



USB Desktop Reader

Nedap Mifare dual technology USB reader

1. General

The USB Desktop reader is used for easy entering a DESFire, Mifare or Nedap badge number. The USB Desktop reader is connected to a free USB port on the PC where the data must be entered. Instead of entering the badge number by keyboard you only have to go to the correct field where the badge number must be entered and present the badge to the USB Desktop reader. The USB connection enables now that the badge number is automatically filled in. This prevents typing mistakes and saves time, especially for Mifare credentials, which badge numbers can be extremely long.



The USB Desktop reader uses a Convexs reader with USB converter, placed in a standard housing with a two colour indication LED. USB cable is included.

2. Connections/Installation

Connect the USB Desktop reader with the included USB cable to a suitable free USB port on the computer (be sure the USB port is capable for delivering sufficient power: 200mA). The new USB device will be discovered automatically as any USB device (a *USB Human Interface Device*). Now it is ready for use.



If the USB port is not suitable for delivering sufficient power (sometimes for Laptop computers) use an external powered USB hub.

2.1. Operation

As soon as the USB Desktop reader is installed, the badge number from the card presented to the USB desktop reader is sent (in keyboard format) to the PC.

Default the Nedap badge number or the Mifare / DESFire CSN number is sent. For other settings the configuration of the included Convexs must be changed (using a Convexs Configuration card).

2.2. LED Indications

At the front a two colour LED is positioned :

- Green USB Desktop reader is stand by
- Red Blinking: Card is read, data sent to USB

2.3. Card Credentials

Inside the USB Desktop reader a standard Convexs reader is used. This enables the USB desktop reader reading the same credentials as the Convexs reader:

- Nedap cards All available Nedap credentials
- Mifare cards CSN number or block data
- DESFire cards CSN number or file data
- Mifare Ultralight cards CSN number of card data

Date: 14-03-2017 Version 3.0 Document no.: 5268680

This information is furnished for guidance, and with no guarantee as to its accuracy or completeness; its publication conveys no license under any patent or other right, nor does the publisher assume liability for any consequence of its use; specifications and availability of goods mentioned in it are subject to change without notice; it is not to be reproduced in any way, in whole or in part, without the written consent of the publisher.
© Nedap N.V., P.O. Box 103, NL-7140 AC GROENLO, The Netherlands

2.4. Configurations

Default the USB Desktop reader is delivered with configuration NR9004.cfg for the build-in Convexs reader.

With this default configuration following credentials are read:

- Nedap cards Badge number without leading zeroes
No customer code is sent (default), no check on customer code
- Mifare cards CSN number

For other settings (e.g., reading Mifare block data, or filter on specific Nedap customer codes) the NR9004.cfg file must be changed by using Aereco.

New configurations can only be loaded using the Aereco Configuration card into the Convexs.

For changing the configuration check the Aereco installation manual for detailed information.

2.5. Testing the USB Desktop Reader

In case the used application is not receiving the correct (or no) characters, a simple test can be done by opening the program Notepad (or any text editor) on the computer and offering the badge to the USB Desktop reader. In Notepad you have to see the data sent by the USB Desktop reader. If no data is shown in Notepad, you have problems with the USB Desktop reader.

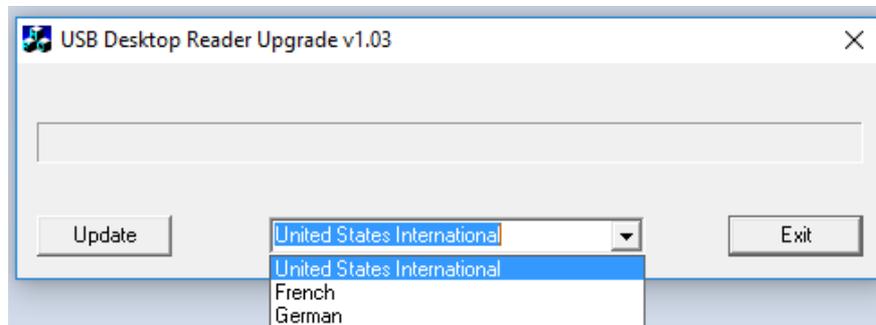
2.6. Changing Keyboard File Using USB Desktop Reader Upgrade Tool

Default the USB Desktop Reader sends United States International characters. These settings can sometimes be not compatible for some keyboards used in some countries. With the tool USB Desktop Reader Upgrade (available on www.nedapsecurity.com at Downloads/Tools) the USB Desktop Reader can be made compatible for some other countries. If your desired country setting is not yet included, contact Nedap.



This option is only available for USB Desktop Readers with firmware version 1.03 (delivered after ± October 2010).

Start the USB Desktop Reader Upgrade.exe, select the desired country setting and click Update.



SPECIFICATIONS USB Desktop reader (article no. 9864830)

Dimensions:	150 x 82 x 45 mm	Weight:	± 400 gr
Protection:	IP54	Power Supply:	Over USB
Environment:	Temperature: Operating: 0 – 55°C, Storage: -30 – 65°C	Power consumption:	200mA
Communication:	USB 2.0 full speed		
Indicators:	Two colour LED: Stand by (green) Identification (red)		
Antennas (internal):	Antenna 1: 120 kHz, Nedap XS compatible (PM and AM cards)	Detection distance UniXS card:	5 cm
	Antenna 2: 13,56 MHz, Mifare and DESFire compatible	Detection distance Mifare card:	2 cm

CABLE SPECIFICATIONS

USB:	USB cable included, max cable length: 5 meter
------	---

MORE INFORMATION: Contact your local Nedap supplier or check our website www.nedapsecurity.com