quick installation guide: unshielded proximity reader 13.56 mhz

Quick Installation Guide

Version 3.2 | 23rd February 2012

[Installation Guide]

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change history

Date	Version	Description
27-10-2006	1.0	First version
21-09-2010	2.0	Changed layout to librix style
03-03-2011	3.0	Changed screenshots
01-02-2012	3.1	FCC related changes
23-02-2012	3.2	Added EMC requirement about ring cores

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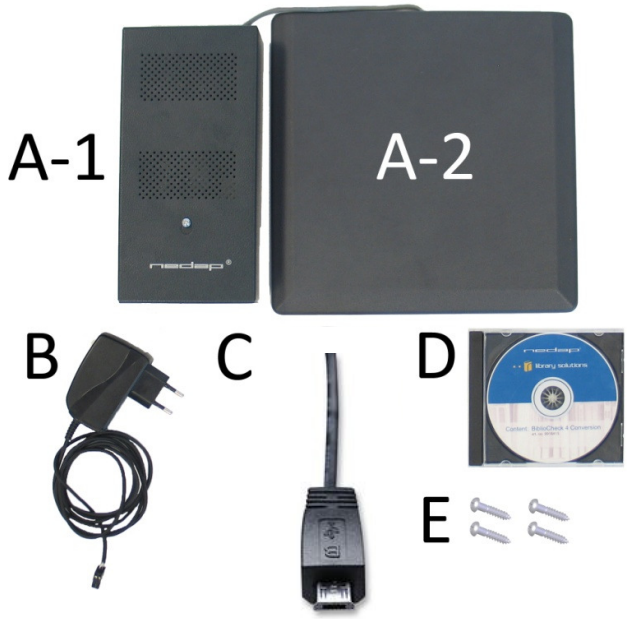
note

The staff station can, in principle, replace barcode scanners. The unit enables the staff to identify all articles with an RFID-label. The standard staff station consists of an RFID reader positioned on the counter/desk (tabletop model). The reader is connected to the existing hardware (PC) and/or library automation system. The BiblioCheck 4 Lite software is designed for the simple use of the reader in combination with your current database management system.

Included:
1x *[A-1]* Proximity Reader with *[A-2]* preinstalled antenna
1x *[B]* Power cable
1x *[C]* USB-cable
1x *[D]* Nedap installation CD
4x *[E]* Screw for mounting the proximity reader

Not Included:
1x Cross point-screwdriver
1x Computer with CD/DVD-drive
1x Item containing an RFID-Label



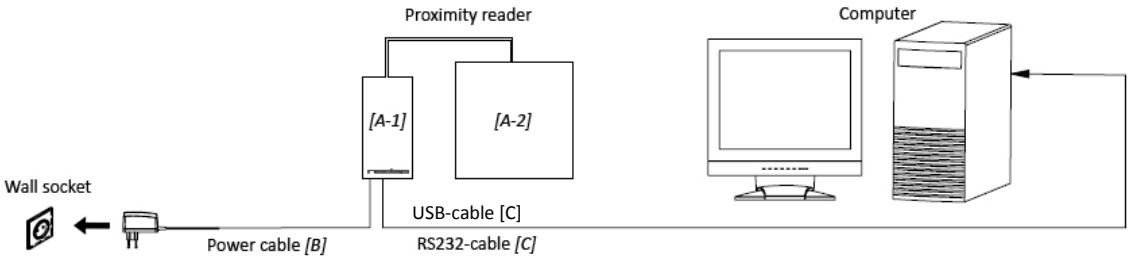
safety instructions & precautions

The following safety instructions and precautions should be observed during normal use, service and repair.

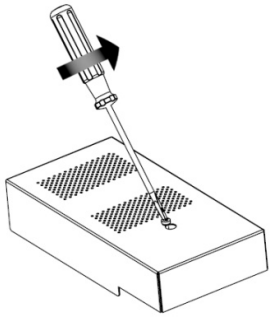
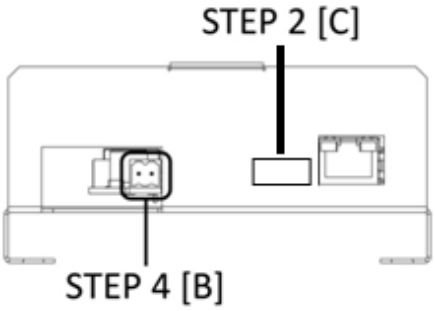
- Do not change anything regarding the proximity reader or the installation procedure.
- Always switch off the power (by disconnecting the power plug) before you remove the cover.
- Do not mount the proximity under a table with an metal frame or under metal tables.
- Do not remove ferrite cores. Required for EMC suppression.

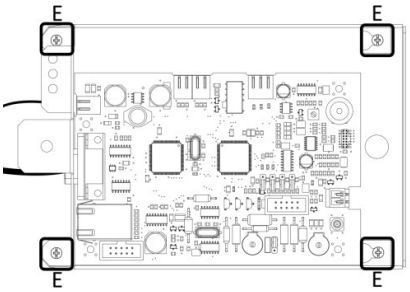
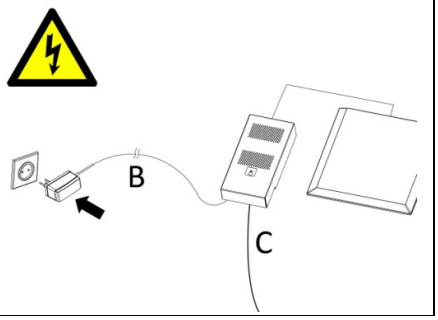
chapter 1: hardware instructions

Installation scheme:



1.1 steps

Step 1: Remove the cover of the proximity reader [A-1].	
Step 2: Connect the USB-cable *[C]* to the proximity reader *[A-1]*. **Step 3:** Connect the USB-cable *[C]* to the USB-port of the computer. The USB-port is most likely located on the back of the computer. **Step 4:** Connect the power cable *[B]* to the proximity reader *[A-1]*. The side with the screws needs to be up. This way, you will insert the plug the correct way. **DO NOT ACTIVATE THE POWER BEFORE YOU HAVE COMPLETED STEP 5!**	

OPTIONAL Mount the proximity reader *[A-1]* by putting the screws *[E]* in the premade holes. **ATTENTION!** ***Mount the electronics [A-1] at least 15 cm's (6 inches) away from the antenna[A-2] to make it work properly! Do not mount the electronics under the antenna!*** **Step 5:** Replace the proximity reader's cover.	
Step 6: Activate the power by putting the plug of the power cable *[B]* in an electric point. **Step 7:** Proceed to the **SOFTWARE INSTRUCTIONS.**	

chapter 2: software instructions

Notice:
The screenshots in this guide may differ from what the computer is displaying. However, the procedure remains the same.

Minimal system requirements:

- Operating system:
  - Windows 2000, XP Professional SP3, Vista Business and 7 Business
  - Windows Installer 3.1
  - Microsoft .NET framework 2.0 sp2
- CD/DVD-drive

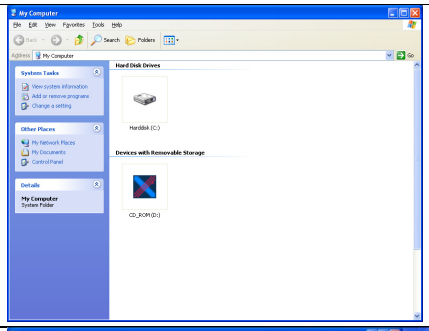
2.1 steps

Step 1:
Start up the computer. Log in with 'administrator rights'.

Step 2:
Insert the installation-CD *[D]*.

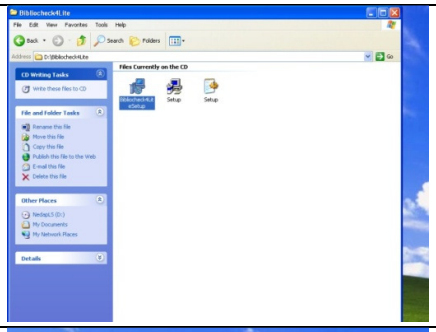
Step 3:
Normally, the CD will run automatically. When this does not occur:

Go to: Start > My Computer > CD/DVD-drive (Now called: Nedap Librix).

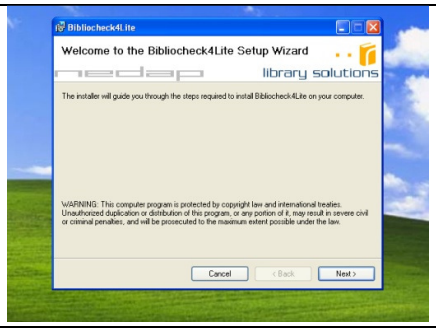


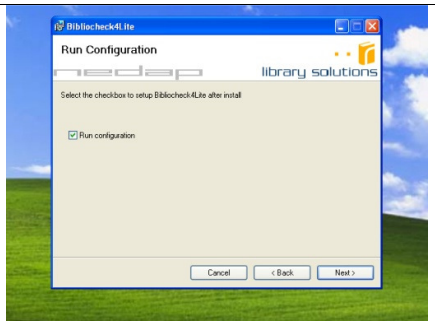
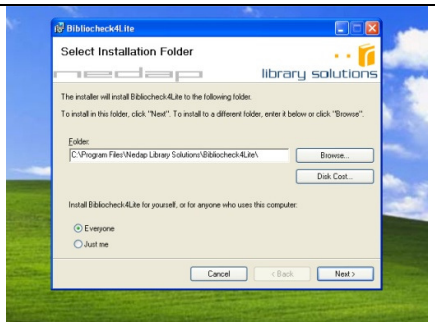
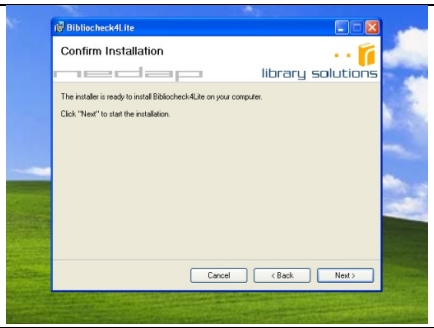
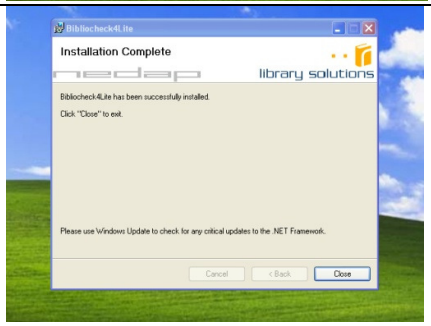
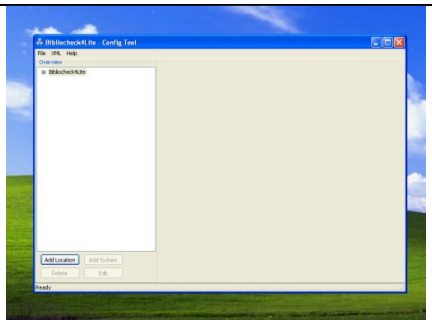
Step 4:
Enter the folder 'BiblioCheck4Lite'.

Step 5:
Run 'BiblioCheck4LiteSetup.msi'.



Step 6:
Read the instructions and click on '*Next >*'.

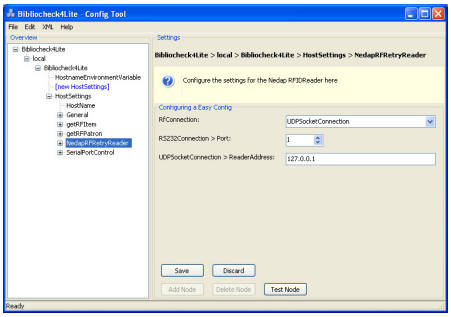


Step 7: Make sure 'Run Configuration' is checked and click 'Next >'.	
Step 8: Make sure '*Everyone'* is checked so Bibliocheck4Lite is installed for all accounts using the computer. Click *'Next>'*	
Step 9: Click '*Next >'* to start the installation. **Step 10:** The installation progress will be displayed. Wait for the installation to be finished.	
Step 11: Click 'Close' to finish the installation.	
Step 12: The configuration tool will start up**.**	

STEP 13
At the configuration tool:

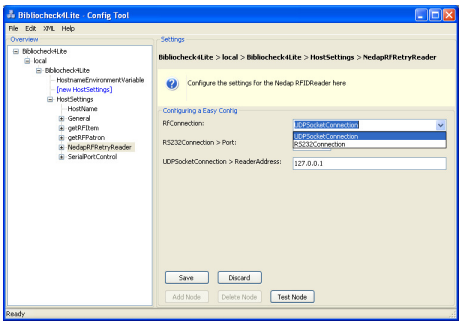
If the '+' is clicked, it will expand the menu.

In the configuration tool. Go to: *Bibliocheck4Lite > local > Bibliocheck4Lite > Hostsettings > NedapRFRetryReader.*



Step 14:
On the right side, click on the arrow nex to RFconnection, and choose *'RS232Connection'* from the dropdown-menu.

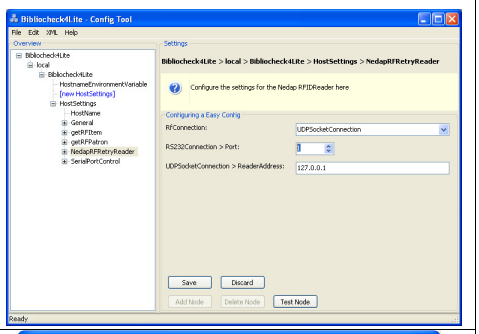
Step 15:
Click *'Save'.*



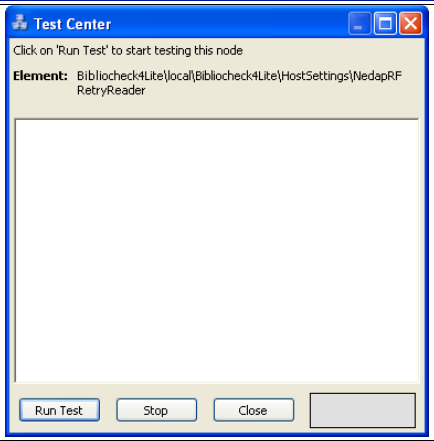
Step 16:
Select the correct COM-Port as the the proximity-reader is connected to.

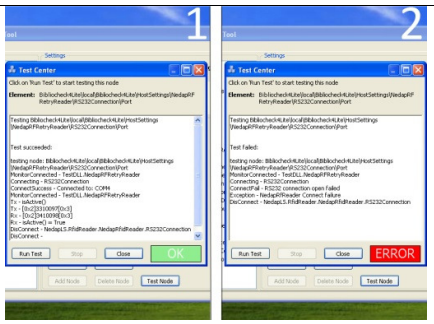
Step 17:
Click *'Save'.*

Step 18:
Click *'Test Node'.*



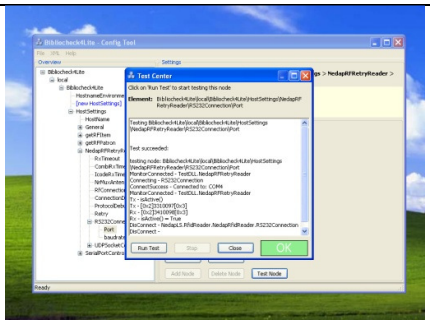
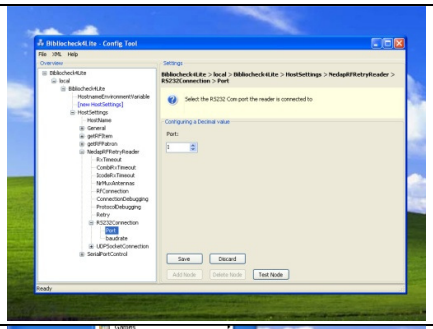
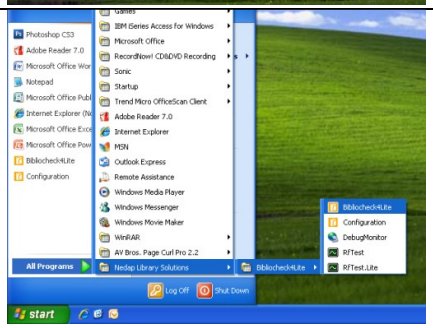
Step 19:
Click *'Run Test'***.**

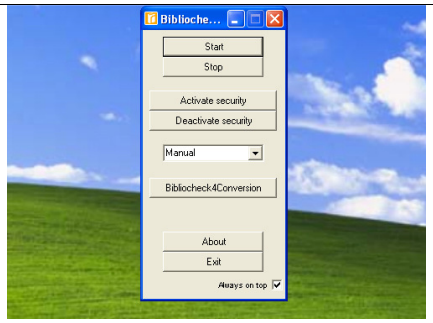
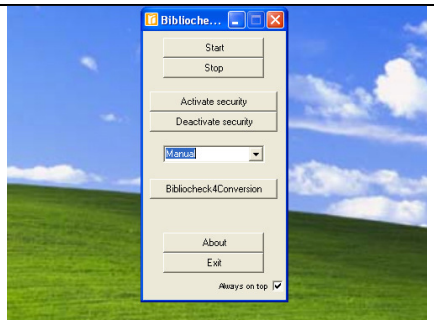
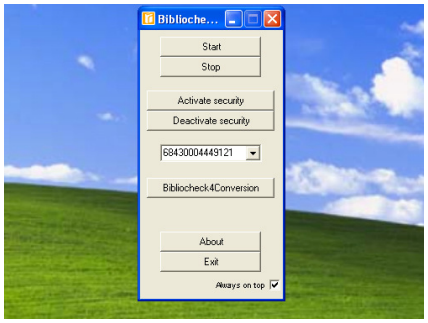


Step 20: If the right COM-Port is selected it will display the message: *'OK'*. *[1]* If the wrong COM-Port is selected it will display the message '*ERROR*'. *[2]*	

If an 'ERROR'-message occurs; repeat STEP 16 to 21 until the right COM-Port is selected.

Example:
Switch from COM-Port 1 to COM-Port 2 (or COM-Port 2 to 3, etc) and test the connection again. Repeat this procedure until you get the green 'OK' as result. Then, proceed to STEP 21.

Step 21: Click *'Close'*.	
Step 22: Quit the configuration tool by pressing the 'X' in the upper-right corner.	
Step 23: Go to: *Start > (All) Programs > Nedap Librix > Bibliocheck4Lite* and run '*Bibliocheck4Lite*'.	

Step 24: Click *'Start'* so the reader starts the data-reading process. If activated, the Bibliocheck4Lite icon in the right-hand corner of the taskbar will turn yellow.	
Step 25: Click *'Manual'*. This way it will be selected as the screenshot (blue and selected) displays. **Step 26:** Scan a RFID-tag by placing it on the proximity-reader's antenna *[A]*.	
Step 27: If the reader scans the RFiD-tag successfully, a chain of numbers will be displayed. (the numbers will be shown where *'Manual'* was selected during the previous step). **Step 28:** Click *'Exit'*. The proximity reader is now installed, configured and ready for use.	

2.2 contact & support

Want to know more about the solutions Nedap Librix has to offer?

Visit: *www.nedaplibrix.com*

In case of problems during the installation or use of the product; contact your local supplier.

chapter 3: frequently asked questions

1. **There is no serial-port located on the computer? What now?**
   Order a serial-to-USB convertor. This convertor makes it possible for the proximity reader to communicate through a USB-port.

2. **Help! 'Run configuration' wasn't checked while installing Bibliocheck4Lite. I can't find the configuration-tool anywhere.**
   Go to: *Start* > *(All) Programs* > *Nedap Library Solutions* > *Bibliocheck4Lite* > *Configuration*.

3. **It seems that I can't get the connection between the proximity reader and the computer to work properly. What is going wrong?**
   Make sure that you do not miss a COM-port while testing. Also, make sure you click the '*Save'* button every time after switching COM-ports.

4. **I've installed and configured the proximity reader following this Quick Installation Guide. Still, I can't seem to find the software anywhere using my normal account.**
   A) While installing the software, be sure to use an 'administrator rights'-account.
   B) Also, while installing, be sure to check the 'Everyone'-box.
   This way the software will be available for every account using the computer.
   Reinstalling the software will solve this problem.
   1. Go to: *Start* > *Run*.
   2. Type: *"appwiz.cpl"* (without the quotes).
   3. Remove Bibliocheck4Lite.

   Follow the **SOFTWARE INSTRUCTIONS** which are in this Quick Installation Guide.

5. **I've installed and configured the proximity reader following this Quick Installation Guide. Still it isn't performing well.**
   Make sure the reader isn't mounted under an table/desk which contains an metal frame. Metal causes the reader to not function properly.

chapter 4. fcc and ic declaration

FCC for USA according to Part 15 with FCC ID: CGDUPRO1356
IC for Canada according to RS-210 with IC: 1444A-UPRO1356

Part 15.19(3) and RSS_Gen Labelling
This device complies with part 15 of the FCC Rules and to RSS210 of Industry Canada. Operating is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

Cet appareil se conforme aux normes RSS 210 exemptés de license du Industry Canada. L'opération est soumis aux deux conditions suivantes :
(1) cet appareil ne doit causer aucune interférence, et
(2) cet appareil doit accepter n'importe quelle interférence, y inclus interférence qui peut causer une opération non pas voulu de cet appareil.

Warning (part15.21)
Changes or modifications not expressly approved by party responsible for compliance could void the user's authority to operate the equipment.

chapter 5. disclaimer

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