

QuickStart: Electrophysics HOTSHOT HD



- MEMORY:** Insert Compact Flash memory card into the slot under the rubber cover on top of the camera.
- POWER:** Insert a charged battery into the battery bay on the bottom of the camera.
- START:** Close the lens cap firmly over the lens then push and hold the *Power Button* on the top of the camera (for one second). The lens cap needs to be in place to perform a NUC, an initial internal calibration. Press OK when a dialog box asks if the lens cap is closed.
 - The touch screen display will turn on and over the next minute or so the camera will undergo a series of boot up and test procedures.
 - You should then see real time video image in the default "Start-up Screen" display.

Note: If the camera is not in the full infrared image mode, (displaying the **IR** over the Display Icon on the Shortcut Menu), tap the Display Icon until the **IR** is displayed.



(The entire display is a touch screen, buttons and menu items can be activated by **touching** or **tapping** with either the provided *Stylus* or your finger)

- FOCUS:** A properly focused image is achieved by manually turning the *Focus Ring* either clockwise or counterclockwise.
- AUTO ADJUST IMAGE:** (Level and Span) The camera will start in one of the default Auto modes (AGC/ Auto Gain Control) mode. The AGC button on the Shortcut Bar will display which of many auto modes you are in. Tap the AGC button until the full red sign wave is displayed on the button.
- MANUAL ADJUST IMAGE:** (Level and Span) Tap on either the *Min. temp.* or *Max temp.* displayed on either side of the *Thermal Span/Palette Indicator*.



- Arrows will appear above and below each number as well as *Slider Bars* on the upper and right side of the infrared image.



- Adjust Span by moving the *Joystick* left to decrease or right to increase span size.
- Adjust Level by moving the *Joystick* up to raise or down to lower the span.
 - If the *Slider Bars* disappear (15-20sec), moving the *Joystick* will make them reappear.
- These Min/Max values can be changed individually by taping the small up/down arrows on their display.
- While in the Manual mode a "ONE TIME" auto adjust can be performed, without exiting Manual mode, by pressing and releasing the *Joystick Button* straight in. Using Manual mode with the one time auto feature is the mode most often used.

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7. **PAUSE IMAGE:** Pause or Freeze the image by momentarily pressing the front *Trigger Button*. (If this is not an image you desire to save, abort the save by pressing the *Trigger Button* again returning to a live image)
8. **SAVE IMAGE:** First, freeze the image as above.
 - Two small computer disc icons will appear in the lower portion of the screen:
 - Yellow Icon for Detailed File Save (you will be prompted for additional image identification information)
 - Green Icon for Express (quick) Image Save (image is saved without further input)
 - Now to save the Paused/Frozen image move the joystick either left or right, determined by the position of the desired Save Mode's Icon. In this case right for Express (green) or left for Detailed Save (yellow)
9. **CHANGE PALETTE:** In any mode, tapping the palette color indicator bar will change the image color palette to the next choice.



10. EMISSIVITY:

Global Emissivity (Applies to line, area, and span values) is adjusted in Object Parameters:

- Tap Menu, then under the Measure column tap the Object Parameters Icon.
- Tap and change the Emissivity value using the stylus.



Spot Emissivity (Applies only to individual spot temperature points) must be adjusted in Tools.

- Tap Menu, then under the Measure column tap the Tools Icon.
- Tap and change the Emissivity value using the stylus for each individual spot.

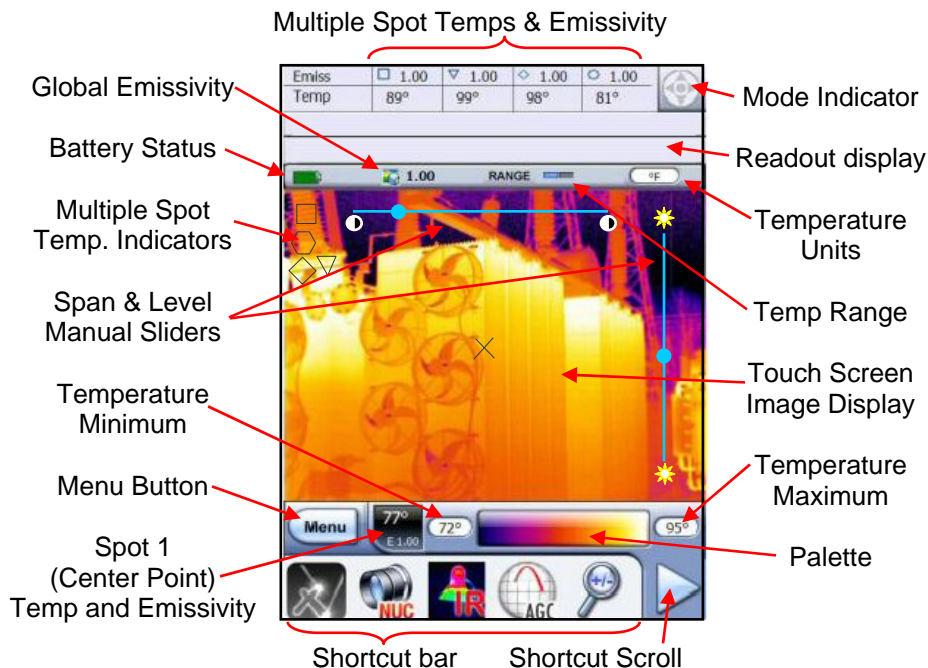


11. BACKGROUND COMPENSATION: (Reflective Temperature)

- Tap Menu, then under the Measure column tap the Object parameters Icon.
 - Make sure the "Use Camera Temperature" box is unchecked and has a red X in the box indicating that you are not using ambient camera temperature.
 - Now tap and change the Compensation Value with the stylus.



Multiple Spot Temps & Emissivity



Hotshot HD Series

IFOV = .68 mRad (Theoretical with 640x480 Detector and standard 25°x18° lens)



Detect 1in. target @ 122ft.