

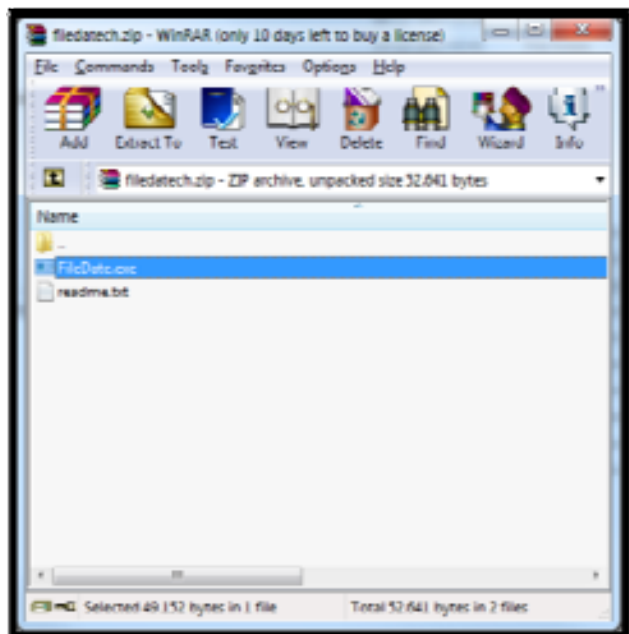


How to permanently upgrade your Flir i3 or i5 to i7 specs! & add extra measurement menu.

120x120 pixels for the 1.Gen. & 140x140 pixels for the 2. Gen. Flir iX

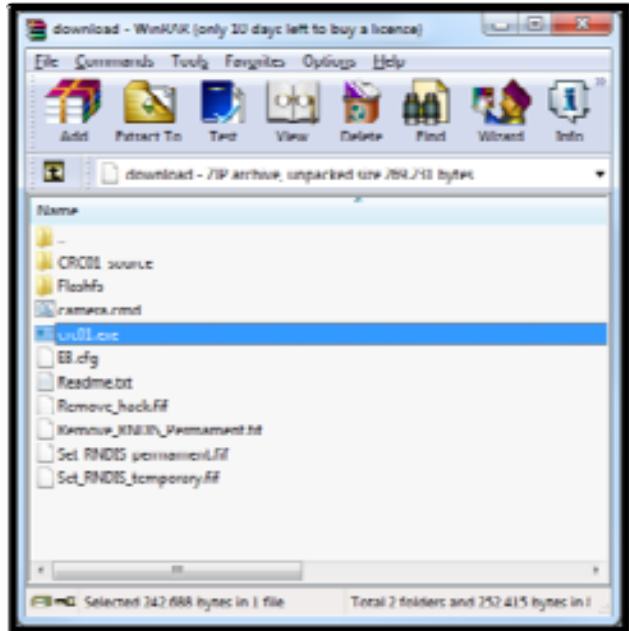
Step-by-step guide:

1. Download Flir device drivers from: www.flir.com or get it from the Flir software CD provided & install it on your Windows computer.
2. Download FileDate Changer from: <http://www.nirsoft.net/utils/filedatech.zip> a.
Open the downloaded file using e.g. WinRAR or WinZIP
b. Extract the 'FileDate.exe' file to your documents folder.



3. Download Notepad++ from: <http://notepad-plus-plus.org/download> & install it.
4. Download Total Commander from <http://www.ghisler.com/download.htm> & install it.

5. Download Mike's CRC01 tool from: <http://www.eevblog.com/forum/testgear/flir-e4-thermal-imaging-camera-teardown/?action=dlattach;attach=66387>
 - a. Open the downloaded file using e.g. WinRAR or WinZIP
 - b. Extract the 'crc01.exe' file to your documents folder.



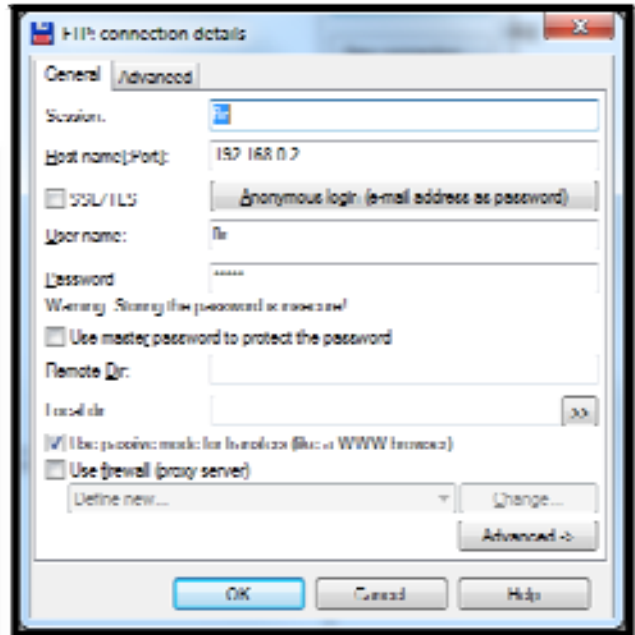
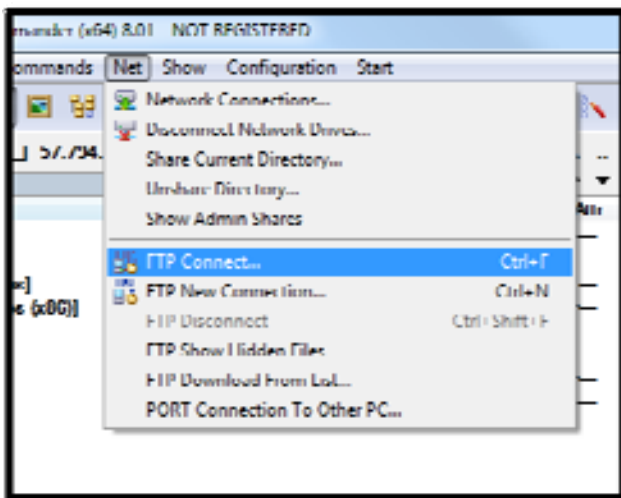
6. Turn on your flir i3 or i5 camera.
7. Connect your Flir camera to the computer using the USB-cable, let Windows to complete the driver installation.
8. After Windows has completed installing the drivers, disconnect the USB-cable from the camera.
9. Press menu button (left) once on your camera.
10. Depress gallery (play) button for 5 seconds...

Now you should have the gray 'diagnostic' screen open, release the button.

11. Press left menu button (Options)
12. Select USB mode.
13. Then change USB mode from MSD to RNDIS.
14. Now reconnect your Flir camera to the computer using the USB-cable, let Windows to complete the driver installation.

15. Now start the Total Commander app.

- a. Press 'Net' on top menu bar & select 'FTP Connect...' from the drop menu
- b. Press 'New connection'
- c. Name the new connection (Session) e.g.: flir
- d. Enter host name: 192.168.0.2
- e. Enter user name: flir
- f. Enter password: 3vlig
- g. Select (checkbox) 'Use passive mode for transfers (like a WWW browser)'
- h. The 'OK' to save.

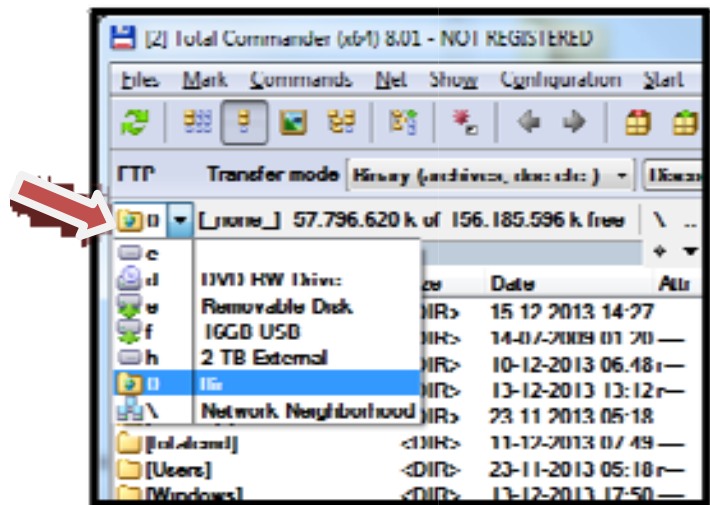


- i. Press 'Net' on top menu bar & select 'FTP Connect...' from the drop menu
- j. And press 'Connect'

Now there should pop a new window & disappear after a second & two.

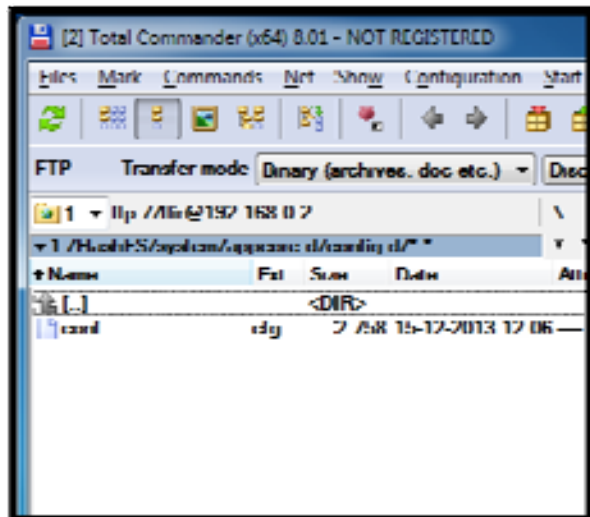
You are now connected to the camera ☺

16. Now select '0' flir from the left drop menu, see the red arrow below.

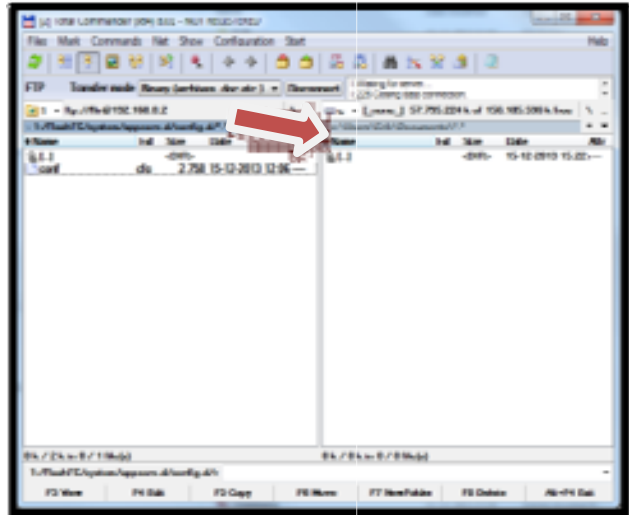


17. Now open the folder: FlashFS/system/appcore.d/config.d/

In that folder there is a file called: 'conf' with the extension .cfg



18. Open your documents folder in the right side window, see the red arrow below.
19. Now drag-and-drop (copy) the 'conf.cfg' to your documents folder.
20. But don't close the app yet.



21. Now browse to your documents folder in Windows's own regular explorer.
 - a. Select the newly copied 'conf.cfg' file & save a copy of the file (original backup) to a save media.
22. Start the Notepad++ & open the copied 'conf.cfg' file.
23. Delete the last line with the: **# CRC01 XXXXXXXXX**
24. Now select all the code, except the last line with the: **# ID XXXXXXXXXX** & delete the code.
25. Now insert the new code below (next page):

```

#
# Prodconf - Measurement active + 4 mbox's and 4 spots + 1 isotherm
# + radiometric store, compatible radiometric format
#
.caps entry
.caps.config entry
.caps.config.name text "i7_2012"
.caps.config.revision text "1.0"
.caps.config.image entry
.caps.config.image.sysimg entry

.caps.config.image.sysimg.measureFuncs entry
.caps.config.image.sysimg.measureFuncs.enabled bool true
.caps.config.image.sysimg.measureFuncs.diff entry
.caps.config.image.sysimg.measureFuncs.diff.enabled bool true
.caps.config.image.sysimg.measureFuncs.diff.maxCount int32 1
.caps.config.image.sysimg.measureFuncs.diff.calcMask int32 65526
.caps.config.image.sysimg.measureFuncs.isotherm entry
.caps.config.image.sysimg.measureFuncs.isotherm.enabled bool true
.caps.config.image.sysimg.measureFuncs.isotherm.calcMask int32 20
.caps.config.image.sysimg.measureFuncs.isotherm.dual bool false
.caps.config.image.sysimg.measureFuncs.isotherm.fixScale bool false
.caps.config.image.sysimg.measureFuncs.isotherm.interval bool true
.caps.config.image.sysimg.measureFuncs.isotherm.invInterval bool false
.caps.config.image.sysimg.measureFuncs.isotherm.maxCount int32 1
.caps.config.image.sysimg.measureFuncs.mbox entry
.caps.config.image.sysimg.measureFuncs.mbox.enabled bool true
.caps.config.image.sysimg.measureFuncs.mbox.calcMask int32 1924
.caps.config.image.sysimg.measureFuncs.mbox.maxCount int32 4
.caps.config.image.sysimg.measureFuncs.reftemp entry
.caps.config.image.sysimg.measureFuncs.reftemp.enabled bool true
.caps.config.image.sysimg.measureFuncs.reftemp.calcMask int32 1924
.caps.config.image.sysimg.measureFuncs.reftemp.maxCount int32 1
.caps.config.image.sysimg.measureFuncs.spot entry
.caps.config.image.sysimg.measureFuncs.spot.enabled bool true
.caps.config.image.sysimg.measureFuncs.spot.calcMask int32 514
.caps.config.image.sysimg.measureFuncs.spot.maxCount int32 4
.caps.config.image.services entry
.caps.config.image.services.store entry
.caps.config.image.services.store.enabled bool true
.caps.config.image.services.store.radiometric entry
.caps.config.image.services.store.radiometric.enabled bool true
.caps.config.image.services.store.incompatible entry
.caps.config.image.services.store.incompatible.enabled bool false
.caps.config.image.services.store.incompatible.level int32 0
.caps.config.image.settings entry
.caps.config.image.settings.enabled bool true
.caps.config.image.settings.resIR int32 144
.caps.config.image.settings.fpgaResolution entry
.caps.config.image.settings.fpgaResolution.enabled bool true
.caps.config.image.settings.fpgaResolution.resIR int32 144

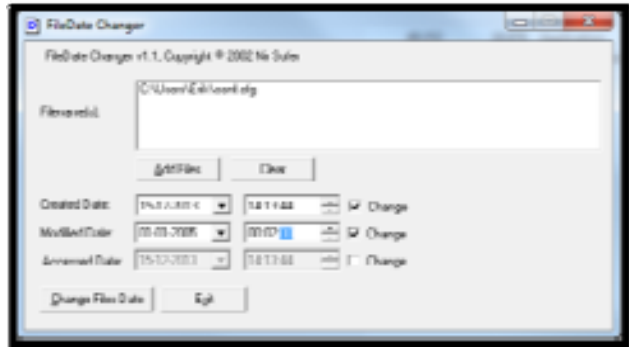
```

```
.caps.config.hw entry  
.caps.config.hw.sdcard entry  
.caps.config.hw.sdcard.enabled bool true  
# ID XXXXXXXXXX
```

26. Now save the modified code as 'conf.cfg' file (overwrite).

27. But don't close the app yet.

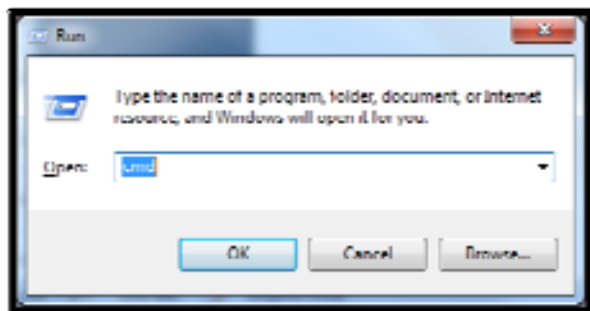
28. Start the FileDate app & drag-and-drop the modified 'conf.cfg' file
- Change 'Modified Date:' to 01-01-2005 and the time to 00:02:00
 - Press 'Change Files Date'
 - But don't close the app yet.



29. Press 'Windows key + R' to start 'Run command'



30. Type: 'cmd' then press 'OK' to start windows command.



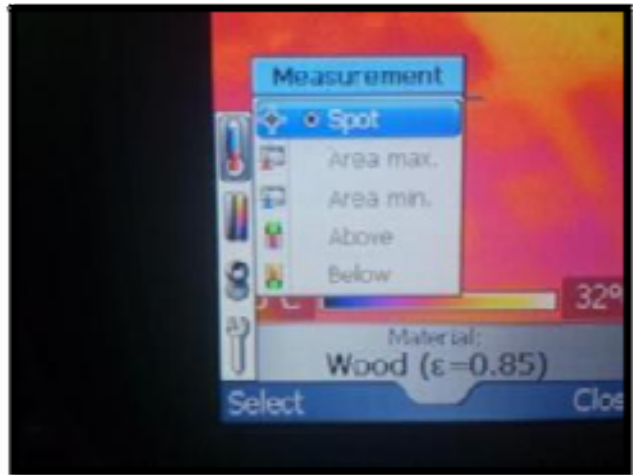
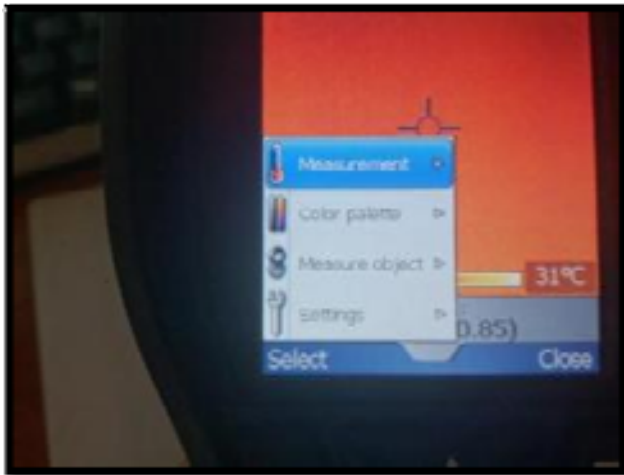
31. Now the Windows command is open.
 - a. Open your documents folder in the window command by typing e.g.: 'cd documents'
 - b. When you are in the documents folder, type: 'crc01 conf.cfg' this will run Mike's CRC01 tool & generate a new line: '# CRC01 XXXXXXXX' (the letters are case sensitive)
32. Return to the Notepad++ app & reopen the conf.cfg
 - a. Now insert the line generated by Mike's CRC01 tool in the last line.
 - b. Save the file (overwrite).
33. Return to the FileDate app & repress the 'Change Files Date'.
34. Close the FileDate app.
35. Return to the Total Commander app & drag-and-drop the modified conf.cfg to the camera.
 - a. In Total commander browse back to FlashFS/system/ & create a new folder by pressing F7 on your keyboard.
 - b. Name the new folder as: 'gui.d'
 - c. Open the new folder (FlashFS/system/gui.d/)
 - d. Create another folder inside the /gui.d by repressing F7.
 - e. Name the new folder as: 'config.d'
 - f. Open the new folder (FlashFS/system/gui.d/config.d/)
36. In windows explorer copy the 'conf.cfg' & rename the copy to: 'gui.cfg'
37. Return to the Notepad++ & open the new 'gui.cfg' file
 - a. Delete the last line with the: **# CRC01 XXXXXXXX**
 - b. Now select all the code, except the last line with the: **# ID XXXXXXXX** & delete the code.
 - c. Now insert the new code below:


```
#
# gui.cfg - i7
#
.caps entry
.caps.config entry
.caps.config.name text "i7_2012"
.caps.config.revision text "1.0"
.caps.config.menu entry
.caps.config.menu.enabled bool true
.caps.config.menu.measurementMenuActive bool true
.caps.config.menu.measureAreaSubMenuActive bool false
# ID XXXXXXXX
```
 - d. Save the modified file (overwrite).
38. Start the FileDate app & drag-and-drop the modified 'gui.cfg' file
 - a. Change 'Modified Data:' to 01-01-2005 and the time to 00:02:00
 - b. Press 'Change Files Date'
 - c. But don't close the app yet.

39. Start the Windows command (Windows key + R) then type: 'cmd' then 'OK'
 - a. Open your documents folder in the window command by typing e.g.: 'cd documents'
 - b. When you are in the documents folder, type: 'crc01 gui.cfg' this will run Mike's CRC01 tool & generate a new line: '# CRC01 XXXXXXXX' (the letters are case sensitive).
40. Return to the Notepad++ app & reopen the gui.cfg
 - a. Now insert the line generated by Mike's CRC01 tool in the last line.
 - b. Save the file (overwrite).
41. Return to the FileDate app & drag-and-drop the modified 'gui.cfg' file
 - a. Change 'Modified Data:' to 01-01-2005 and the time to 00:02:00
 - b. Press 'Change Files Date'
42. Return to the Total Commander app & drag-and-drop the modified gui.cfg to the camera in (FlashFS/system/gui.d/config.d/)
 - a. In Total Commander press disconnect
 - b. Remove the USB-cable from the camera.
 - c. Remove the battery cover by popping it off with a small flat screwdriver.
 - d. Press the small reset button (hard to see, use a flashlight), see the red arrow below.
 - e. Now the camera reset & shut off.
 - f. Turn on your camera, longer restart... (cold restart)



Congratulations! You have now permanently upgraded your i3 or i5 to i7 specs & added measurements menu.



Cheers! ☺
Erik