

INDEX

Scope .....2  
 Connection to a printer .....2  
 Select the external USB printer .....2  
 Compatible printers .....3  
 Setting your printer to Postscript.....3  
 Check the language is set to Postscript.....4  
 To check the USB connection. ....6

Revision history

9					
8					
7					
6					
5					
4					
3					
2					
1					
0					First release
<b>Rev.</b>	<b>Release. QD</b>	<b>Date</b>	<b>Approval RGQ</b>	<b>Date</b>	<b>Reason for mod</b>

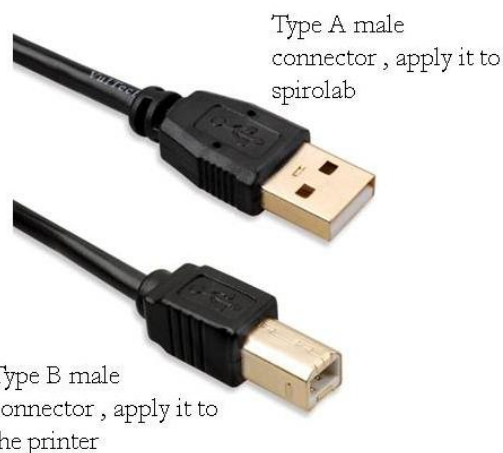
## Scope

This document supplies all of the information required to make a correct connection between Spirolab and an external USB printer.

To use this connection from the Spirolab you must have a printer which supports the “Postscript” language.

## Connection to a printer


You must use a USB cable with a male B connector. This must be connected directly to the printer and the male A connector goes to the Spirolab.




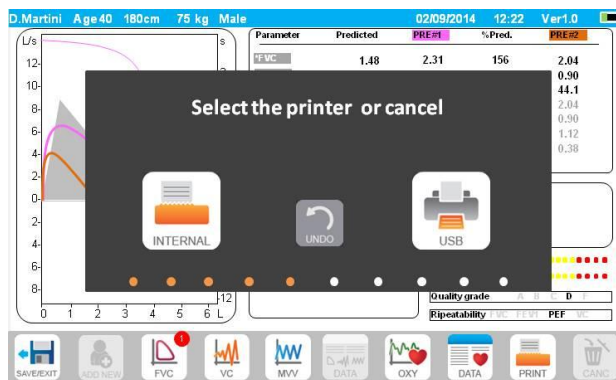
The female connector on the Spirolab is on the rear of the device as shown.



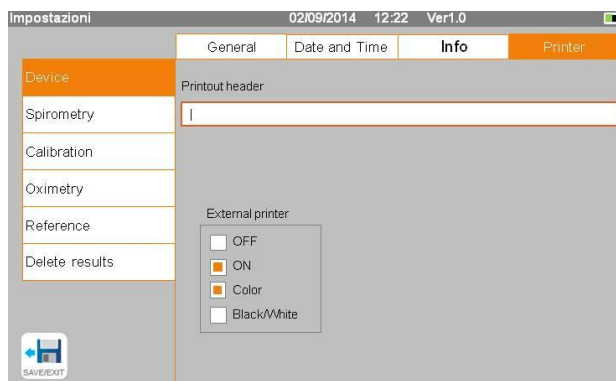
## Select the external USB printer

Select the icon  at the end of a test or when viewing the results of a previous test session, when you see the message shown here:

Touch  for the external printout.



In the service menu you can set the external print to black and white or colour printout.



## Compatible printers

The following printers have been tested by us and others MAY be ok:

Make	Model
Brother	HL-3170CDW
Brother	HL-5470DW
Brother	HL-L8350CDW
Brother	MFC-L2740DW
Brother	MFC-8910DW
Brother	MFC-9340CDW

Sharp	MX3140
-------	--------

HP LaserJet Pro	MFP M225DW
HP LaserJet Pro	MFP-M477fnw
HP Color LaserJet	CP252dw
HP Laserjet Mono	M402n
HP Color LaserJet Pro	M426fdw
HP LaserJet Pro	MFP M277DW
HP Color LaserJet	M451DN
HP Color LaserJet	M551
HP Color LaserJet	CP3525
HP Color LaserJet	CP4525
HP Color LaserJet	CP2025

Samsung	Xpress C460FW
Samsung	ML3471
Samsung	SCX-4x20

Ricoh Aficio	SP320DN
Ricoh Aficio	MP301SPF
Ricoh Aficio	MPC2051
Ricoh Aficio	MPC3501

## Setting your printer to Postscript

Some printers recognise PCL as well as Postscript modes.

Set Postscript as follows:

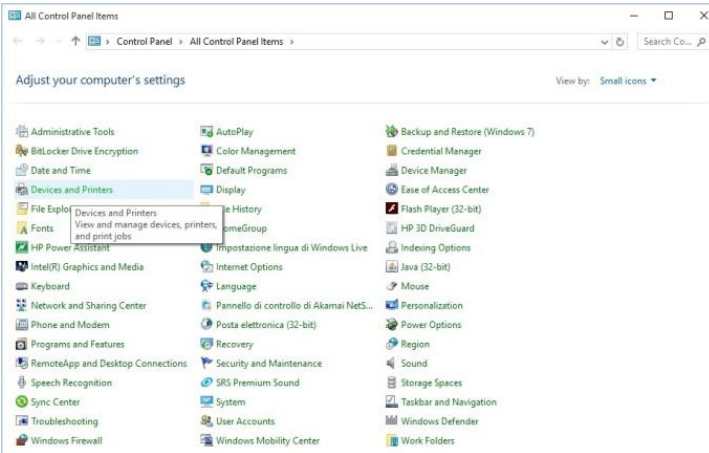
- 1) Go to the printer config menu
- 2) Select "System"
- 3) Then select "Printer Language"
- 4) Set the printer to either AUTO or PS

## Check the language is set to Postscript

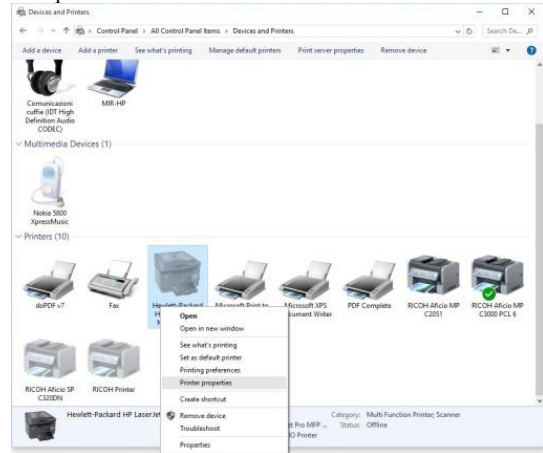
To check that you have set the printer correctly proceed as follows. You will need:

- PC with Windows 7 or 10
- Printer
- USB cable as shown above.

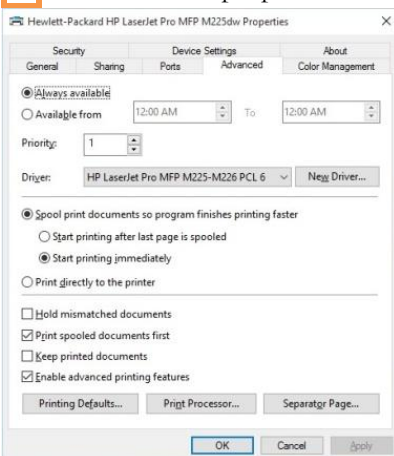
**1** Go to the PC control panel and then to “Devices and Printers”



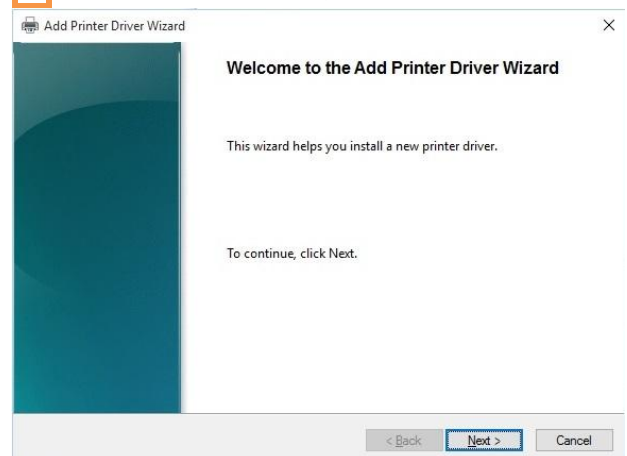
**2** Click with the right mouse and onto the icon of the printer in use.



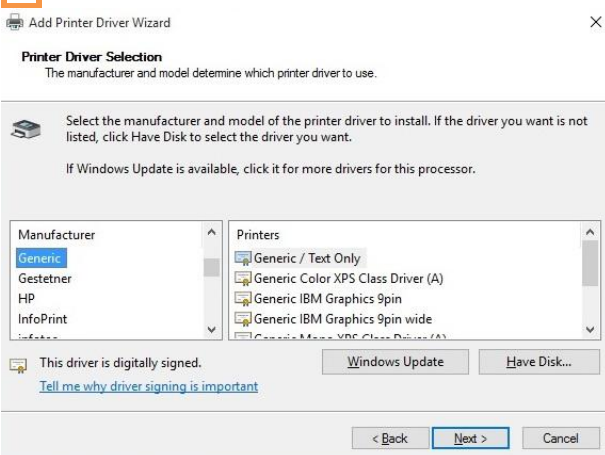
**3** Select “Printer properties” and then “Advanced”



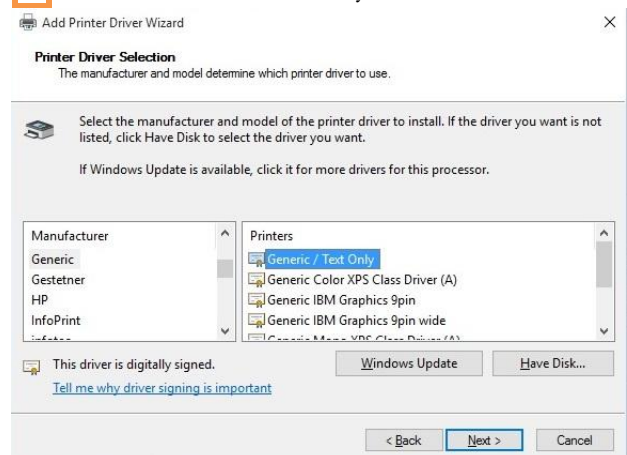
**4** Select “New Driver...”, and then “Next”:



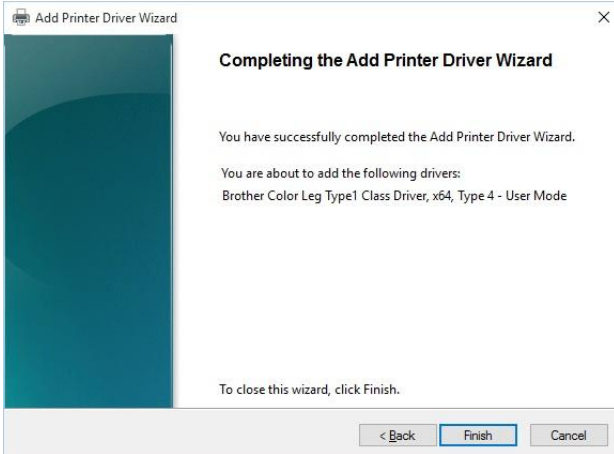
**5** Search for “Generic” and select it.



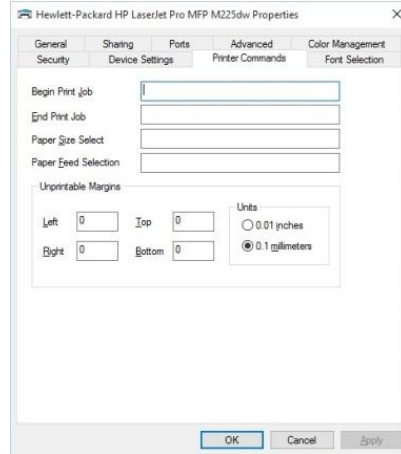
**6** Select “Generic/Text Only” and “Next”



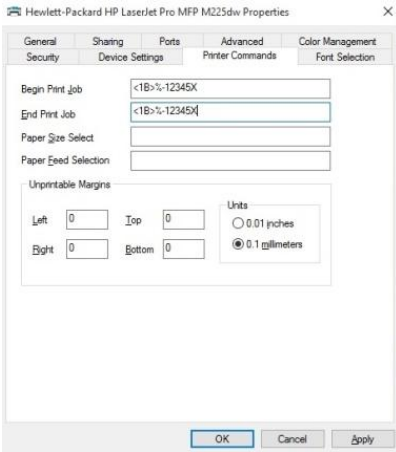
**7** Click on “Finish”



**8** In “Printer properties”, select “Printer commands”



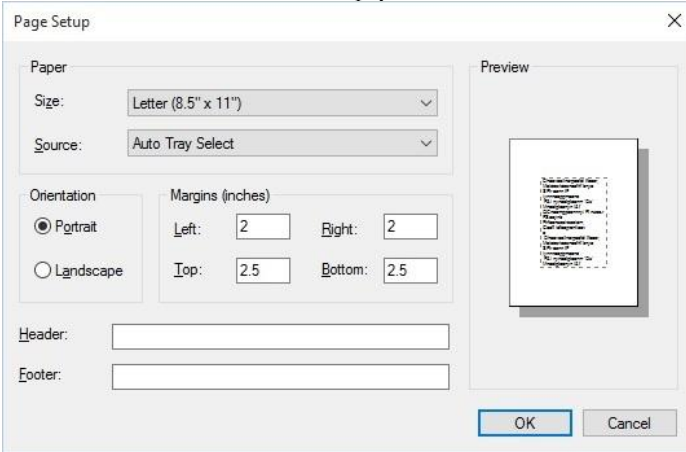
**9** Insert **<1B>%-12345X** in the “Begin Print Job” field and then “End Print Job”



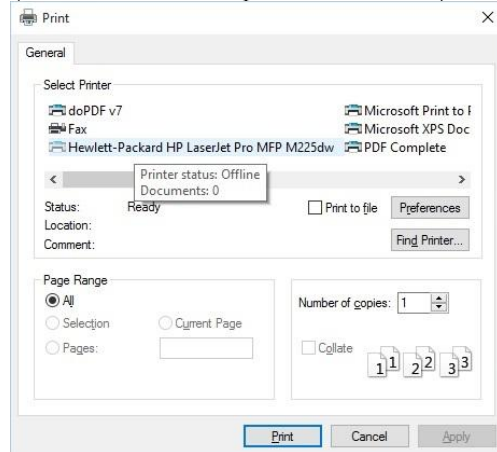
**10** Open Note pad; copy and paste the following text string:

```
%!PS-Adobe-
/Times-Roman findfont 20 scalefont setfont
0.000 0.000 0.000 setrgbcolor
1 setlinewidth
150 500 moveto
(PostScript Printing Test) show
150 450 moveto
(Verdict: PASS) show
showpage
```

**11** Click on File and select “Page Setup” make sure that “Header” and “Footer” are empty and click OK



**12** Then click again on File and select “Print ...”, (ensure that the test printer is selected)



**13** On the printer you should then have the following printed in the centre of the page:

PostScript Printing Test  
Verdict: PASS

In this way you have verified that the test printer works correctly in Postscript.  
If not then you must repeat the above steps OR contact MIR Technical Service.

## To check the USB connection.

If the above procedure did not resolve then try as follows, with the following hardware:

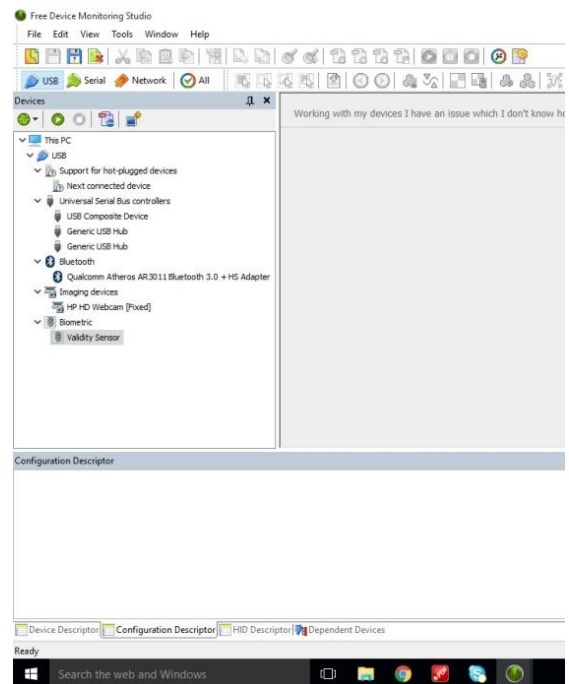
- PC with Windows 7 or 10
- Printer
- USB cable
- Software Device monitoring studio (can be downloaded from internet)

This procedure serves to see the connection details that are made when the printer is connected to a PC.

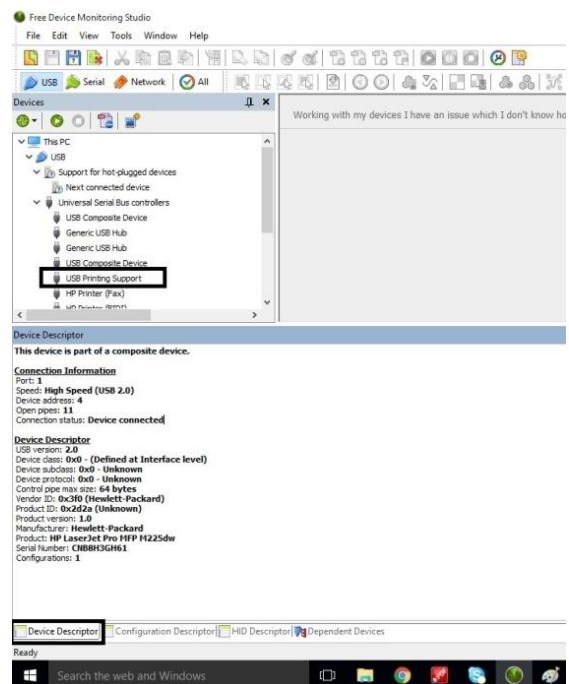
**1** Install “Device monitoring studio” which can be downloaded here:

<http://www.hhdsoftware.com/>

This software is free for 15 days.  
Start the program.

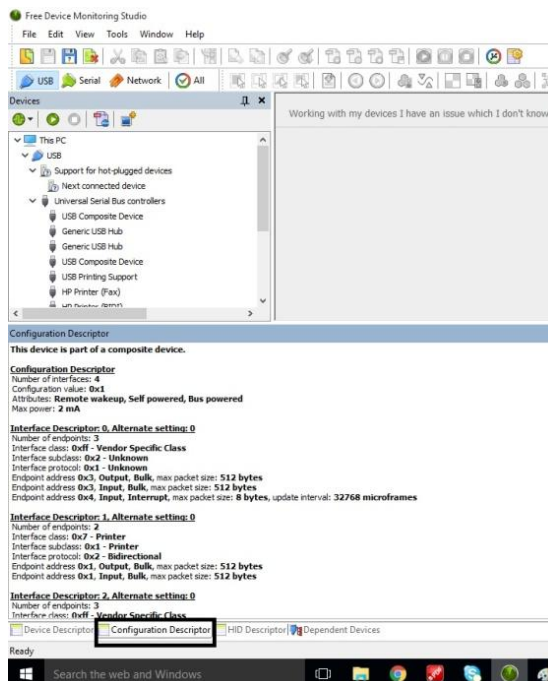


**2** Connect the printer via USB. “USB printing support” will be shown in the list of USB devices in the list: Click on “Device Descriptor” at the bottom left and info will be shown re the connected device. Copy the text from the window and paste it into a text file and save as “Device Descriptor”.

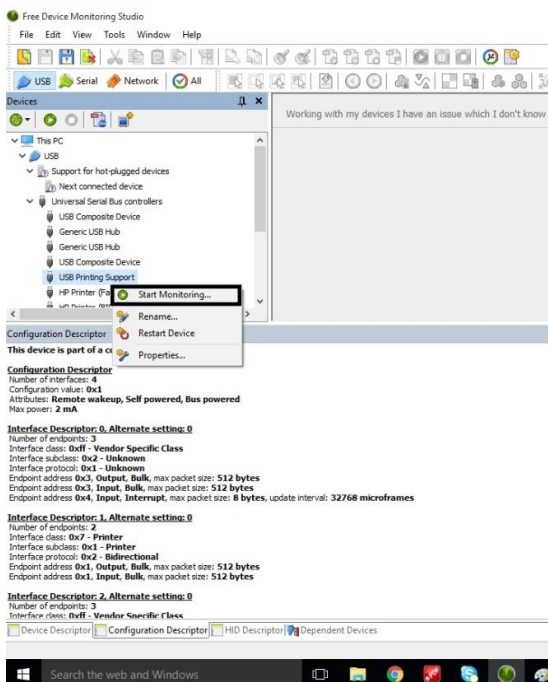




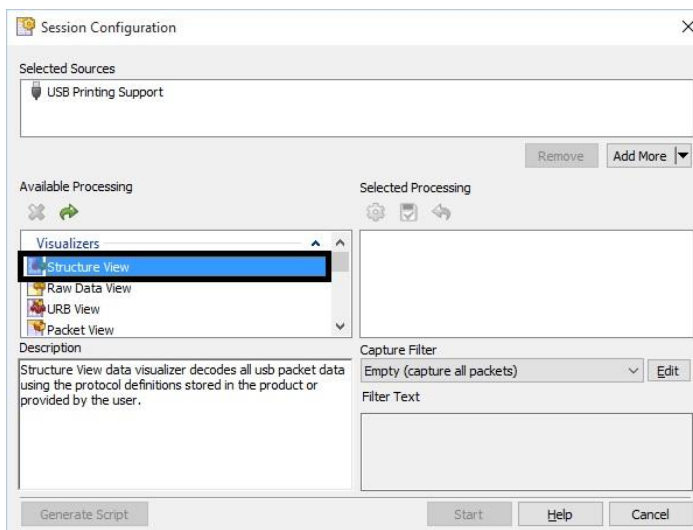
3 Click on “Configuration Descriptor”.  
Again copy the text and paste it to a text file as above.



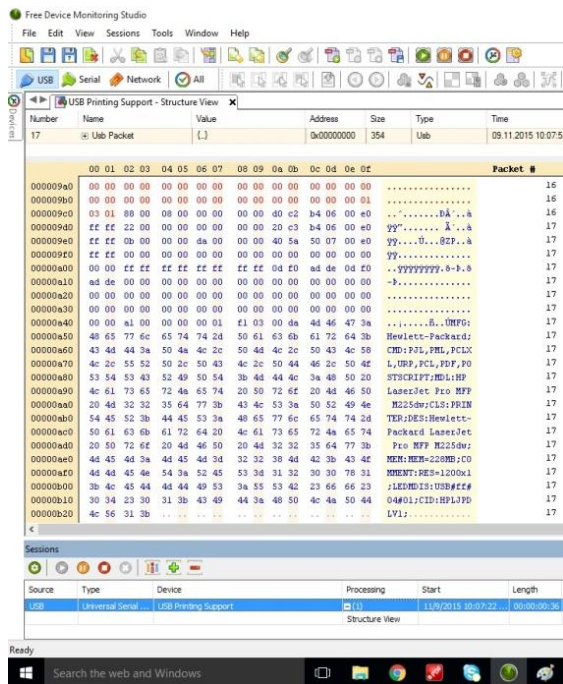
4 Then click with the right mouse button on the printer and then on “Start Monitoring ...”



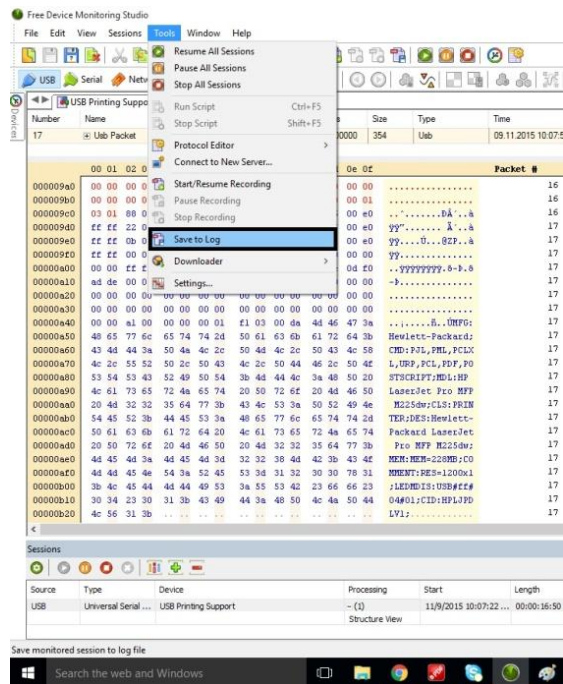
5 Then double click on “Structure view” and Start.  
Remove and reconnect the USB cable to and from the PC.



You will see a log of the connection information.



6 Then click on “Tools” and “Save to Log” naming the file “Log info”.



Now you will have 3 files saved:

- Device Descriptor
- Configuration Descriptor
- Log info

Send these 3 files to MIR for analysis.