

TDRPlot SOFTWARE INSTALLATION AND INITIALISATION

1. OVERVIEW

The **TDR200** Reflectometers are supplied with a custom **Control Laptop PC** with pre-installed software. No further software installation is required other than posted upgrades. Note that the **TDRPlot** software is copy-protected and will only run on the PC to which it has been installed. If the software is to be installed on an additional PC, this will require an **unlock code** to be obtained for each new PC.

2. INSTALLATION INSTRUCTIONS USING DOWNLOAD FROM ROWTEST WEB SITE

If this software is to be **installed as an upgrade**, first rename your existing **C:\TDRPlot** folder to the new name **C:\TDRPlot-OLD** to avoid losing any existing data files etc. Note that software version 2 and 3 data files have a different format from those in version 1.

3. SOFTWARE DOWNLOAD

Download and save the compressed file folder **TDRPlotv3.02.zip** from the Rowtest Website at:

<http://www.rowtest.com/Support.html/TDRPlotv3.02.zip>

Unzip the compressed folder by double-clicking on it and selecting the "**open with Windows Explorer**" option.

Copy the uncompressed folder **TDRPlot** to the C: folder on the PC.

Open the **TDRPlot** folder and then open the **Program files** sub-folder.

If necessary, make a shortcut to the **TDRPlot.exe** file and move this shortcut to the **PC Desktop** (not required if upgrading on existing PC).

Close the **TDRPlot** folder.

If necessary, make a shortcut to the **TDRPlot** folder (not required if upgrading on existing PC).

8. Change the 2 **new shortcut icons** to the default versions. These can be found in the **C:\TDRPlot\Program files\icons** folder.

4. FTD DRIVERS

Install the FTD serial port drivers as follows:

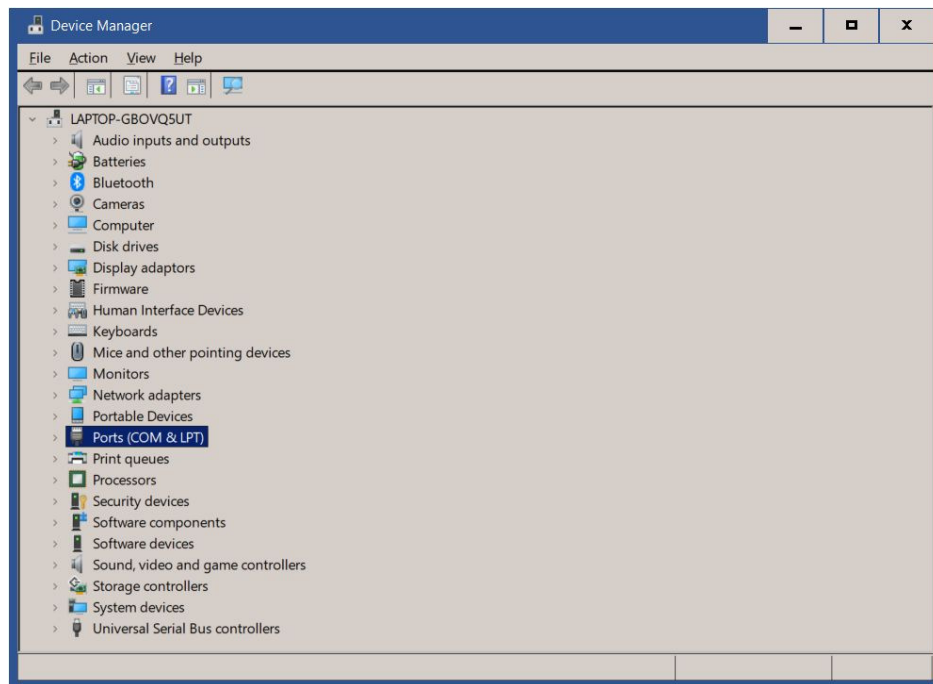
Open the **C:\TDRPlot\Program files\FTD\Virtual Com Port** folder.

Run the **CDM20814_Setup.exe** file. This will install the required driver files. Note that it may be necessary to run this program a second time.

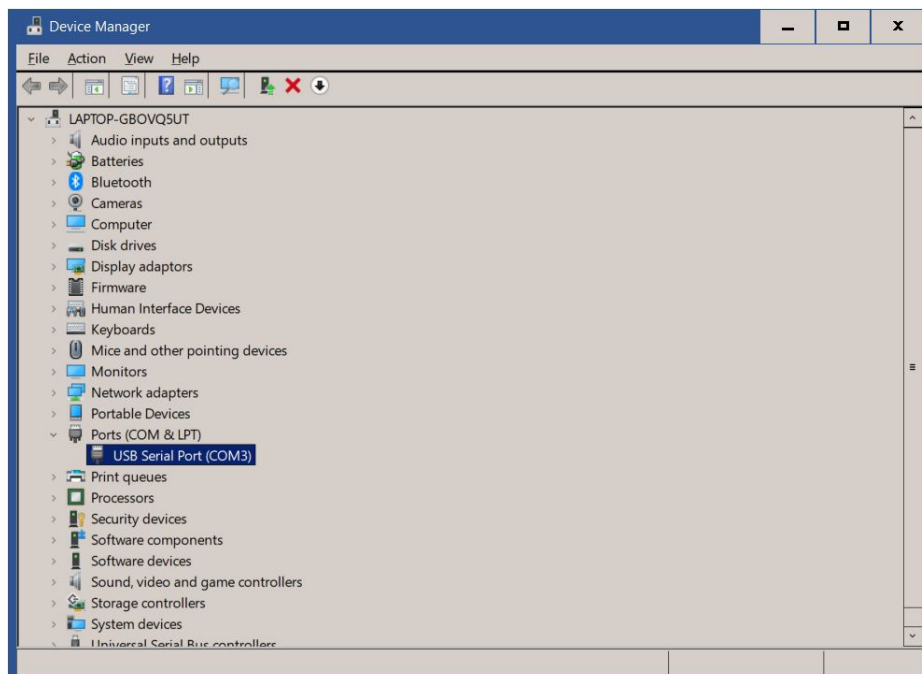
5. FINDING THE PC COMPORT NUMBER

Connect the **Reflectometer** to the **PC** via the **USB cable** and switch it on.

Access the PC **Control Panel** and then click on **Device Manager**:



Now expand the **Ports (COM & LPT)** option by clicking on the > arrow. The list of com ports in use is displayed (in this case, COM3 as shown below).



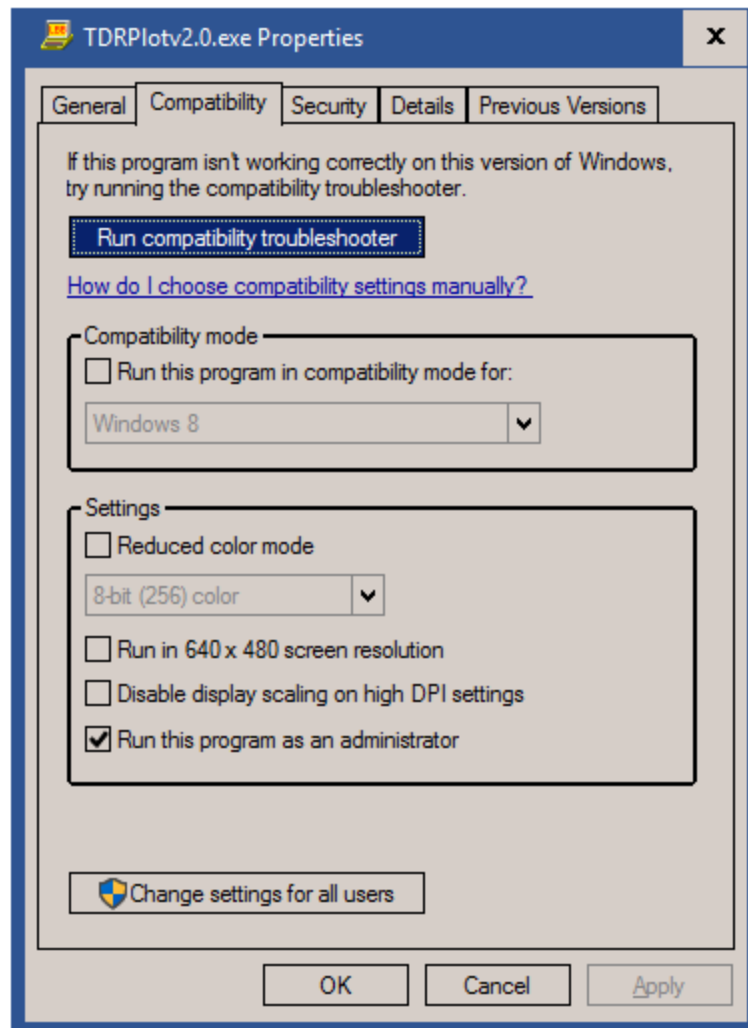
If only one port is shown, as in the case above) this is the comport number in current use (**COM3**). This number should be entered in the comport parameter box in the **TDRPlot Control window**.

6. PROGRAM COMPATIBILITY SETTINGS

The programs **TDRPlot.exe** and **Usercode.exe** must be set to "**Run as administrator**" mode. For each program above, this is done as follows:

Right click on the required .exe file in the **Programs sub-folder** and click on the **Properties** option.

When a new window appears, click on the **Compatibility** tab



Click on the "**Run this program as an administrator**" option in the **Settings** box.

Click **OK** to exit the window.

The **TDRPlot software** can now be run by double-clicking on the **TDRPlot shortcut icon**. However, it will be necessary to obtain an **Unlock code** as described in section 8 before the software can be used for each new PC. *

* Note that this step may not be necessary for modern PCs which have solid state "hard disks".

7. CHANGE USER ACCOUNT SETTINGS.

The following changes need to be made in the **User Account Settings** section of the **Control panel** to allow the **TDRPlot** program to run without generating a security query:

Control Panel > User Accounts > Change user account control settings >

Now set the vertical slider to the **Never notify** setting.

If this change is not made, the PC will always ask permission before running the **TDRPlot** program.

8. UNLOCKING THE TDRPLOT AND USERCODE PROGRAMS *

The **TDRPlot** software is copy-protected and will only run on the PC to which it has been installed. If the software is to be installed on an additional PC, this will require an **Unlock code** to be obtained for each new PC.

Authorised users can obtain an **Unlockcode.txt** file by running the program **Usercode.exe**, which writes a usercode to the file **Usercode.txt**. This file must be emailed to **Rowtest** who will email back a file with the name **Unlockcode.txt**. This file must be copied to the **Program files** folder before the **TDRPlot** software can be run.

The detailed unlock procedure is as follows:

1. Install the **TDRPlot** software to a new PC as described in **Appendix 5**.
2. Run the program **Usercode.exe** in the **Programs** subfolder. This will generate a text file with the name **Usercode.txt**. in the **Programs** sub-folder.
3. Email this file (**Usercode.txt**) to enquiries@rowtest.com.
4. The unlock file **Unlockcode.txt** will be sent to you by return email (usually within 24 hours).
5. Copy **Unlockcode.txt** to the Programs sub-folder.

The **TDRPlot** program should now run correctly on the specified PC.

* Note that this step may not be necessary for modern PCs which have solid state "hard disks".

Please notify us by email at enquiries@rowtest.com if you experience any problems installing the TDRPlot software.

9. OPTIONAL STEPS:

SETTING UP WINDOWS 10

The following modifications have been made to the **Windows setup** on the Laptop PC supplied with the **TDR200** system:

1. Change to standard Desktop view by default

By default **Windows 10** boots to the **Tiles screen**, which is optimised for consumer use. It is preferable for the PC to boot to the normal **Windows Desktop** for commercial use and this can be done by installing the free **Classic Shell** program. This has been included and can be installed by running the **Setup** file in the **Classic Shell sub-folder** within the TDRPlot **Program files** folder.

2. Set the Classic screen Theme.

A close approximation to the **Classic Windows** theme, which gives a high-contrast-type display, can be implemented by copying the file **classic.theme** (located in the **Classic Shell** sub-folder) to the **C:\Windows\Resources\Ease of Access Themes** folder. Then right click on the **Desktop window > Personalise** and select the **Classic Theme** option.

Note that this theme may not work correctly for all programs). In this case, users can easily switch back to a standard **Windows 10 theme** by right-clicking on the **Windows Desktop**, selecting the **Personalise** option and then selecting another Theme.

3. Disable Hot Keys (to stop accidental screen rotation on some PCs (ALT + arrow keys)).

Right click on Desktop > Graphics Options > Hot Keys > Disable

4. Set Default applications for file types

This allows files to be opened with a specific program by double-clicking on the file name.

Start button > Control Panel > Default Programs >

Associate a file type or protocol with a program

Now click on the required file extension type and select the program you want to use to open the file.

5. You may wish to install the following additional programs:

Libre Office (for editing text files)

Irfanview (for viewing image files)

Foxit Reader (for viewing pdf files)