

SPECT-DM Installation Instructions for Windows

Version v1.0

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Purpose

This document has been created to guide the user through the process of setting up a Windows machine to enable it to communicate to the SPECT-DM device through the SPECT-DM test software.

Machine Setup

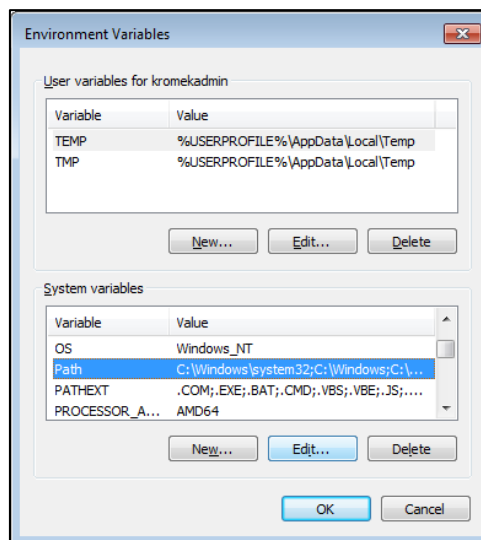
Install Qt

Prior to installing the SPECT-DM test software you must install the Qt 5.2.1 libraries:

- 1) Follow the link below:

http://download.qt-project.org/archive/qt/5.2/5.2.1/qt-opensource-windows-x86-mingw48_opengl-5.2.1.exe

- 2) Allow the wizard to guide you through the installation process.
- 3) Once the Qt libraries are installed we need to add the path to the Qt dlls to the PATH environment variable:
 - a) Open *Control Panel*
 - b) Select *System and Security*
 - c) Select *System*
 - d) Select *Advanced system settings*
 - e) From the *Advanced* tab, select *Environment Variables...*
 - f) Locate the *Path* variable in the *System variables* box and click *Edit...*



- g) Add the following to the *Path* variable:

;C:/Path/To/Your/Qt/Install/mingw48_32/bin

The part that isn't in bold may be different depending on where you have installed Qt, if you accepted the defaults then Qt should be installed at:

C:/Qt/5.2.1

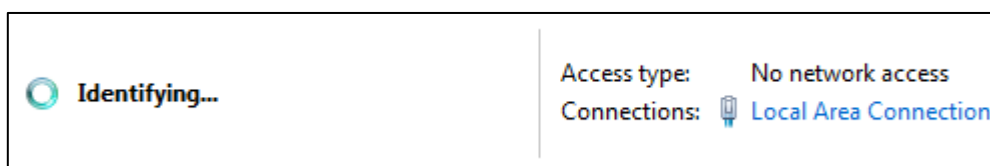
Local network setup

Switch on the SPECT-DM device and connect it to your machine using a network cable.

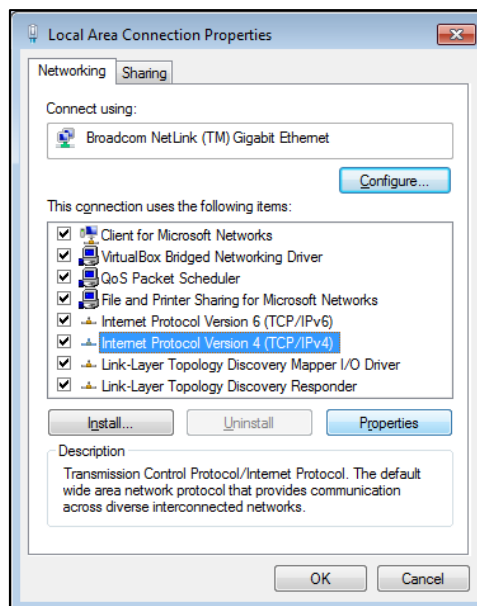
You have now created a new local network and will need to setup an IP address for your machine, follow the steps below to do this:

- 1) Open *Control Panel*
- 2) Select *Network and Internet*
- 3) Select *Network and Sharing Center*

In here you should see a connection with *Identifying...* next to it.



- 4) Click on *Local Area Connection*.
- 5) From the *Local Area Connection Status*, click *Properties*.
- 6) Click on *Internet Protocol Version 4 (TCP/IPv4)* and click *Properties*:



- 7) Select the *Use the following IP address* radio button and enter the following:

IP address: 192.168.1.199
Subnet mask: 255.255.255.0

Note: The IP address doesn't have to be 192.168.1.199, the netmask of 255.255.255.0 allows the last octet, 199, to be changed. It may be that you have the SPECT-DM attached to a small network in which case just ensure that the IP address of your machine doesn't conflict with another machine on the network or the SPECT-DM device, which is 192.168.1.100.

8) Click *OK*.

The network should now be setup, returning to the *Network and Sharing Center* page, the connection should appear as follows:



Installing the SPECT-DM test software

- 1) Launch setup.exe
- 2) Click *Next >* on the first screen of the wizard.
- 3) The default location for the installation is:

C:\Program Files (x86)\Kromek\SpectDM

If you would prefer to install this elsewhere you can change this location clicking on the *Browse...* button.

Click *Next >*

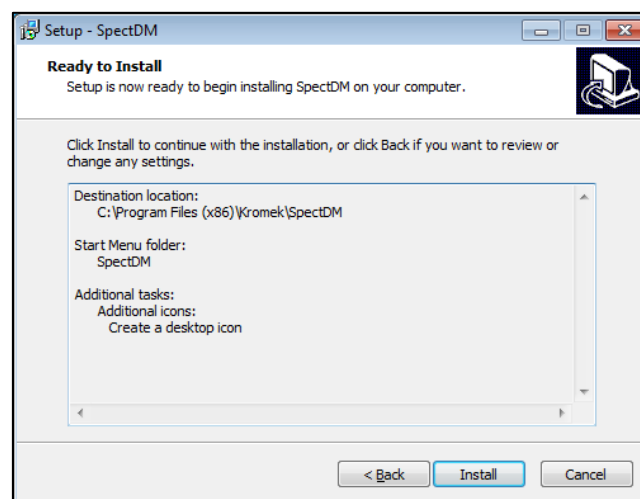
- 4) By default, the installation wizard will create a start menu folder for SpectDM. If you don't want one of these then tick *Don't create a Start Menu folder*.

Click *Next >*

- 5) The installation wizard won't create a desktop icon by default, if you would like one then tick *Create a desktop icon*.

Click *Next >*

- 6) Review the options you have selected:



If you are happy with the settings then click *Install*, otherwise use *< Back* to make changes.

Starting the SPECT-DM test software

- 1) Navigate to the directory where you installed the SPECT-DM software.
- 2) Locate the SpectDMTestApp.exe and launch it.
- 3) Replace the default **Host PC IP** with the IP address you configured for the local network earlier.

Leave the **Camera IP** set to 192.168.1.100

On clicking *Connect* the other tabs in the test software will become available and enable you to configure the SPECT-DM device.