Quick Start
For
IR236 IR Fever Sensing System

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Publication No: GUIDIR® 236 UM 009-1

Part 1 System Composition

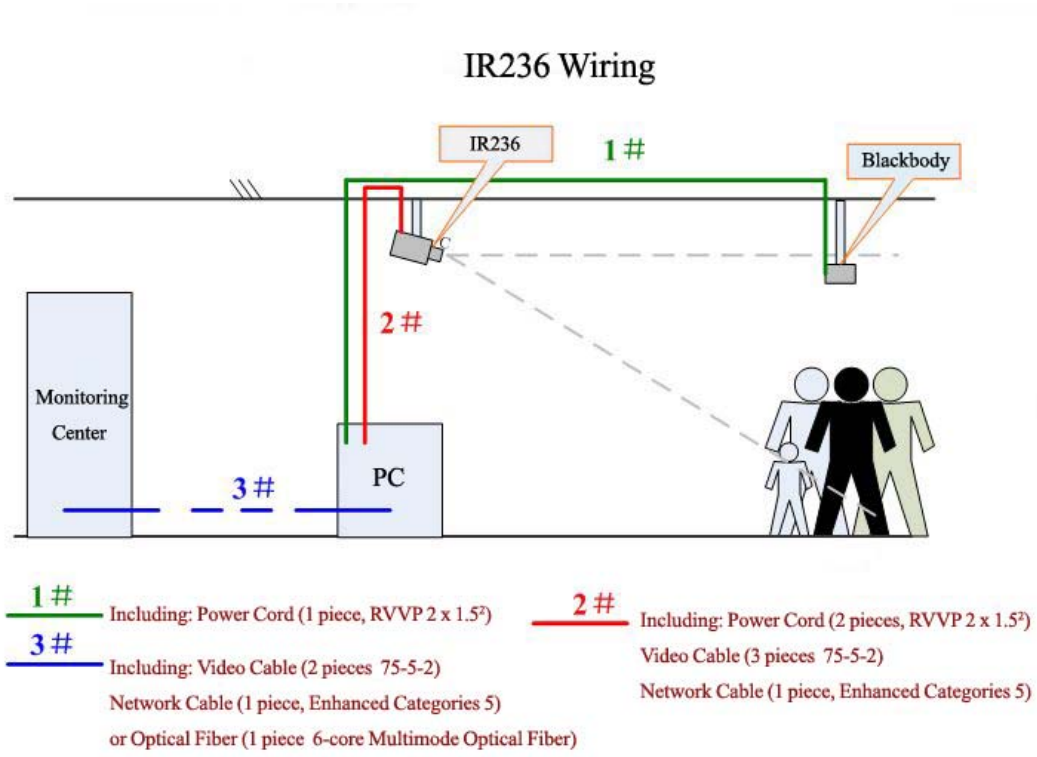


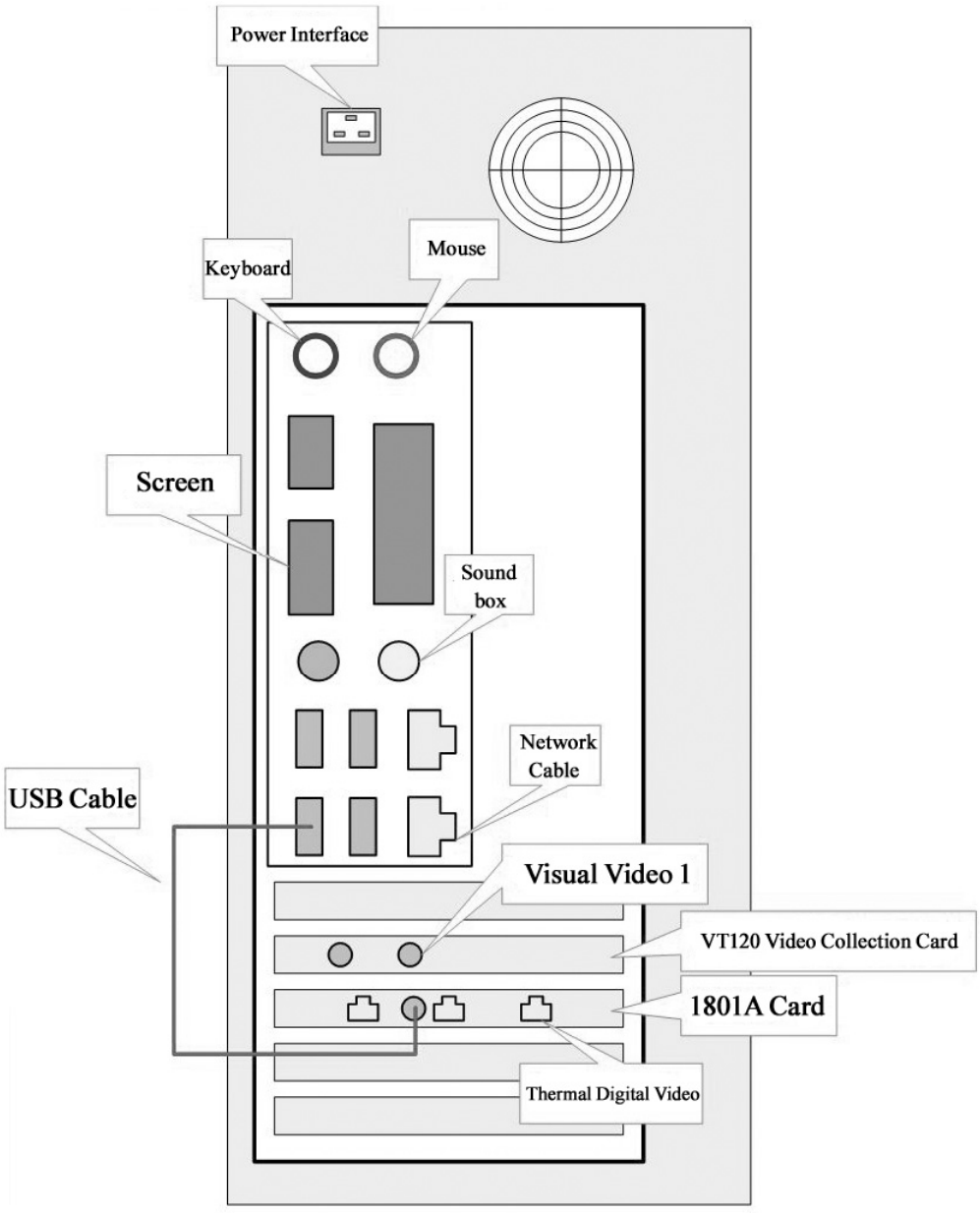
Fig 1.1 System composition

The IR236 IR Fever Sensing System is composed of:

1. Computer main frame & LCD
2. Infrared thermal imager and visual camera
3. Cable to monitoring center (optional)
4. Blackbody

Part 2 Device Connection

2.1 Computer Cable Connection



PC Back View

Note: For different types of PC, the interface position may change. Please connect the cable as per the actual mark on PC main frame.

2.2 IR Camera Cable Connection

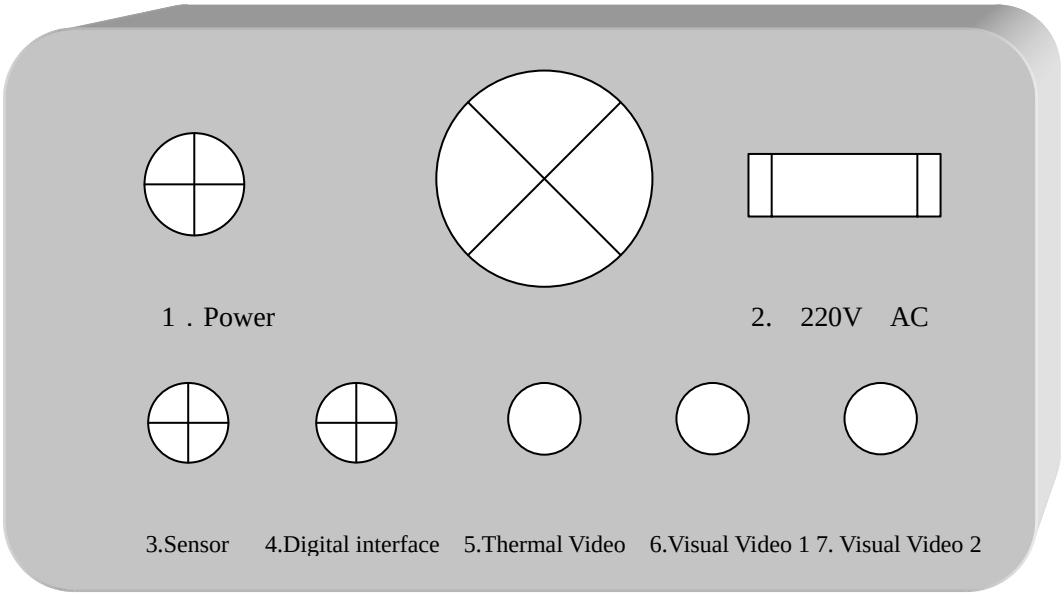


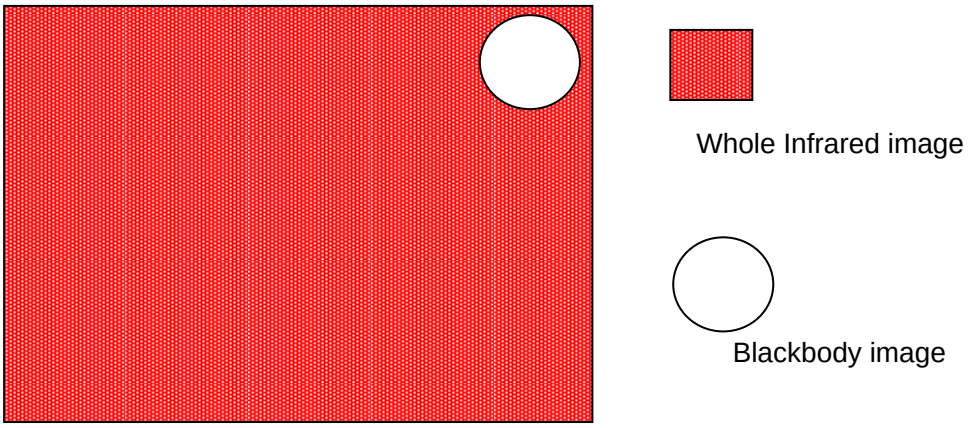
Fig 2.2 IR Camera Cable Connection

1. IR camera power/control (DC 16V)
2. Visual camera power cable (AC 220V)
3. Ambient temperature sensor
4. Digital interface (digital thermal video and control, connect to PC)
5. Thermal video (Analog thermal video signal. This is only an option, you can connect it to an ordinary video monitor)
6. Visual video 1 (Analog visual video signal, connect to PC)
7. Visual video 2 (Analog visual video signal. This is only an option, you can connect it to an ordinary video monitor)

Part 3 Installation of IR236 camera and blackbody

IR236 camera height: 2.3 ~2.5m;
Blackbody height: 1.8 ~2m;
Distance between blackbody and IR236: 5~6m;
Please find a drawing below:

The distance is flexible. You shall ensure the blackbody image is at left top or right top corner of the whole infrared image.



Part 4 Software Operation

1. **System Startup:**
   Power on the IR camera for prewarming, then turn on the computer and start the measuring program.

2. **Adjust Focus of Infrared Thermal Imager:**
   Arranging one person with normal temperature standing right ahead the IR camera, with a distance of 4~6 meters. (This step is help to adjust software setting.)

   Enter “Advanced setting”, adjust the IR focus until the face of the person shown clearly in the image.

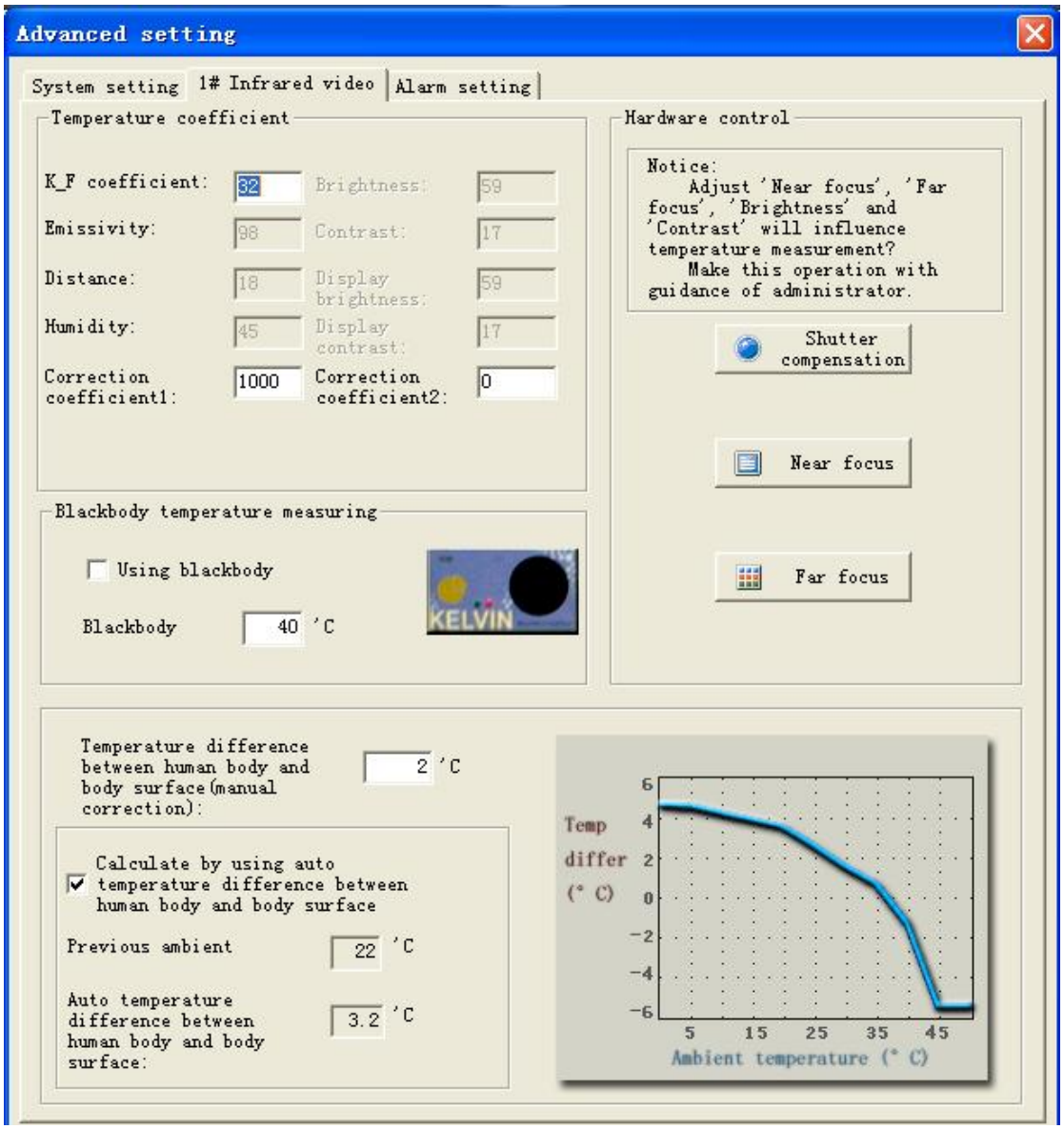


Fig3.1 Adjust Focus of Infrared Thermal Imager

3. Set Shielded Area:

Enter the “Alarm Setting” page, select the “Set shielded area” function to shield the high temperature objects in the infrared image which would influence the detection, such as the lamp, sunlight and other radiant source. Then save the setting at last.

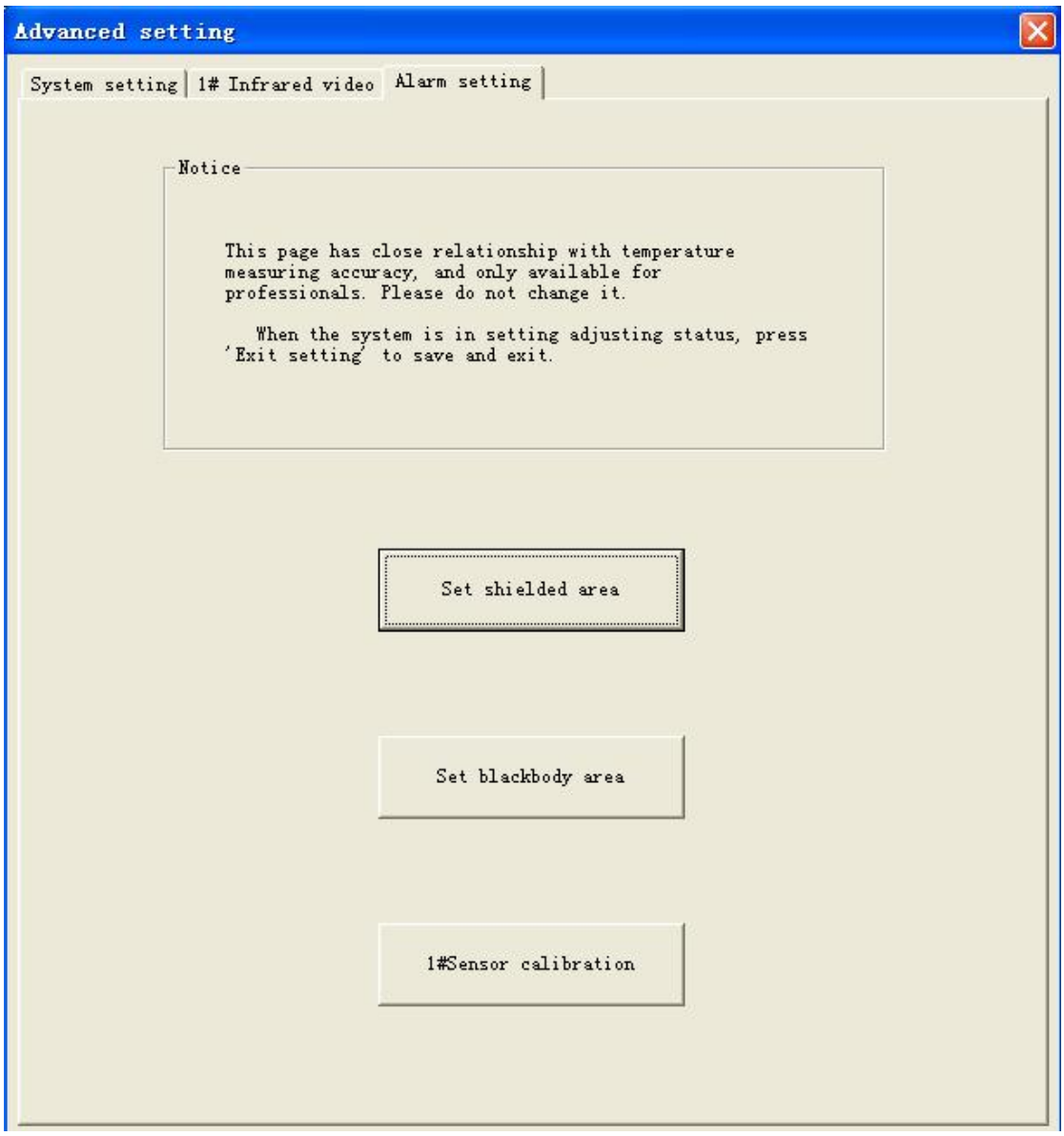


Fig3.2 Select “Set shielded area” Button

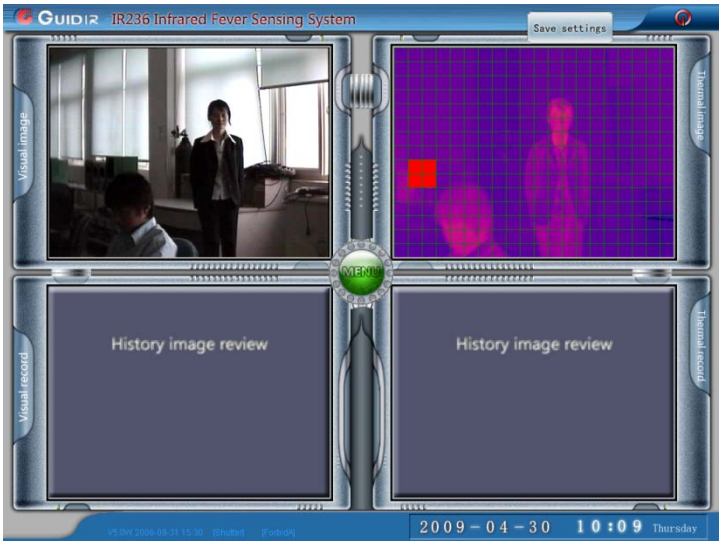


Fig3.3 Click the Little Red Square to Set The Shielded Area

4. Cursor Matching:

Select the “1#Sensor calibration” button, three cursors with serial number would appear in both thermal and visual windows.

Move and locate these cursors to the same position of corresponding objects between the two windows respectively, then press “Save” button.

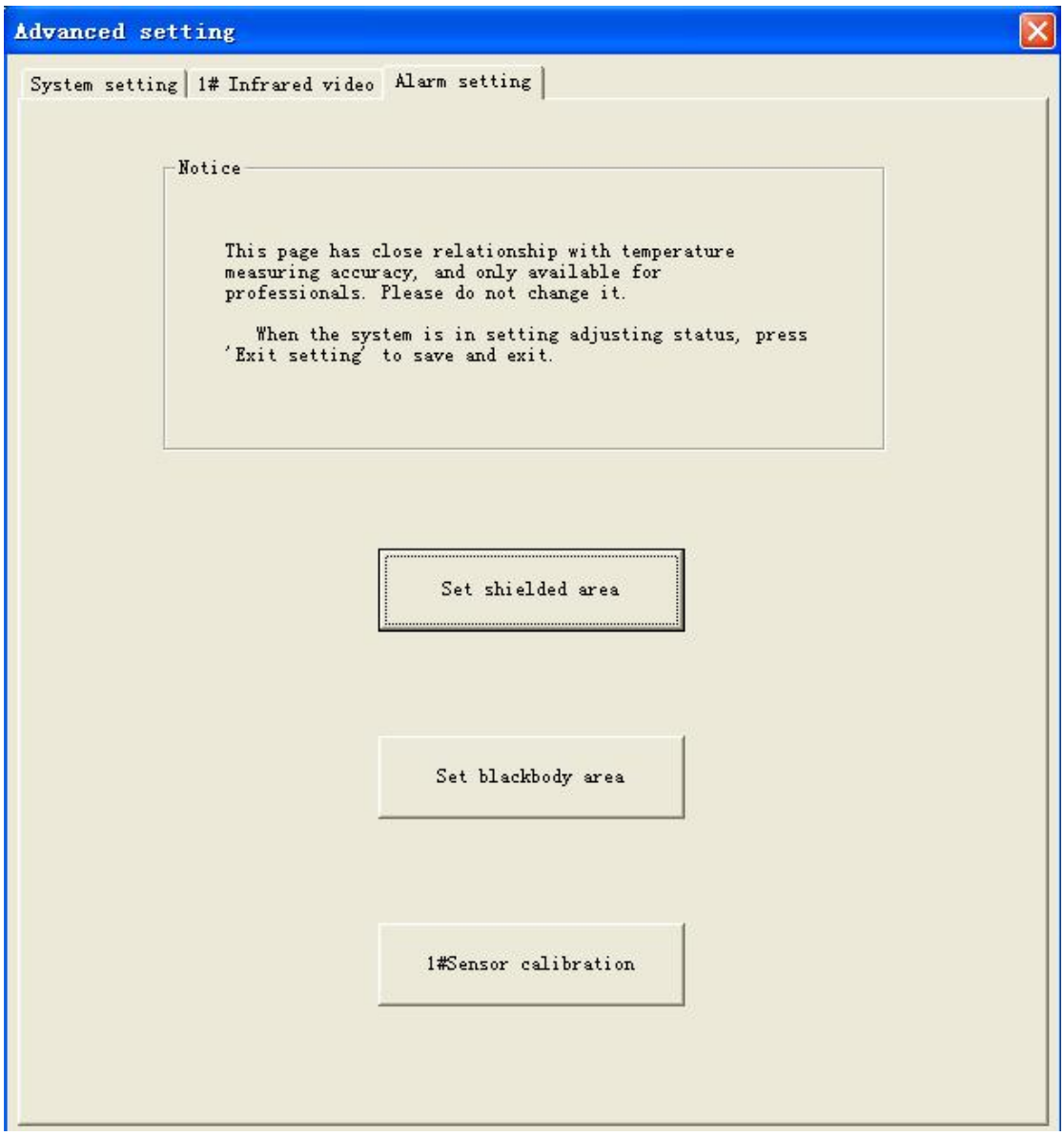


Fig3.4 Select the “1#Sensor calibration” Button

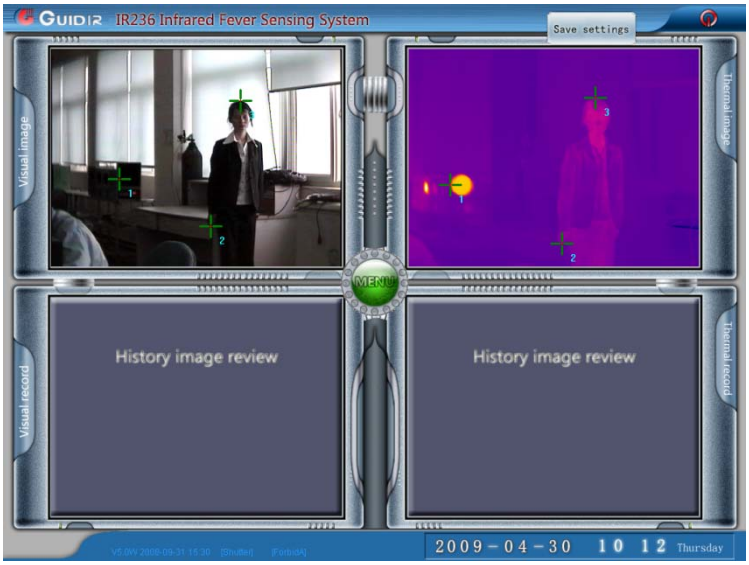
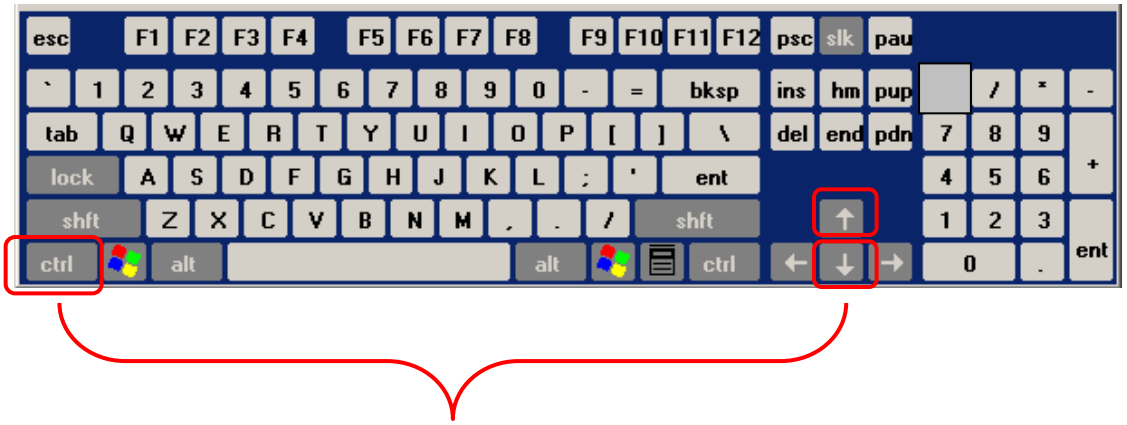


Fig3.5 Move and Locate Cursors for Matching

5. Adjust Measuring Temperature:

Turn the IR thermal imager to a person and obseve his face temperature. If the temperature is not 36.2°C, then adjust it by pressing the “Ctrl + Up” or “Ctrl + Down” until the temperature arrives 36.2°C.

Ctrl + Up: temperature increase by 0.1°C when each pressing
Ctrl + Down: temperature decrease by 0.1°C when each pressing



Important parts in User Manual:

1. page 10: chapter 2 IR236 installation instructions 1. Overview of the IR236 systems.
2. page 38: 3.10 quick guide to use the software.
3. Page 45: 4.4.1 Shutter measurement mode
4. page 46: 4.4.2 Blackbody mode (only use it when temperature error is unreasonable).
5. page 52: 4.6.1 Set shield area (if there is any certain high-temp object in scene, you just set it as shield area. The system will not alarm even its temperature is above the alarm temperature).

There are 5 packages:

1 package for PC main frame
1 package for PC monitor
1 package for thermal camera
1 package for blackbody (Will come soon!)
1 package for cables