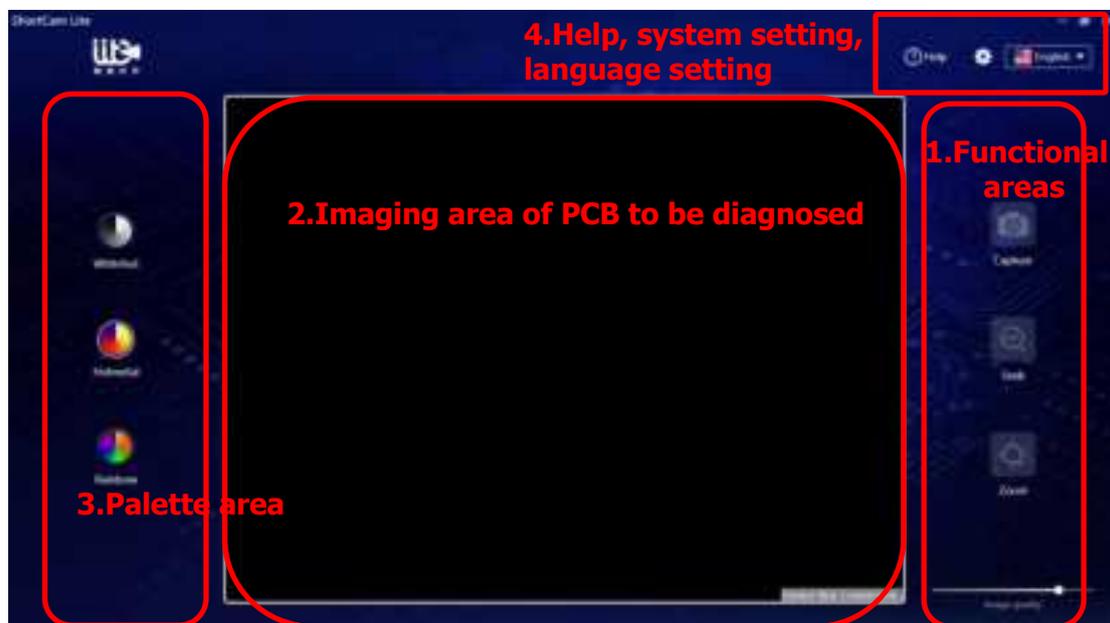
3.2 PC client download and installation

1. The PC client software can be downloaded by opening the official website of Lancel (<http://www.launchdigital.net/>), clicking "Service and Support" -> "Download Center", and then selecting Click "Service & Support"->"Download Center" and select "ShortCam Lite PC Client Software" to download;

2, Decompression of the installation package, the implementation of ShortCam Lite client installation software, according to the prompts in turn click on the next step, after the installation is complete can be used normally;

3.3 PC client function interface description

Client software installation is complete, double-click the desktop shortcut  can be opened, the overall interface of the software in accordance with the functional areas are divided into four areas, the overall interface and functional menu layout area is shown below:



(1) Functional areas

[Snapshot] Click the client software button , you can snap a picture of the current inspection of the motherboard, retaining the maintenance data for future maintenance reference use, you can use the shortcut key C, the captured photos are saved in C:\ShortCam Lite\Record by default.

[Quick Check] Click on the client software button , the image is automatically switched to white hot mode, and the screen will be the highest temperature location display highlights yellow, quickly locate the location of the motherboard heat, you can also manually adjust the temperature width, screening out the area of the highest temperature.

[Enlargement] Client software  button, and then long press the left mouse button to frame the infrared real-time screen, you can realize the local zoom observation of the heating components to meet the maintenance details processing.

[Image Effect] Drag the temperature width bar to display the image effect corresponding to the temperature width range as desired.

(2) Imaging area of PCB to be diagnosed

The PCB motherboard to be repaired will be powered on and placed in the center of the image (if there is a screen cover to remove the screen cover), you can view the image of the PCB board to be diagnosed in this area, if the screen has more than one high-temperature area, you can pull the vertical temperature width bar on the left side of the area to screen out the area with the highest temperature.

(3) Palette area

There are three color palettes to choose from in the palette area, and you can select White Hot, Iron Red, and Rainbow palette modes according to your usage habits.

(4) Help, system setting, language setting

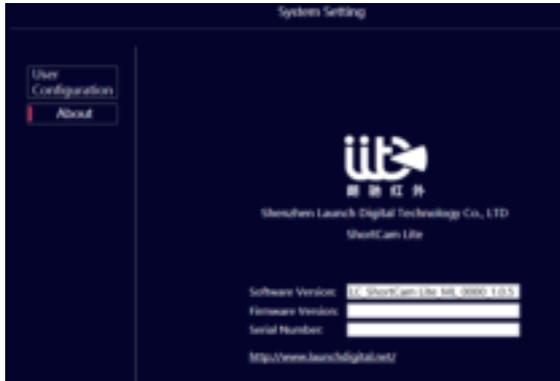
【Help】

Click this button to read the help of common problems of device use, such as how to deal with the device not connected, how to connect WIFI to use, etc. If you have any other technical advice, you can contact the after-sales customer service hotline to deal with it.

【system setting】



The user configuration field of the system settings allows you to switch the temperature unit, and you can select Celsius (°C), Fahrenheit (°F), and Kelvin (K), respectively, and you can set the location of the data storage, as well as set the data retention size.



The user field of the system settings allows you to check the software version and firmware version, and you can visit the official website of Lancaster to check for software version updates.

【language setting】



Click on the Language Settings drop-down window, it shows that you can choose "Simplified Chinese", "English (English)", "Español (Spanish)".

3.4 Mobile App Running System Requirements

ShortCam Lite software has the following system requirements for the mobile client app:

Android client: Android 8.0 and above

Apple client: iOS 11 and above

3.5 Mobile App Download and Installation

1、The client software can be downloaded by opening the official website of Lancel (<http://www.launchdigital.net/>), clicking "Service and Support" -> "Download Center", and selecting "ShortCam Lite Android Client" to download; or scan the following QR code to download (Apple client can be downloaded by scanning the QR code below or searching for ShortCam Lite on Apple's official website).



安卓客户端 (APK)
Android client (APK)

请使用浏览器扫码下载

Please scan the QR code with your browser



苹果客户端 (APP)
iOS client (APP)

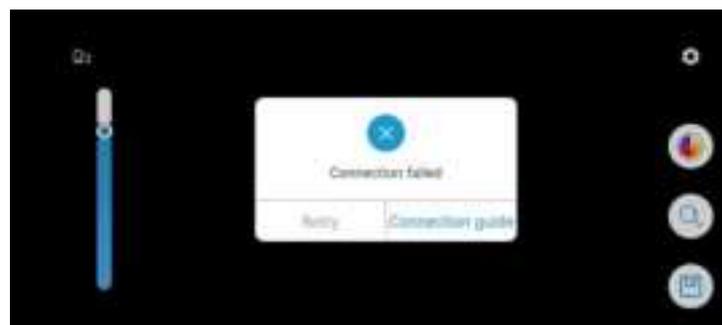
可在 APP Store 搜索 ShortCam Lite 下载软件

Search for ShortCam Lite in the APP Store to download

2、The implementation of ShortCam Lite App installation, according to the prompts in turn click on the next operation, after the installation is completed can be used normally.

3.6 Mobile App Functional Interface Description

App installation is complete, click on the desktop icon  to open the software, enter the software, first of all, according to the actual choice of language to use, respectively, Simplified Chinese ", " English (English) ", " Espanol (Spanish) "three languages; and then according to the connection guide prompts to connect to the WIFI after the success of the app to return to the App click to retry, the device is connected successfully.



The overall interface of the app and the layout of the function buttons are as follows.



App function buttons are as follows, the function is the same as the PC client software:

[Horizontal Screen Switching] [Image Effect] [System Settings] [Palette Switching] [Quick Check] [Snapshot].

The System Settings screen allows you to switch temperature units, view connection guides, firmware version, and software version.

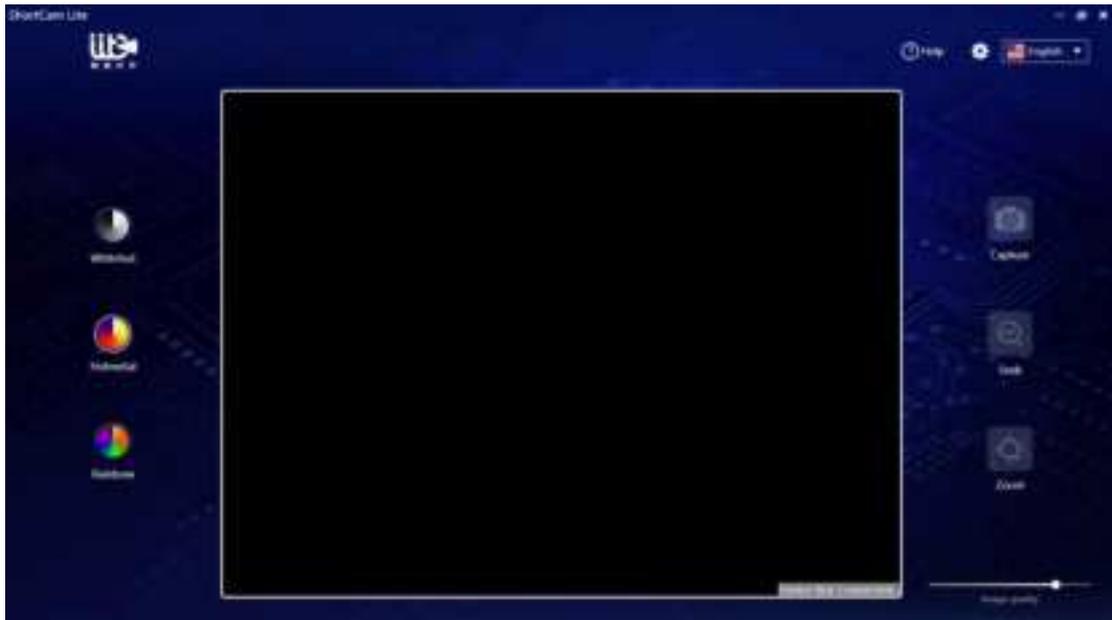


4、PCB Diagnostics Detailed Operating Instructions

After the whole machine is connected to the computer and the software is installed normally according to the above steps, you can start the normal use of PCB diagnostic function. After the mobile app is connected successfully, the image screen and the software interface effect are displayed synchronously, the specific operation steps are as follows:

- (1) Power on the ShortCam Lite device and operate the device through the ShortCam Lite client.
- (2) Click on the software interface of the "quick check" button, the screen that is positioned out of the problem motherboard high temperature region.
- (3) Use the mouse to drag the right side of the temperature width bar, you can screen out the failure point.

Normal diagnostic imaging screen is as follows:



5、 Packing List

Number	Name	Quantities
1	infrared camera	1
2	Type-C cable	1
3	Warranty card	1
4	Certificate of Conformity (CoC)	1

6、 Product Version Upgrade & Technical Support

Tel: 4001-386-389 turn 2

Software and firmware version upgrade link:<http://www.launchdigital.net/>

7、 FCC warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC warning:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.



-Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.



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