

DOCUMENT TITLE: **2475/FLR FLUORESCENCE DETECTOR FIRMWARE AND SERIAL NUMBER DOWNLOAD STATION**

SYSTEM/ASSEMBLY NAME: **2475 FLUORESCENCE DETECTOR**

PART NUMBER AFFECTED **186002475, 800000148, 186247500, 700002035, 186015029, 800000235, 700003707, 186017006, 800000456**

TEST EQUIPMENT NAME: **2475/FLR FLUORESCENCE DETECTOR FIRMWARE AND SERIAL NUMBER DOWNLOAD STATION**

TEST EQUIPMENT NUMBER: **2475FLRDWEX**

TEST SOFTWARE:



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DATE: **April 01, 2002**

REVISED BY: **TYLER MODELSKI**

DATE: **January 05, 2016**

EQUIPMENT REQUIRED

Quantity	Part Number	Description
1	WX2155	2475/FLR Fluorescence Detector Firmware and Serial Number Download Station

DISPOSABLES REQUIRED

Quantity	Part Number	Description
N/A	N/A	N/A

REFERENCE DOCUMENTATION

Document Number	Description
N/A	N/A

TEST SPECIFICATIONS

N/A

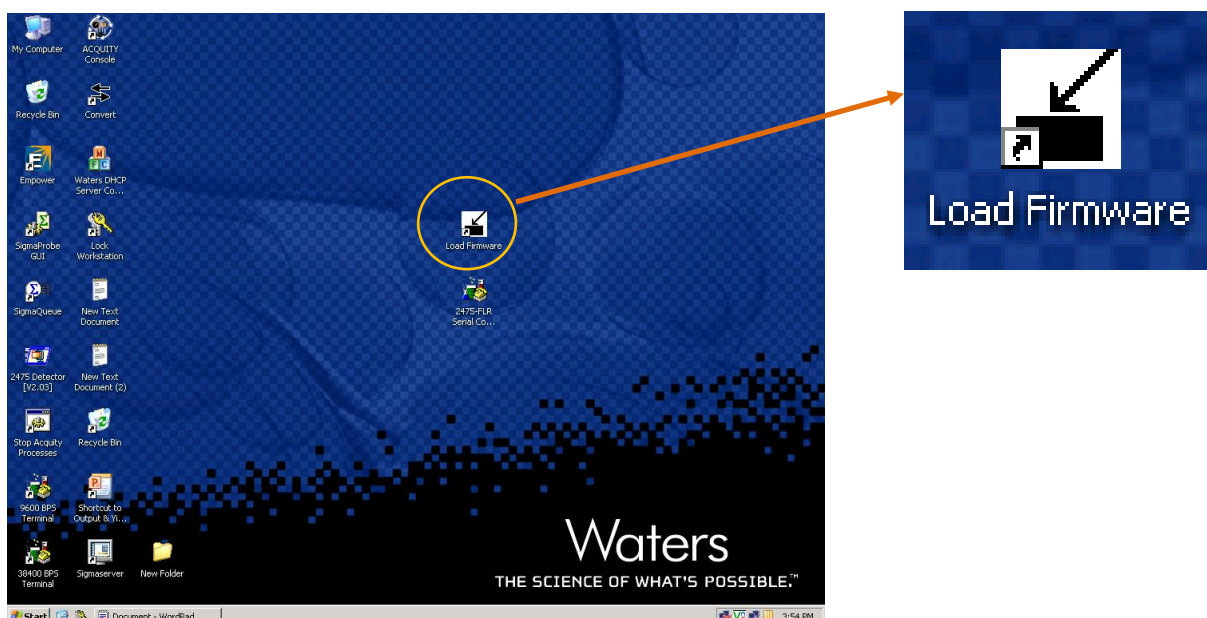
TEST PROCEDURE

1.0 Setup

- 1.1 Connect Ethernet cable to connector on rear of instrument marked **ETHERNET**.
- 1.2 Connect serial cable to 9-pin connector on rear of instrument marked **RS-232**.
- 1.3 Connect AC power cord to rear of instrument AC connector.

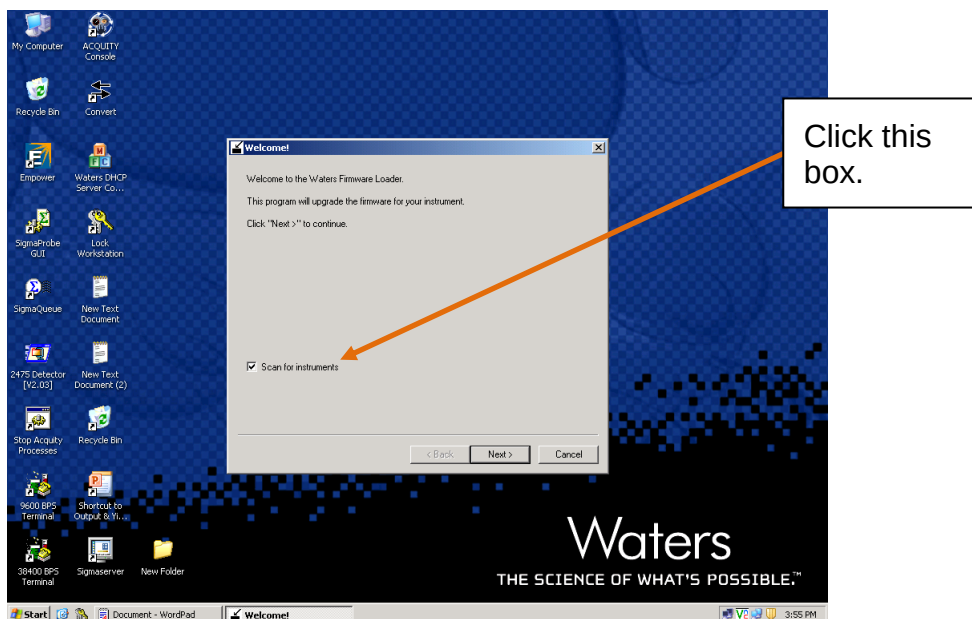
2.0 Firmware Download Procedure

- 2.1 If Tester PC is not powered up, turn on CPU and monitor.
- 2.2 Double click on the “Load Firmware” icon to open the firmware load software.



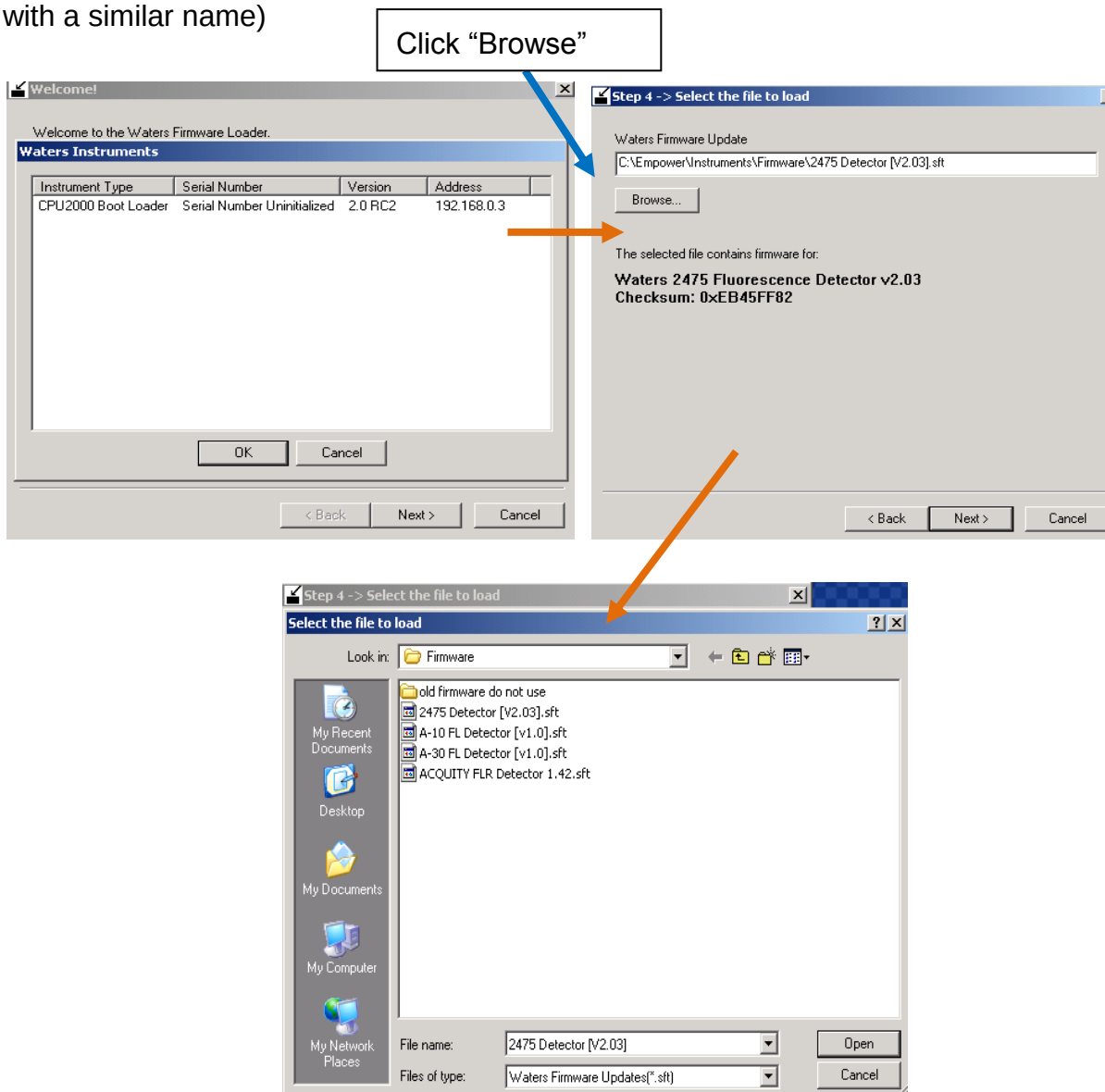
- 2.3 Turn on instrument power.

2.4 Click the “Scan for instruments” box and click “Next”.



2.5 The instrument window will appear and the instrument that is currently connected to the PC will appear in the instrument list. Select this instrument and press “OK”.

- 2.6 Next, click the “Browse” button and choose the relevant software for the instrument, either 2475 or FLR. (note that the Arc model may be a different revision of the 2475 firmware with a similar name)

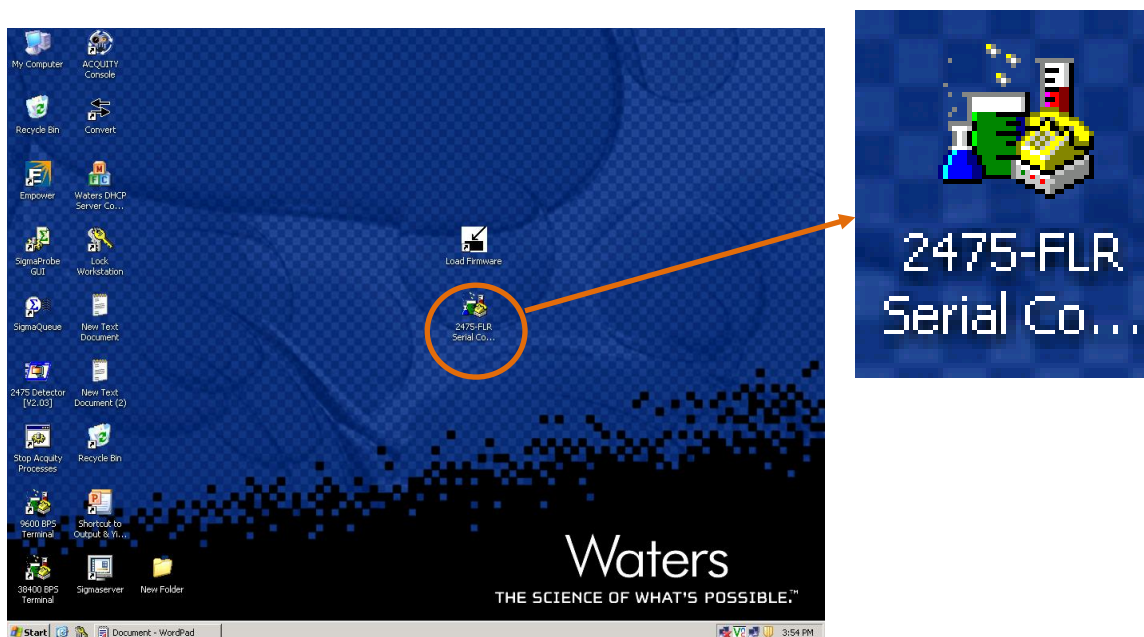


Note: If clicking the Browse button does not bring you to the proper location, the instrument firmware is usually located in C:\Empower\Instruments\Firmware, C:\Program Files\Waters Instruments\Firmware (Win XP or before), or C:\Program Files (x86)\Waters Instruments\Firmware (Windows 7)

- 2.7 Click “Next” and the software will start to load.
- 2.8 When the download is complete, the following message will appear, “Download complete, the instrument power must be cycled. Click “Finish” and turn off the power on the instrument.

3.0 Serial Number Load Procedure

3.1 Open hyper terminal by double clicking on the “38400 BPS Terminal” icon.



- 3.2 Turn the power on, on the instrument and wait for the instrument to boot up. If any alarms appear on the front panel of the instrument during boot up, press “Enter” to clear them.
- 3.3 When the instrument has booted up type the following, “setserialnumber”, press space and scan the serial number of the instrument, then press “Enter”.

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New Data Rate: 10
53.08: xGrating Wavelength Channel A to 350.0
53.41: eGrating Wavelength Channel A to 397.0
53.44: xGrating Wavelength Channel B to 350.0
53.46: eGrating Wavelength Channel B to 397.0
53.50: xGrating Wavelength Channel C to 350.0
53.52: eGrating Wavelength Channel C to 397.0
53.54: xGrating Wavelength Channel D to 350.0
53.58: eGrating Wavelength Channel D to 397.0
CmdMon is resumed. May need char to start.

CONSOLE:> 23.08: Offset measured Reference 94342 Sample 94360
23.49: Acqman is now initialized

CONSOLE:>
CONSOLE:> SETSERIALNUMBER D15475492G
CONSOLE:>
CONSOLE:> _
    
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4.0 ~~Contrast Test Procedure (2475 and Arc 2475 FLR)~~

- 4.1 ~~On the front panel of the instrument press, "Shift" and "6".~~
- 4.2 ~~Then press the arrow up or down to increase or decrease the contrast until the text on the screen is clearly visible.~~
- 4.3 ~~Press "Home" button to return to home screen.~~

5.0 ~~Key Pad Test Procedure (2475 and Arc 2475 FLR)~~

- 5.1 ~~On the front panel of the instrument press "DIAG", "7", "2" to open up the key pad test screen.~~
- 5.2 ~~Press every button on the key pad and verify that the corresponding light on the screen lights up.~~
- 5.3 ~~Press "Home" button to return to home screen.~~

6.0 ~~Screen Test Procedure (and Arc 2475 FLR)~~

- 6.1 ~~On the front panel of the instrument press "DIAG", "7", "3" to open up the screen test screen.~~
- 6.2 ~~Watch the screen test progress and verify that all pixels light up in the correct order.~~
- 6.3 ~~Leave power button "ON" after test. As power is automatically controlled on the final test station.~~
- 6.4 ~~Press "Home" button to return to home screen.~~