



*170 Years of
Continued Innovation*

HSI3000 Overview

*The World's Finest Manufacturers of
Temperature, Pressure & Humidity,
Test and Calibration Instruments*

May, 2007

Before You Begin...

- Check that your battery has been inserted:
- Also check that it has been charged:
- Remove the lens cap:



Power Button:

Power Button:

Press and hold for
2 seconds to
switch on / off.



Calibration



When switching on, the HSI3000 displays the time and date. If this is not correct, set it immediately (in the menus) so saved images are date-stamped correctly.

The software version number is also displayed



Default Screen

- Once the imager has begun imaging, the screen will be displayed with the following features (clockwise from top left):
- SP+ measurement
- Battery indicator
- Emissivity value
- Temperature units
- Max span value
- Thermometer
- Min span value
- 4 Hot Button labels
- SP+ cursor (center)



Controls:

- Hotkey 1:
 - Controls the 2x digital zoom function.
- Hotkey 2:
 - Controls the freeze and save image functions.
- Hotkey 3:
 - Dictates the operation of the directional buttons (up, down, left & right).

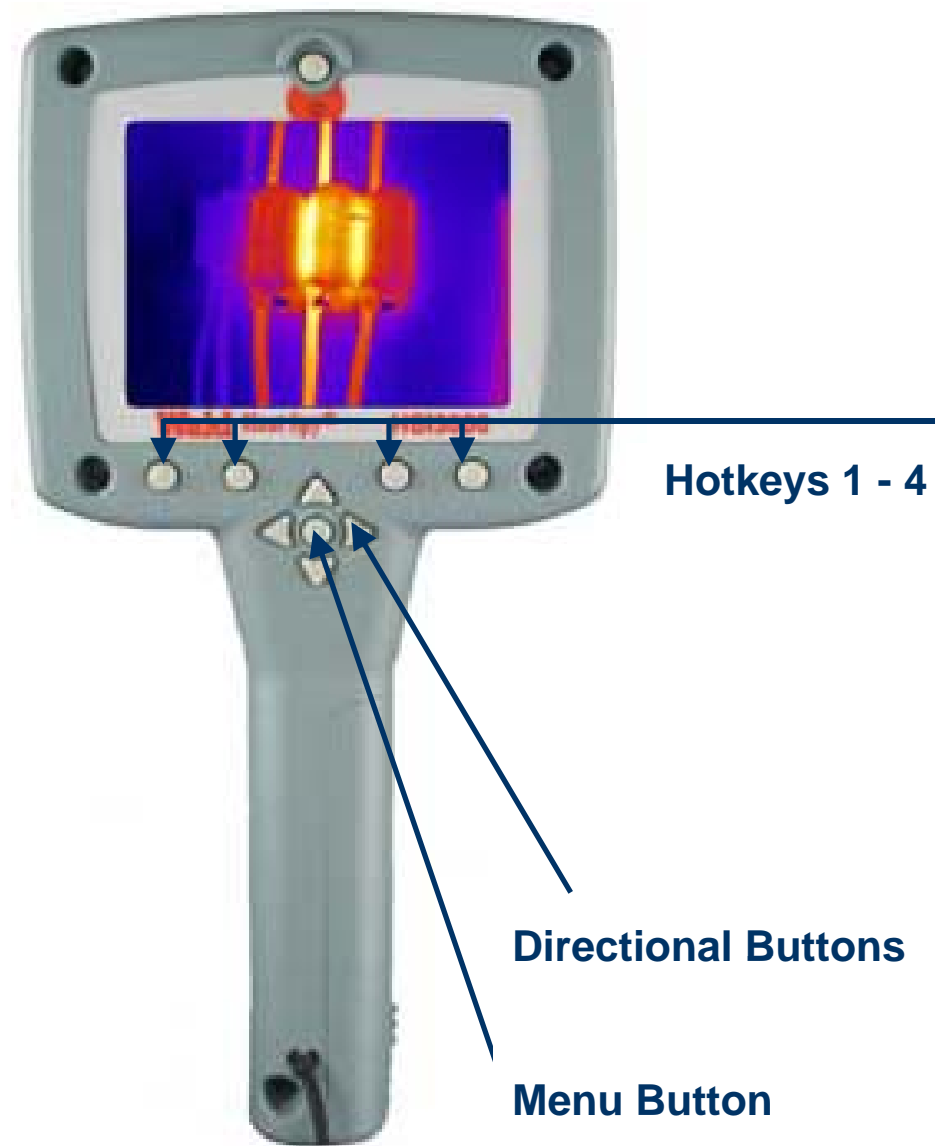
Controls

- Hotkey 4:
- Toggles between auto & manual modes.

- Menu Button:
- This button opens the main menu.

- Directional Buttons:
- Depending on the selection of hotkey 3, these buttons move the selected measurement spot, adjust the level and span control in manual mode or the brightness and contrast of the auto mode.

Controls



Focusing

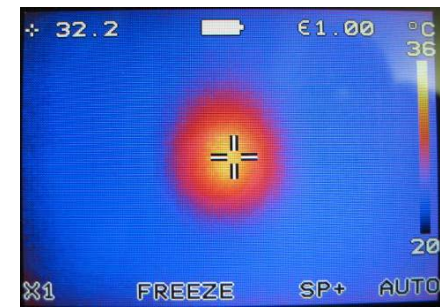
It is necessary to focus the HSI3000 on your target object before using it for measurement.



Focused



Unfocused



Freeze/Save

- Press the “freeze” button to stop the live image.
- Now is a good opportunity to move the measurement cursor to areas of interest using the directional buttons.
- You may want to add a second cursor, edit the color palette, use area analysis, etc...
- In this case, open the menu.



Menus

- Press the “menu” button to open the main menu
- There are 5 submenus:
 - Measurement Options
 - Camera Settings
 - Image Browser
 - Set Time & Date
 - Language



Menu Button

Submenus

- Emissivity
- Reflected Temperature Compensation
- 2nd Cursor (Spot X)
- Temperature Units °C, °F, K.
- Area Analysis
- Auto hot & cold spot tracker
- Color Palette (4 palettes)
- Auto Power Shutdown
- Camera Reset
- Image Only
- Brightness & Contrast (for auto mode)
- Cursor Reset (to center)
- Load Stored Image (& edit stored image)
- Set Time & Date
- Date Format (US/ROW)
- Time Format (12/24 hour)
- Language



Manual Mode

- You may also want to adjust the temperature level and span.
- In this case press hot button 4 to switch from auto to manual mode.
- Press up and down to increase / decrease the level. Press left and right to adjust the span.



Save Image to PC

To save an image to PC you have 2 options:

1. USB cable
2. SD card & card reader

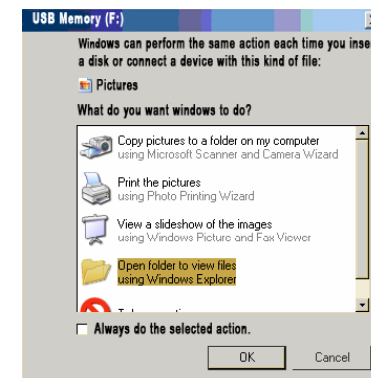


Image Analysis

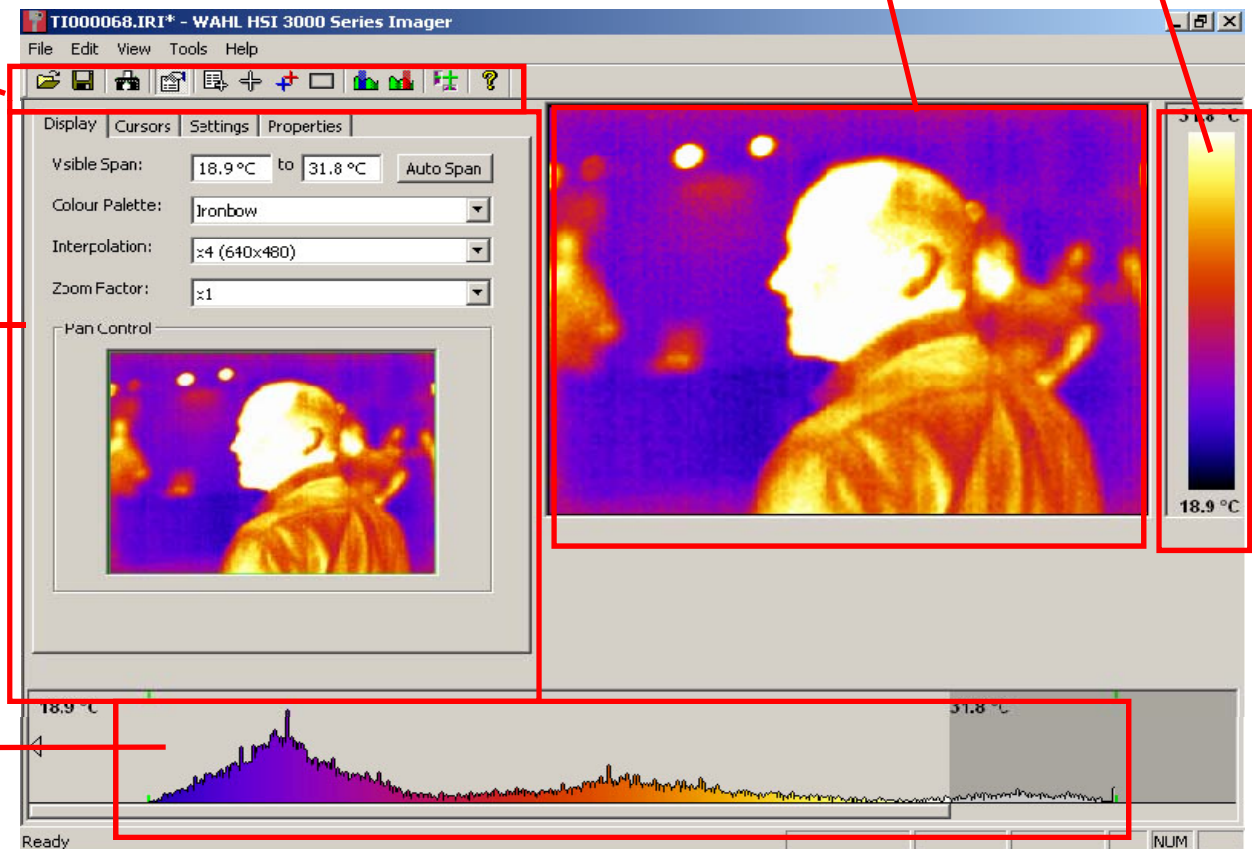
Image

Thermometer

Menu

Options Window

Thermal Histogram

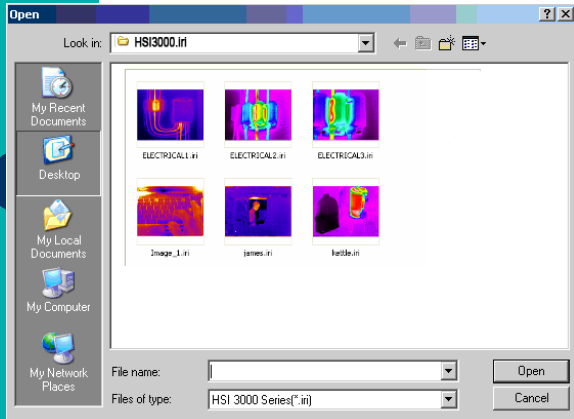


Menu Items

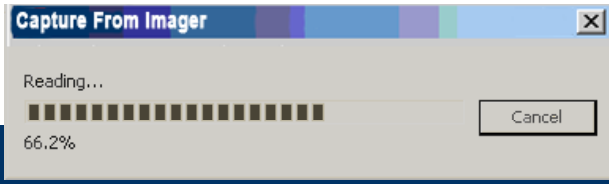


1 2 3 4 5 6 7 8 9 10 11 12

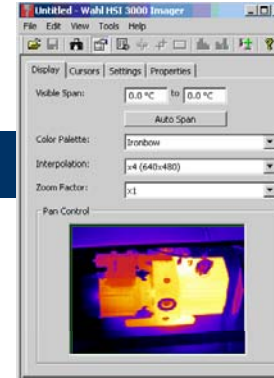
1 & 2



3



4



5

ID	Temp	Pos
Cursor 1	44.5 °C	(64,95)
Cursor 2	46.0 °C	(78,57)
Cursor 3	0.0 °C	(0,0)
Cursor 4	0.0 °C	(0,0)
Cursor 5	0.0 °C	(0,0)
Cursor 6	0.0 °C	(0,0)
Cursor 7	0.0 °C	(0,0)
Cursor 8	0.0 °C	(0,0)
Cursor 9	0.0 °C	(0,0)
Cursor 10	0.0 °C	(0,0)
Temp Diff -1.5 °C (C1-C2)		
Image Info		
Hot	47.4 °C	(64,78)
Cold	33.7 °C	(24,30)
Temp Diff	13.7 °C	(H-C)
Average	40.0 °C	
Area Select		
Max	47.4 °C	
Min	35.0 °C	
Average	44.0 °C	

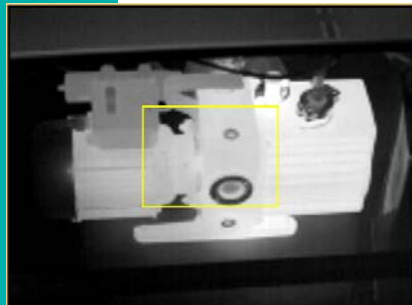
6



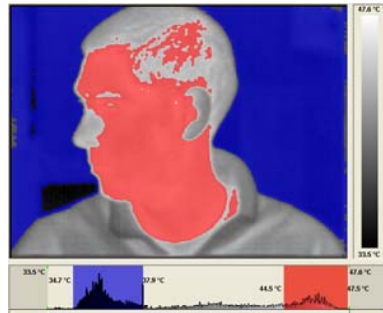
7



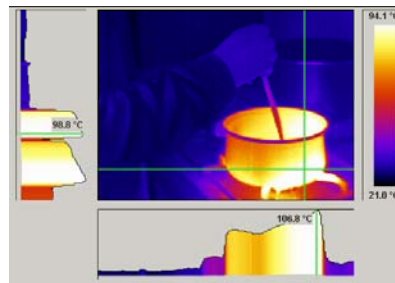
8



9 & 10



11



12





The End

