



**ABDA Card Reader ACR-320**  
**Operating Manual**  
Edition 19.04.2018

# Manual



**ABDA Card Reader ACR-320**  
**Operating Manual**  
Edition 19.04.2018

<b>1. Conncting to USB Female Plug .....</b>	<b>1</b>
<b>2. ACR-320 Utility .....</b>	<b>2</b>
General .....	2
Licence Agreement.....	2
ACR-320 Utility Installation .....	3
Start Window .....	3
Command Buttons .....	4
Configuration Parameter.....	4
Firmware Update .....	5
<b>3. Recycling of old devices and accessories .....</b>	<b>6</b>

## **We deliver not just our Mobile Terminals with Standard Software...**

but also develop to customers wishes

- Applications for this units
- PC Applications
- Hardware

and advise you on

- Creating concepts for mobile data collection,
- Questions coming up with barcode and RFID,
- Hardware problems,
- PC-Problems.

Please consult us with your queries or problems at:



aitronic GmbH  
Balhorne Feld 10  
D-33106 Paderborn

Germany

Telephone: +49 (0) 5251 29816-0  
Telefax: +49 (0) 5251 29816-40  
Internet: <http://www.aitronic.de>  
E-Mail: [info@aitronic.de](mailto:info@aitronic.de)

---

Copyright © aitronic GmbH, 2018

All Rights reserved, in particular all extracts which correspond to the translation, the reprint and reproduction by copying or similar methods. Delivery and technical changes are subject to change.

## 1. Connecting to USB Female Plug

When connecting to a PC's USB female plug the ACR-320 will be connected like a second keyboard as follows:

- It is required that the used operating system supplies USB HID. Windows 98, 2000, ME and XP supply this interface, Windows 95 and NT 4.0 doesn't.
- Connect the ACR-320 cable to a free USB female plug of the PC
- With WINDOWS 98/ME the HID driver has to be installed (WINDOWS CD), so that the ACR-320 will be recognized as a keyboard.

## 2. ACR-320 Utility

### General

The ACR-320 Utility is delivered free of cost when purchasing one or more ACR-320 Card Reader from company aitronic and is required for firmware update and configuration of the ACR-320 Card Reader.

ACR-320 Utility is executable from Windows XP and higher.

**Upon delivery, an ACR-320 is already fully configured for the affected customers, so that a subsequent configuration is not necessary. If the ACR-320 is not working as expected, the ACR-320 Utility is used to adapt the configuration accordingly.**

### Licence Agreement

You are allowed to install and use a copy of this software product on your computer.

You are not allowed to decompile or disassemble this software product.

You can carry over your user rights with a licensed software wholesome to a third person. Therefore it is required to carry over all parts and copies of this software ore to destroy the parts which are not carried over. Please notice that your are not further allowed to use the software after having carried over your user rights.

The reparation of further damages is excluded. This concerns especially to profit loss or data loss or missing usability of the software also as to direct or indirect following damages.

aitronic doesn't guarantee the errorfreeless of software or documentation.

In case of differing or missing arrangement in this lincence agreement aitronic reserves all further rights itself.

## ACR-320 Utility Installation

There are two possibilities for the ACR-320 Utility installation:

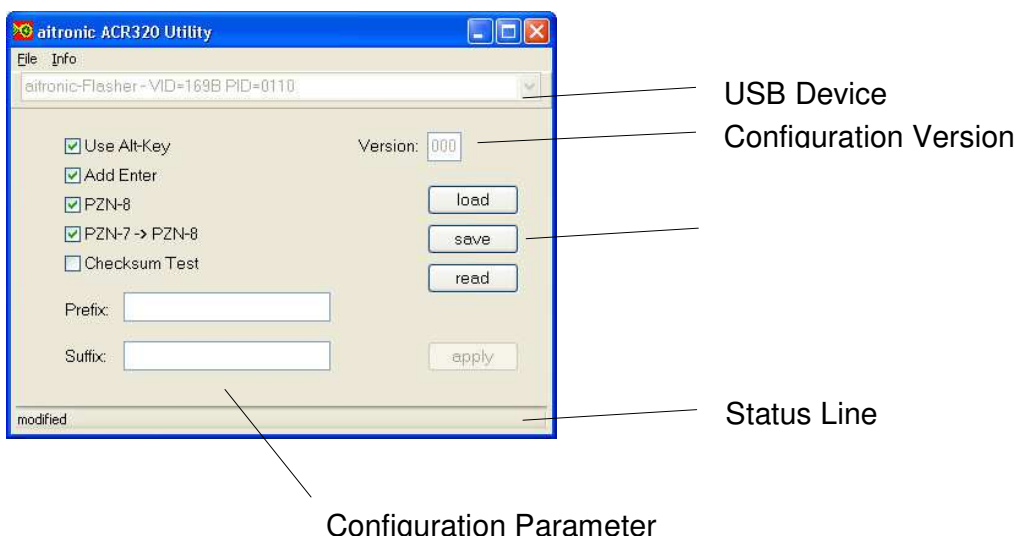
- Load ACR-320 Utility from the download area of our website [www.aitronic.de](http://www.aitronic.de), open it and follow the installation instructions.
- Use the aitronic installation CD, which contains the directory ACR-320 Utility, run ACR320Utility\_setup.exe and follow the installation instructions.

## Start Window



To perform the configuration process the ACR-320 has to be connected to an USB port. As soon as the LED of the ACR-320 flashes green the config button at the devices bottom side has to be pushed once only (i.e. with a paper clip). After that the LED will flashes alternately green and red.

The ACR-320 now resides in configuration mode and the configuration utility will show:



## Command Buttons

<b>Load</b>	reads a stored configuration (filename.acr). The status line will show the selected file.
<b>Save</b>	stores the displayed configuration.
<b>Read</b>	reads the current configuration from the ACR-320. The status line will show „Device Settings“.
<b>Apply</b>	writes the displayed configuration to the ACR-320. The status line will show „Device Settings“.

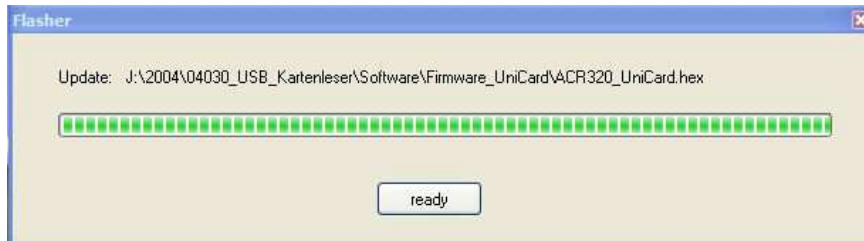
## Configuration Parameter

<b>Use Alt-Key</b>	„alternate Keys“ will be used for output. This is recommended because in this way each keyboard layout will be supported.
<b>Add Enter</b>	The output will be terminated with ENTER.
<b>PZN-8</b>	allows the usage of PZN-8-ABDA cards (these may be PZN-7 cards which were punched with an eighth coding)
<b>PZN-7-&gt;PZN-8</b>	PZN-7 cards will be output with a leading zero as PZN-8 number.
<b>Checksum test</b>	Performs a PZN check.
<b>Prefix</b>	Digits which will precede the ABDA number.
<b>Suffix</b>	Digits which will be output following the ABDA number.



## Firmware Update

The ACR-320 has to reside in configuration mode (refer to chapter „Start Window“). Choose menu item „File/Firmware Update“. A file selection dialog will be opened for choosing the firmware file.



A progress bar will show the update process. At the end of the update the buttons text will change from „please wait“ to „ready“. The programmierung is completed and the ACR-320 will change to „capturing mode“. All configuration settings are preserved after firmware update.

### 3. Recycling of old devices and accessories

#### Recycling of old electronic devices and accessories

According to the regulation 2002/95/EC of the European Union a producer of electronic products has to dispose old devices and accessories put on the market under his brand after the 13th August 2005 at his own expense. But in face of the date of purchase we offer to our customers to recycle all their devices they bought from the aitronic GmbH. We pay the costs for the disposal.

Please do not put old electric devices und accessories in the domestic waste or dispose it via any other kind of waste management. Just send us your old devices and accessories to the following address:

aitronic GmbH  
Balhorne Feld 10  
D-33106 Paderborn  
GERMANY / ALLEMAGNE

Please mark your shipment as a delivery of old devices!

If you have any questions do not hesitate to contact us.

fon +49 5251 29816-0  
email [info@aitronic.de](mailto:info@aitronic.de)