

FARO[®]

LASER SCANNER LS

Super Mobile Laser Scanning

iPod Touch Configuration Manual

- Setting up a WLAN connection to the FARO Laser Scanner LS with your iPod Touch -



En iPod Touch Configuration

If your iPod Touch was not preconfigured this manual shows you how to set up your iPod Touch in order to connect to the FARO Laser Scanner LS via WLAN.

1. WLAN (Wi-Fi) settings of the scanner

First of all you need the WLAN settings of your laser scanner.

Plug the Fritz!WLAN USB stick into one of the USB ports of your laser scanner. Please note that you can only use the Fritz!WLAN USB stick to establish a WLAN connection to the scanner.



Fig.1 WLAN Stick in the USB port

Note: If you plugged the WLAN stick into the scanner for the first time you have to restart the scanner once before further usage. Leave the stick plugged in when restarting. Afterwards the scanner doesn't need to be restarted anymore when the WLAN stick is plugged into the scanner.

The WLAN of the scanner is automatically configured to be in Adhoc mode with WEP encryption. The IP address and subnet mask of the WLAN connection are derived from the scanner's ordinary Ethernet connection. In order to get the actual WLAN settings, you should use your notebook and the ordinary LAN connection. Start your favorite web browser on your notebook and connect to FARO Record Mobile on the scanner by entering the Ethernet IP address. Make sure that no FARO Scene is currently connected to the laser scanner. You should now see the start page of FARO Record Mobile.



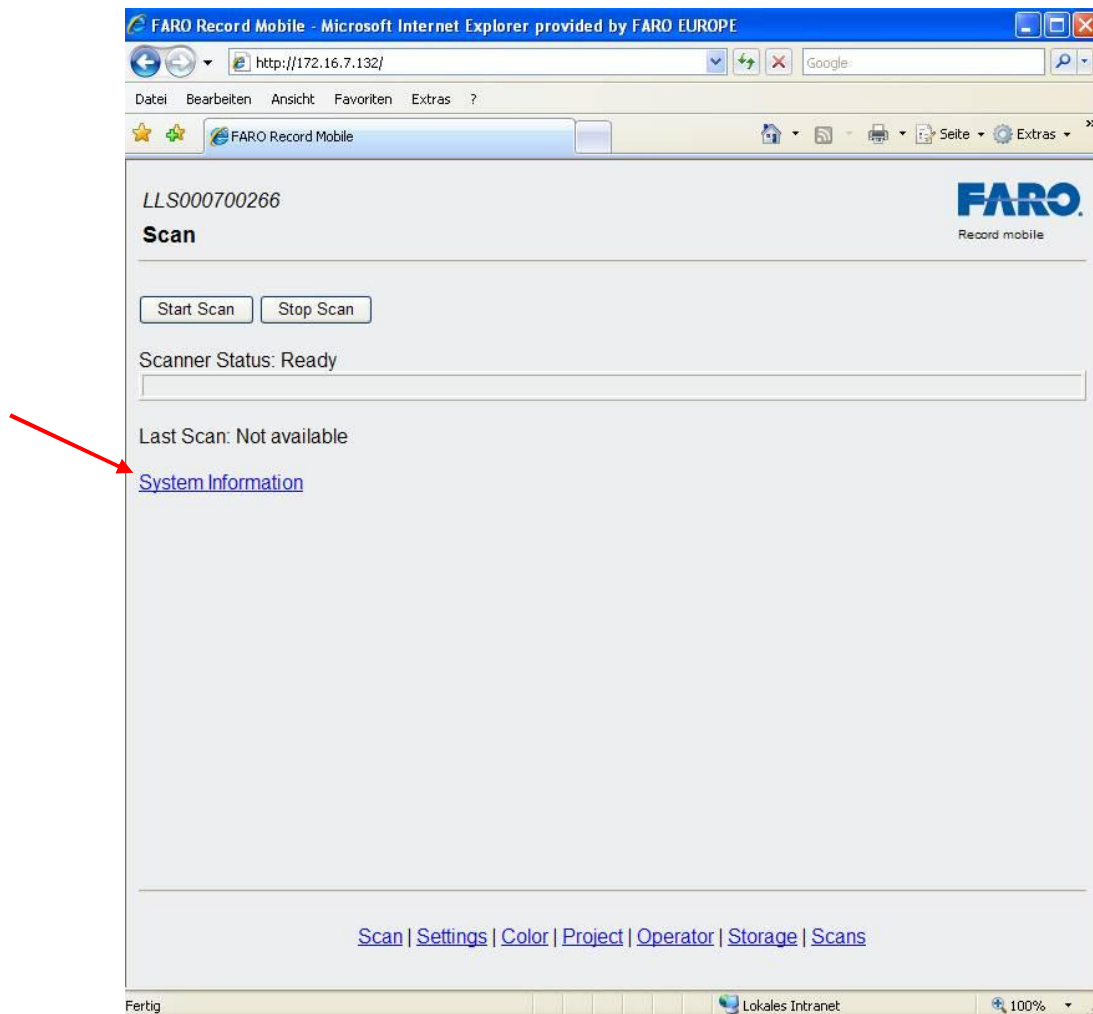


Fig.2 Start Page of FARO Record Mobile

Follow the link *System Information* and you will see the WLAN connection settings.



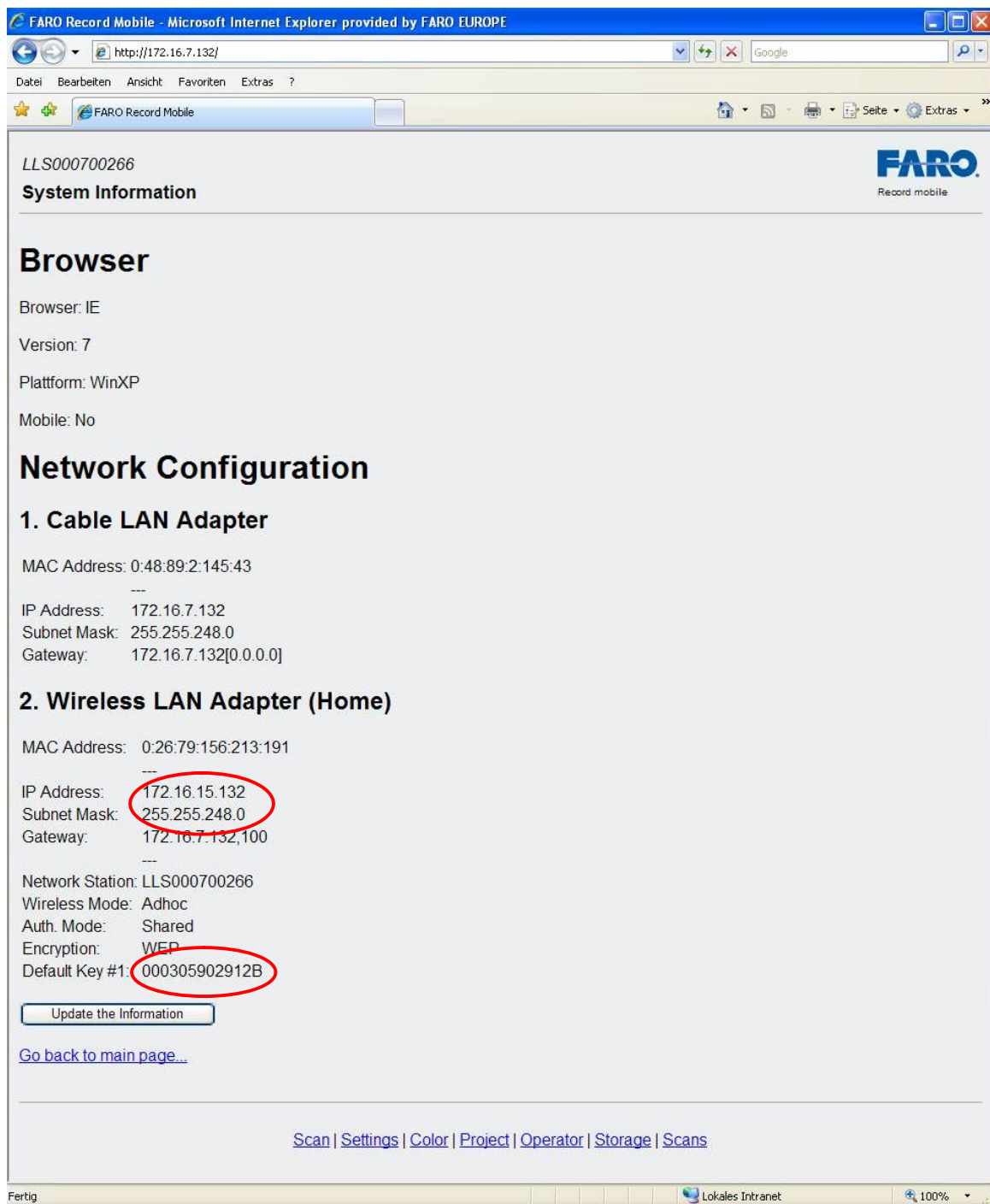


Fig.3 System Information of the Scanner's Networks

You'll need the **WLAN IP address**, the **WLAN subnet mask**, and the **WEP key** when setting up your iPod Touch (the system information in the picture above is only an example and the values might differ from your scanner. Please use the values according to your laser scanner for the following configuration steps).



2. Firmware of the iPod Touch

Before starting with the configuration of the iPod Touch, please make sure that it has the latest firmware installed. To check this, connect the iPod Touch to your PC / Notebook and start iTunes. Click on the iPod Touch device on the left. iTunes now shows you the version of the installed iPod Touch firmware.

Click on Check for update.

If there is a new update, iTunes will ask you to install it. Install the update!

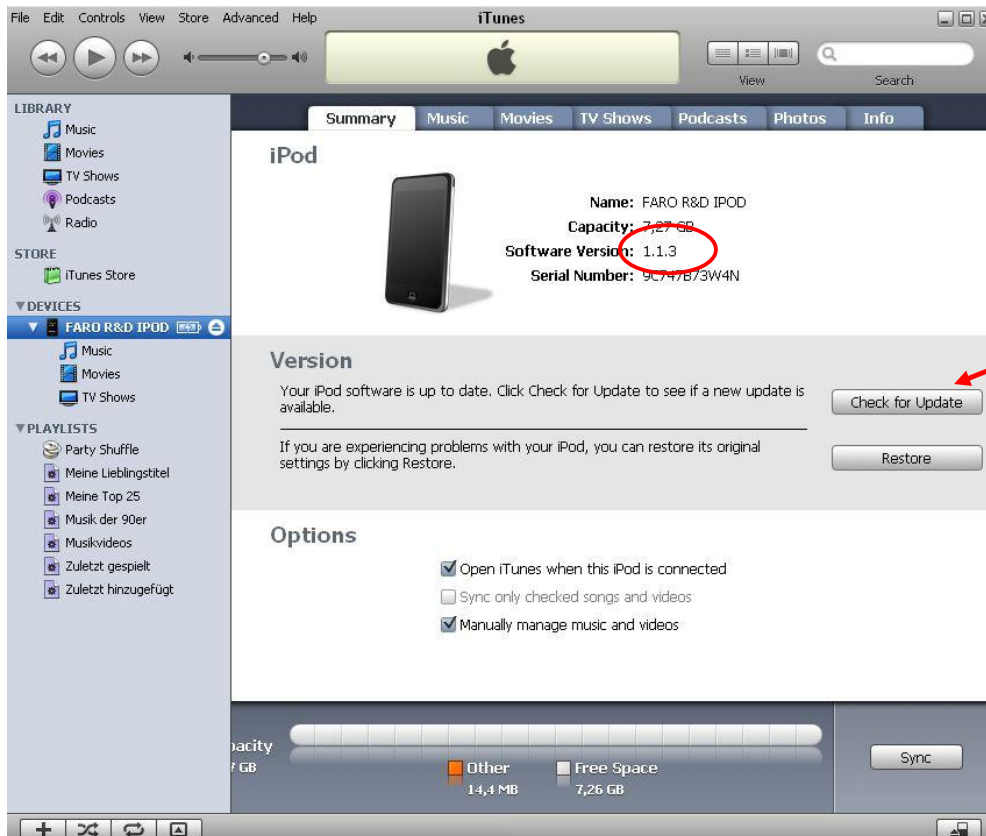


Fig.4 iTunes



3. Setting up the WLAN of the iPod

Make sure the Scanner is ON and the WLAN Stick is plugged in.
Switch on the iPod Touch.

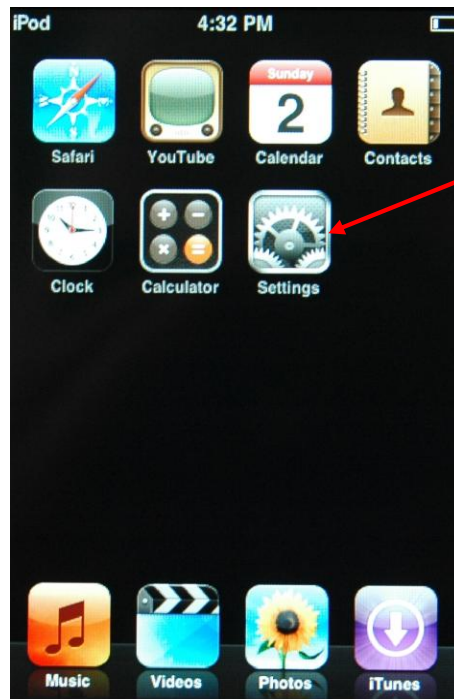


Fig.5 iPod's Start Screen

On iPod's start screen open the *Settings* dialog.

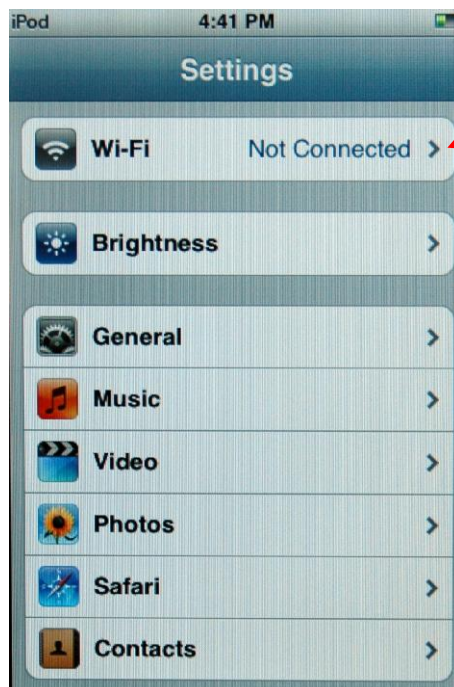


Fig.6 Settings Page

To configure the WLAN connection, you have to open the *Wi-Fi* settings page.



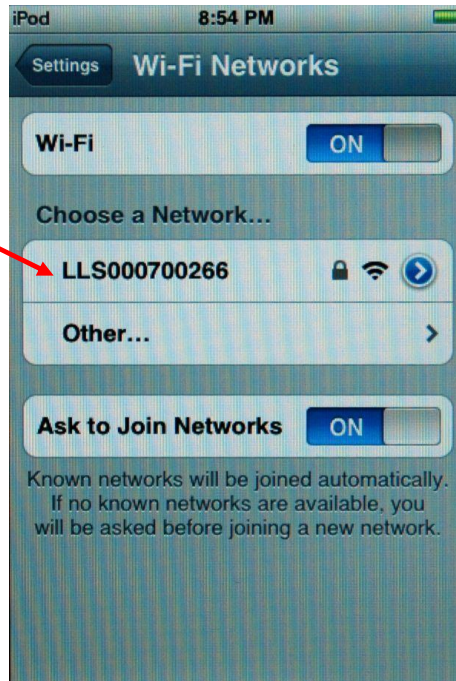


Fig.7 Wi-Fi Page



Fig.8 Enter Password / WEP Key

On the Wi-Fi page you should see the WLAN network of the scanner. Click on this network and enter the WEP key of this connection (see chapter 1). **Note that the key is case-sensitive (you have to touch the *shift* button before every letter).** Click on *Join*.



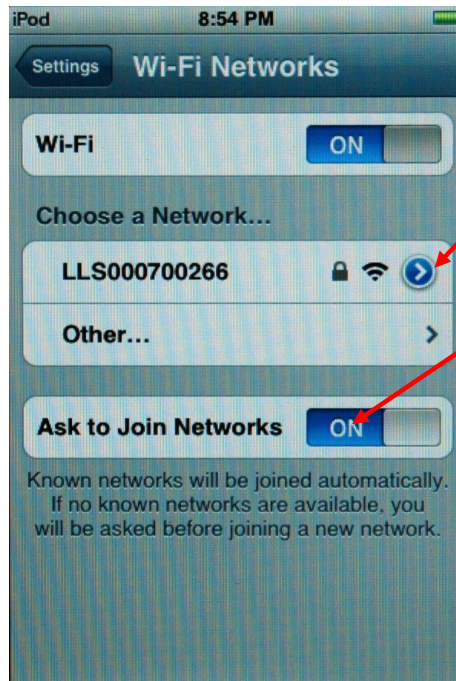


Fig.9 Wi-Fi Page

Go back to the *Wi-Fi* page. Make sure that option *Ask to Join Networks* is turned ON. Then click on the arrow next to the network of the scanner.

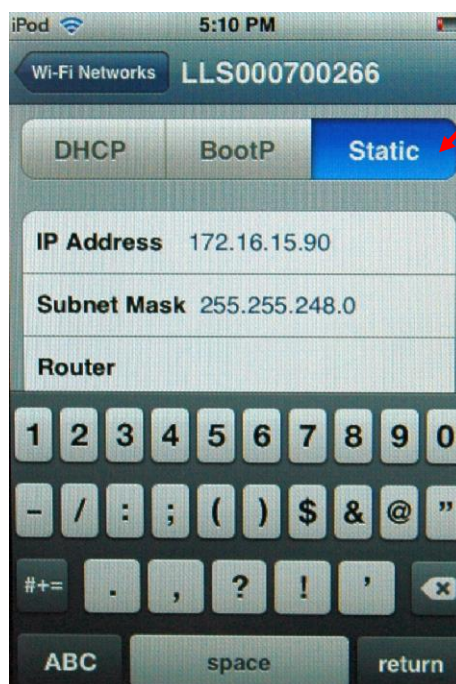


Fig.10 Wi-Fi Settings

Click on *Static* and enter a WLAN IP address and the WLAN subnet mask. The WLAN IP address must be compatible with the one of the scanner (but not the same). If you like, you can take the WLAN IP address of the scanner and simply change the last number. For example, if the scanner has 172.16.15.132, you can enter 172.16.15.90 here. The WLAN subnet mask must be the same as the one of your laser scanner (see chapter 1).



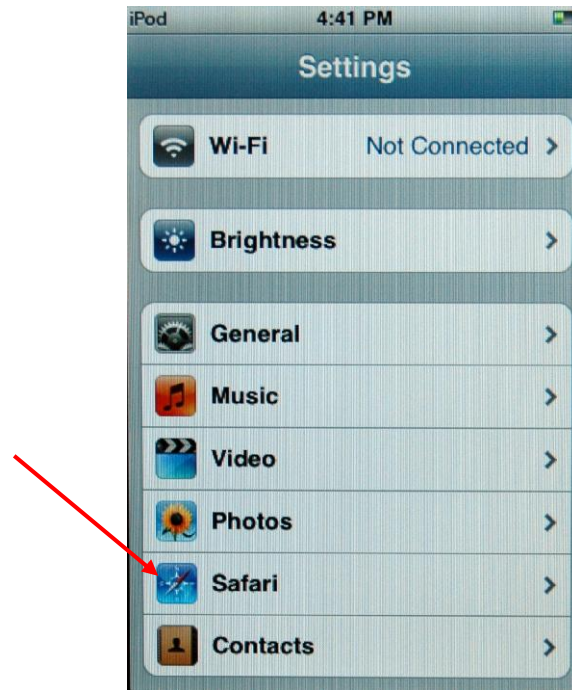


Fig.11 Settings Page

Go back to the main screen of you iPod Touch. Go to *settings* page and click on *Safari*.



Fig.12 Safari Settings

Make sure that *JavaScript* and *Plug-Ins* are turned ON.

Go back to *settings* page and click on *General*. Here you should change the *Auto-Lock* option to at least 5 minutes.



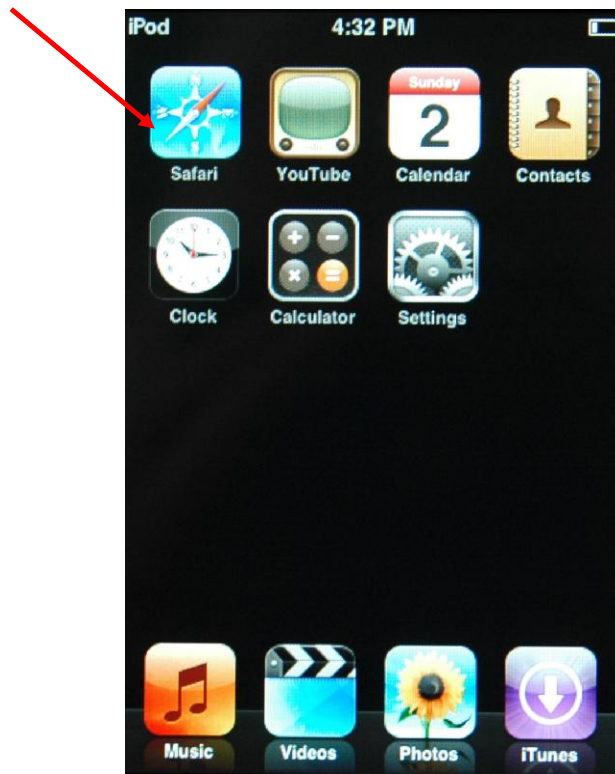


Fig.13 Ipod's Start Screen

Now you should be able to connect to the FARO Laser Scanner LS via WLAN. To check this, go back to the start screen of your iPod Touch and open the *Safari Browser*.

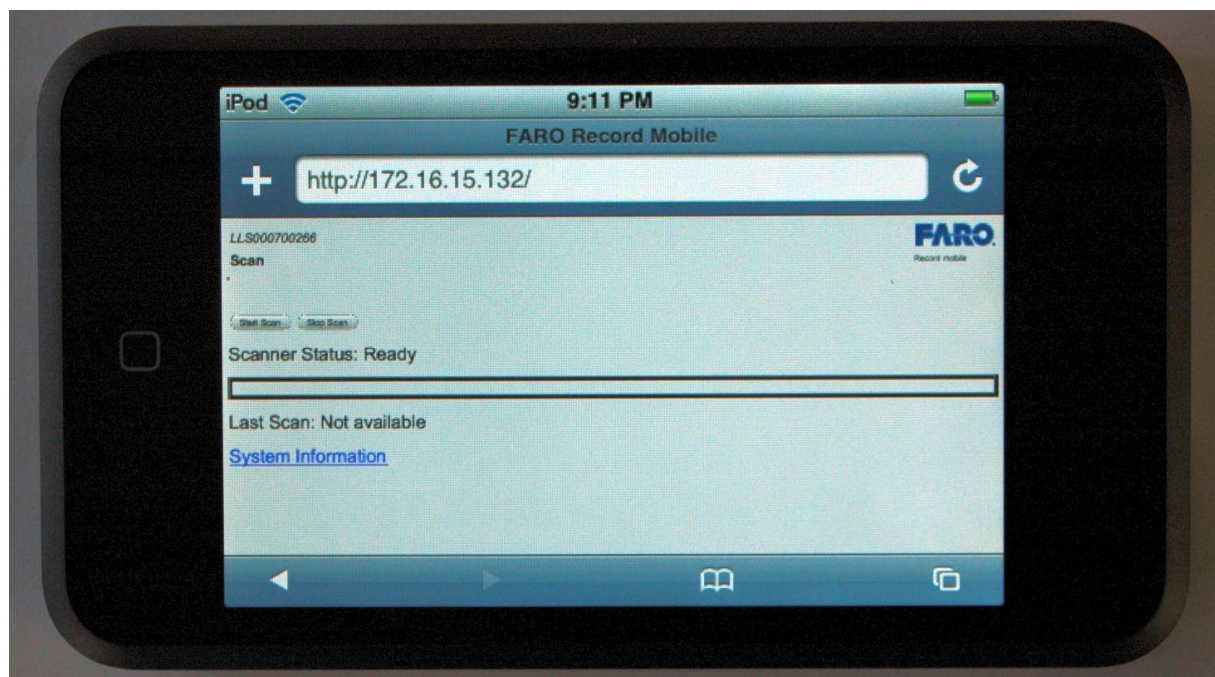


Fig.14 FARO Record Mobile on the iPod Touch

Enter the IP address of the WLAN Adapter of the scanner (not the Ethernet IP address of the scanner and not the IP address of the iPod Touch). You should now see the start screen of FARO Record Mobile.



Please refer to the Laser Scanner LS manual to get a description of how to work with FARO Record Mobile.

4. Troubleshooting

If you're trying to connect to Wi-Fi and it looks like you're connected, but when you try to access FARO Record Mobile, the pages will not be loaded it may be due to several issues:

- Have you entered the WEP key correctly? Try to enter the WEP key again. Please note that the WEP key is case-sensitive.
- Have you entered a **static** IP address when configuring the WLAN connection? DHCP must be turned off and the iPod Touch must have a static IP address.
- Have you entered a correct IP address and the correct subnet mask? The static WLAN IP address of the iPod Touch must be compatible with the one of the scanner (but not the same). If you like, you can take the WLAN IP address of the scanner and simply change the last number. For example, if the scanner has 172.16.15.132, you can enter 172.16.15.90 here. The subnet mask must be the same as the one of your laser scanner
- Are you already connected to the scanner with another device via WLAN? The WLAN of the scanner is configured to be in Adhoc mode. That means that at the same time only one device can be connected to the scanner. Please check whether another device, e.g. your notebook is connected to the scanner via WLAN.
- Turn the iPod Touch off and then turn it on again. Directly open the Safari browser and enter the WLAN IP address of the scanner. The iPod should now show you a dialog box to select a Wi-Fi network (Please make sure that the option "Ask to Join Networks" is turned ON in the Wi-Fi settings. Else the iPod will not show you this dialog box). Choose the WLAN connection of the scanner. The iPod should now connect to the scanner and the FARO Record Mobile start page should be loaded. The iPod might give you an error message that says that it is unable to join the network. But if the FARO Record Mobile start page has been loaded the iPod is connected and the appearing error message is wrong. This is an error of the iPod software that will hopefully be solved in future software versions. You might have to repeat this step several times.
- When you close the Safari browser the iPod will close the WLAN connection too due to power saving reasons. When you open the Safari browser again and want to connect to FARO Record Mobile you might not be able to reconnect to it again. If you have this problem try the following: Go to *Settings – Wi-Fi* – turn the Wi-Fi off and on again and wait until the network of the scanner appears in the networks list. Then go back to safari browser and open FARO Record Mobile. The iPod should now show you a dialog box to select a Wi-Fi network. Choose the WLAN connection of the scanner. The iPod should now connect to the scanner and the Safari browser should load the FARO Record Mobile start page. The iPod might give you an error message that says that it is unable to join the network. But if the FARO Record Mobile start page has been loaded the iPod is connected and the appearing error message is wrong (see also above).



- Do you have the latest iPod Touch firmware? See above or refer to the iPod's manual how to upgrade to the latest firmware.

If you want to start a scan with FARO Record Mobile and click on the start scan button nothing happens:

- Is the sensor of the scanner turned on?
- Are *JavaScript* and *Plug-Ins* turned on in the Safari browser settings? Make sure that *JavaScript* and *Plug-Ins* are turned ON. Please see above on how to turn JavaScript and Plug-Ins on.

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