

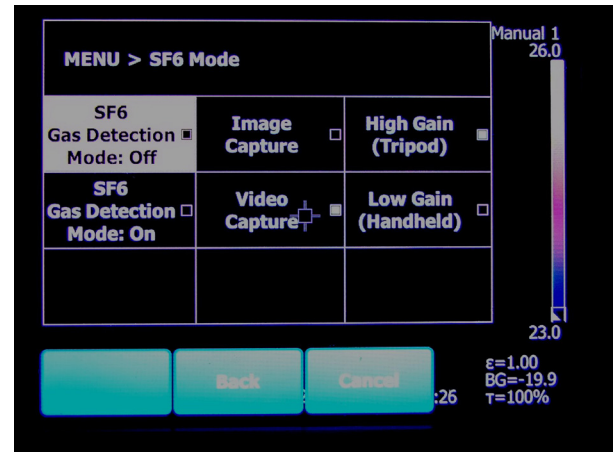
QuickStart FLUKE Series Ti450 SF₆ Gas Detection Operation Only



- 1. MEMORY:** Insert SD memory card into the slot under the rubber cover on the side of the camera.
- 2. POWER:** Insert a fully charged battery into the base of the hand grip. The battery life is indicated in the lower left corner of the LCD display. You can also press and hold the battery symbol on the side of the battery.
- 3. START:** Press the Power button until you hear an audible tone signaling camera startup.
 - Swing the attached lens cover up and lock in the open position on the top of the camera.
 - The LCD display will turn on and you will see the default start up screen (as above) showing a live infrared image.
 - To turn the camera off, press the Power button until an audible tone signals it is powering down.
- 4. FOCUS:** Focus is either manual or automatic, and is user selectable (automatic recommended for SF₆ gas modes).
 - To manually focus, adjust the focusing ring either clockwise or counter clockwise to optimize image focus.
 - Automatic focus is laser enhanced. To utilize the laser assisted auto focus, depress the laser assisted focus trigger while aiming the laser pointer at the object of interest. While holding the camera steady, release the trigger. If there is too much movement of the laser during the auto focusing operation, an Excessive Laser Movement warning may appear on the screen.
- 5. PALETTE:** From the home screen, depress the F2 button. Then using either the directional arrow buttons or the touchscreen, select Image, then select Palette. Select Set Palette, and then using either the up/down directional arrow buttons or the touchscreen scroll through the palette selections. To select a particular palette, either depress the F1 button (done) twice or click the selection on the touch screen and then select Done.
- 6. IR Fusion:** From the home screen, depress the F2 button. Then using either the directional arrow buttons or the touchscreen, select Image, then select IR-Fusion. For full screen IR only gas Imaging select *IR 100%*. For Picture in Picture (IR within visual imaging) and then using either the up/down directional arrow buttons or the touchscreen scroll through the selections and select *PIP 100%*. Note it not recommended to select any % other than 100%. Only select *Visual* if you need to obtain visual orientation of the camera.

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- 7. SF₆ GAS MODE** From the home screen, depress the F2 button. Then using either the directional arrow buttons or the touchscreen, select *SF₆ Gas Detection Mode*, then select *SF₆ Gas Detection Mode On*.
- 8. SF₆ HIGH GAIN or LOW GAIN:** For larger leaks under ideal conditions you may select *Low Gain (Handheld) Mode*. For small leaks or under less than ideal conditions tripod mount the camera and select *High Gain (Tripod) Mode*.
- 9. SF₆ VIDEO or IMAGE CAPTURE MODE:** In SF₆ menu select either *Image Capture* to set the recording mode to record a single still image or *Video Capture* to set the recording mode to record a video sequence. See Paragraphs 10 and 11 to initiate recording.

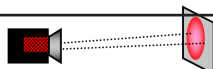


- 10. SINGLE IMAGE RECORDING:** When the camera has been set to Image Capture Mode, live images are paused by depressing the green trigger once. Once an image has been paused, the options are given to *Save*, *Edit* or *Cancel*. Selecting *Cancel* returns the imager to live operation. To save the image, either depress the F1 button or select *Save* on the touch screen. Select *Edit* to add an audio clip, a photo-note or change palette, or image fusion mode before saving the image.
- 11. VIDEO IMAGE RECORDING:** When in SF₆ video image recording mode image recording is started depressing the green trigger once to prepare to start recording (timer reads 00:00) and then a second time to actually start recording. The timer will start advancing one second at a time. To stop or pause recording press the green trigger. Once paused, the options are given to *Done* or *Cancel*. To continue recording press the green trigger. To save the recording press *Done* and then press *Save*. Selecting *cancel* will take you to a confirmation menu to *Cancel the recording and Lose Video*.
- 12. RECALL A STILL IMAGE:** Depress the F2 button, and either using the directional buttons (< and >) or by interfacing the touch screen, select *Memory*. In the Memory menu, use the directional buttons or touch screen to select an image with an *.IS2* file extension, then either double-click on the image via the touchscreen or select *OK* to open the selected image. Press F2 *Back* to return to the memory Menu or F3 *Cancel* to return live.
- 13. RECALL A VIDEO:** Depress the F2 button, and either using the directional buttons (< and >) or by interfacing the touch screen, select *Memory*. In the Memory menu, use the directional buttons or touch screen to select an image with an *.IS3* file extension, then either double-click on the image via the touchscreen or select *OK* to open the selected image. A video sequence will be recalled and the video menu will appear. Press F2 *Back* to return to the memory Menu or F3 *Cancel* to return live.

Ti-450 SF₆ with Standard Lens

IFOV = 1.31 mRad (Theoretical with 320 x 240 Detector and standard 24°x17° lens)  Detect 1in. target @ 64ft.

Ti-450 SF₆ with Tele2 Lens

IFOV = 0.63 mRad (Theoretical with 320 x 240 Detector and standard 11.5°x8.7° lens)  Detect 1in. target @ 132ft.