Scanner
CC200-SQ

Edition: 01/2020 - **Part No.:** 9003507

Copyright

This documentation as well as translation hereof are property of cab Produkttechnik GmbH & Co. KG.

The replication, conversion, duplication or divulgement of the whole manual or parts of it for other intentions than its original intended purpose demand the previous written authorization by cab.

Editor

Regarding questions or comments please contact cab Produkttechnik GmbH & Co KG.

Topicality

Due to the constant further development of our products discrepancies between documentation and product can occur.

Please check www.cab.de for the latest update.

Terms and conditions

Deliveries and performances are effected under the General conditions of sale of cab.

Table of Contents 3

1 Introduction

1.1 Instructions

Important information and instructions in this documentation are designated as follows:

Danger!
Draws attention to an exceptionally great, imminent danger to your health or life due to hazardous voltages.

Danger!
Draws attention to a danger with high risk which, if not avoided, may result in death or serious injury.

Warning!
Draws attention to a danger with medium risk which, if not avoided, may result in death or serious injury.

Caution!
Draws attention to a danger with low risk which, if not avoided, may result in minor or moderate injury.

Attention!
Draws attention to potential risks of property damage or loss of quality.

Note!
Advices to make work routine easier or on important steps to be carried out.

Environment!
Gives you tips on protecting the environment.

► Handling instruction.

▷ Reference to section, position, illustration number or document.

∗ Option (accessories, peripheral equipment, special fittings).

Time Information in the display.

1.2   Intended Use

- The device is intended exclusively as a peripheral device for the cab printers of the SQUIX series for checking of printed linear barcodes and 2D codes. For that purpose, it is possible to check only one barcode per label. Any other use or use going beyond this shall be regarded as improper use. The manufacturer/supplier shall not be liable for damage resulting from unauthorized use; the user shall bear the risk alone.

!   **Attention!**
     To operate the scanner the firmware version 5.29 or higher is needed!

- The device is manufactured in accordance with the current technological status and the recognized safety rules.
  However, danger to the life and limb of the user or third parties and/or damage to the device and other tangible assets can arise during use.
- The device may only be used for its intended purpose and if it is in perfect working order, and it must be used with regard to safety and dangers as stated in the operating manual.
- Usage for the intended purpose also includes complying with the operating manual, including the manufacturer's maintenance recommendations and specifications.

i   **Note!**
     All documentation can also currently be found in the Internet.

⚠   **Warning!**
     This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

1.3 Safety Instructions

- Warning stickers must not be removed, as then you and other people cannot be aware of dangers and may be injured.
- The device may only be used in a dry environment, do not expose it to moisture (sprays of water, mists, etc.).
- Do not use the device in an explosive atmosphere.
- Do not use the device close to high-voltage power lines.
- Perform only those actions described in this operating manual.
  Work going beyond this may only be performed by trained personnel or service technicians.
- Unauthorized interference with electronic modules or their software can cause malfunctions.
- Other unauthorized work on or modifications to the device can also endanger operational safety.
- Always have service work done in a qualified workshop, where the personnel have the technical knowledge and tools required to do the necessary work.

1.4 Environment

Obsolete devices contain valuable recyclable materials that should be sent for recycling.

▶ Send to suitable collection points, separately from residual waste.

The modular construction of the device enables it to be easily disassembled into its component parts.

▶ Send the parts for recycling.

▶ Take the electronic circuit boards to public waste disposal centers or to the distributor.

1.5   Technical Data

		CC200-SQ
Reading distance		45 - 145 mm
Reading angle		-15° to +15°
Codes per label		1
Check functions	GOODBAD	Checking the readability
	VERIFY	Checking the readability and comparing the result with the data received

Table 1   Technical data

Code	Type	Programming				Code size			
		cablabel S3		JScript		Min		Max	
						Width	Height	Width	Height
Aztec	2D	G	V	G	V	10	10	80	80
Codabar	Linear	G	S	G	S	20	3	150	80
Codablock F	2D	G	-	G	-	10	10	80	80
Code 128 A, B, C	Linear	G	V	G	V	20	3	150	80
Code 39	Linear	G	V	G	V	20	3	150	80
Code 39 Full ASCII	Linear	G	V	G	V	20	3	150	80
Code 93	Linear	G	V	G	V	20	3	150	80
Data Matrix	2D	G	V	G	V	5	5	80	80
EAN / GS1 Datamatrix	2D	G	-	G	-	5	5	80	80
EAN / UCC / GS1 128	Linear	G	-	G	-	20	3	150	80
EAN / UPC Appendix 2	Linear	G	-	G	-	20	3	150	80
EAN / UPC Appendix 5	Linear	G	-	G	-	20	3	150	80
EAN 13	Linear	G	V	G	V	30	3	150	80
EAN 18 / SSCC 18	Linear	G	-	G	-	30	3	150	80
EAN 8	Linear	G	V	G	V	20	3	150	80
GS1 Data Bar	Stacked	G	-	G	-	20	10	150	80
HIBC	Linear	G	-	G	-	20	3	150	80
Ident and Leacode Dpost AG	Linear	G	-	G	-	20	3	150	80

Code	Type	Programming				Code size			
		cablabel S3		JScript		Min		Max	
						Width	Height	Width	Height
Interleaved 2/5	Linear	G	V	G	V	20	3	150	80
ITF 14	Linear	G	-	G	-	20	3	150	80
JAN 13	Linear	G	V	G	V	20	3	150	80
JAN 8	Linear	G	V	G	V	20	3	150	80
Micro PDF 417	Stacked	S	S	S	S	20	10	150	80
Micro QR-Code	2D	G	V	G	V	15	15	80	80
MSI Plessey	Linear	S	S	S	S	-	-	150	80
PDF 417	Stacked	G	V	G	V	20	10	150	80
Postnet	Linear	S	S	S	S	-	-	150	80
PZN	Linear	G	-	G	-	20	3	150	80
QR-Code	2D	G	V	G	V	15	15	80	80
RSS 14	Linear	G	-	G	-	20	3	150	80
UPC A	Linear	G	V	G	V	20	3	150	80
UPC E	Linear	G	V	G	V	20	3	150	80
UPC E0	Linear	G	-	G	-	20	3	150	80
UPS Maxicode	2D	G	-	G	-	15	15	80	80
DotCode	2D	Not implemented							
FIM	Linear	Not implemented							
Plessey	Linear	Not implemented							

G ... Goodbad

V ... Verify

S ... Specific configuration requested

Table 2   Functionality depending on the code parameters

2.1   Unpacking

▶ Check stacker for damage which may have occurred during transport.

▶ Check delivery for completeness.

Contents of delivery:

• Scanner CC200-SQ with support and USB cable

• Assembly instruction

   ℹ️ Note!
Please keep the original packaging in case the device must be returned.

   ⚠️ Attention!
The device and printing materials will be damaged by moisture and wetness.

     ▶ **Set up label printer with scanner only in dry locations protected from splash water.**

2.2   Mounting the Scanner

> **!**   **Attention!**
> ► **Disconnect the printer from the electrical outlet before mounting the scanner.**
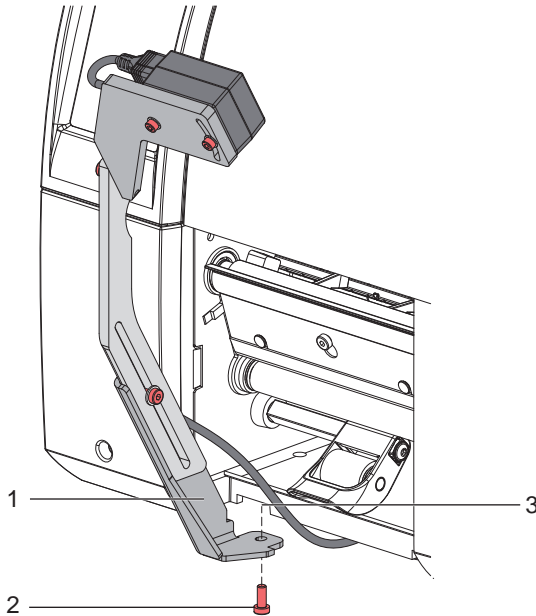
Figure 1   Mounting the scanner

1. Push the retainer (1) of the scanner to the cutout of the printer base plate (3).
2. Insert and tighten screw (2).
3. Insert the USB cable of the scanner into an USB port of the printer.
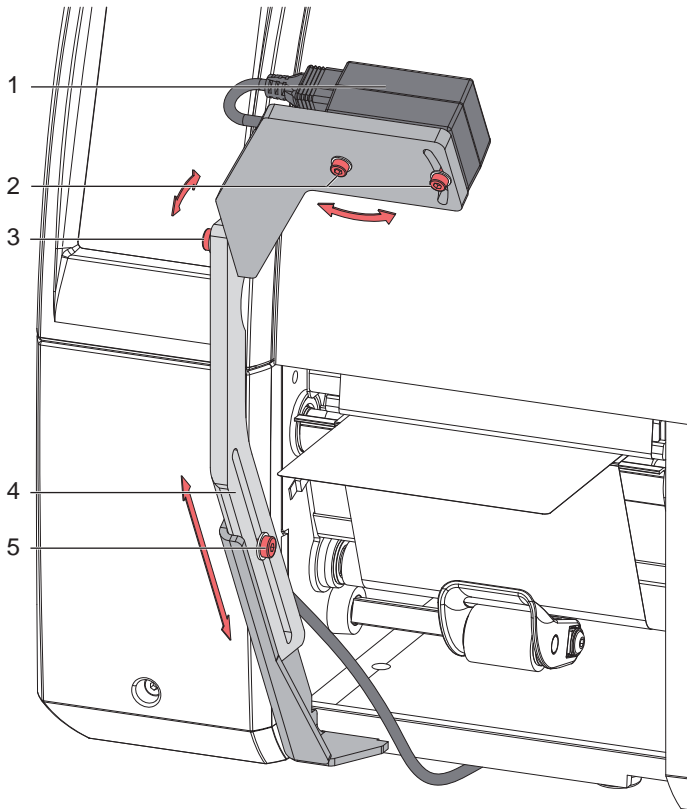
2.3   Adjusting the Scanner

Figure 2   Adjusting distance and angle

In order to adapt the scanner to the code to be checked, the scanner may be adjusted:

Adjusting the reading distance
• Adaptation to size and resolution of the code
▶ Loosen screw (5).
▶ Move the upper part of the retainer (4) with scanner.
▶ Tighten screw (5).

Adjusting the reading angle and inclination

• Adaptation to the position of small codes on the label
▶ Loosen 2 screws (2) to adjust the reading angle and screw (3) to adjust the inclination.
▶ Turn the scanner (1).
▶ Tighten 2 screws (2) and screw (3).

i **Note!**
The moment of checking during the label feed can be set in the software. ▷ **Programming Manual.**

3.1 Printer configuration

When the CC200-SQ is connected to the printer, a menu entry will appear in the printer's configuration menu where you can set up the device.

Figure 3 Verifying menu

▶ Start the menu.

▶ Select 🔘 *Setup* > 🔩 *Verifying*.

Parameter		Meaning	Default
📶	*Error handling*	Let you choose how a barcode read error will be handled by the printer.	*Error dialog*
		Error dialog: the printer stops printing and an error message is displayed.	
		Void label: the printer makes a backfeed and the label is void.	
		Error dialog & Void label: the printer stops printing, an error message is displayed and the printer makes a backfeed to void the label.	
📶	*Code checker*	*Live image*: shows the image seen by the scanner at the printer's display.	
		Trigger mode: activates the trigger on the scanner. Useful to determine the right reading angle of the scanner.	
		Monitor mode: when a print job is running, displays the value read by the scanner	

3.2   Software configuration

3.2.1   Code checking with JScript

Note!
For more details on JScript ▷ Programming manual

Commands list

+VERIFYn

Optional parameter for printer barcodes.

This parameter allows the printer to verify that the printed data are identical to the data sent.

"n" read offset in Y-position seen from the top of the barcode.

+GOODBADn

Optional parameter for printer barcodes.

This parameter allows the printer to verify the barcode readability, without verifying the data content.

"n" read offset in Y-position seen from the top of the barcode.

,GOODBADn

Optional parameter for graphic barcodes.

This parameter allows the printer to verify the barcode readability, without verifying the data content.

Mainly used with windows drivers.

"n" read offset in Y-position seen from the top of the barcode.

Examples

;+VERIFY

```
mm
zO
J
O R
H 75,0,T
D 0,0
S l1;0,0,30,30,100,100,1
B 8,10,0,CODE39+VERIFY0,15,.5,4;1234567
A 1
```

;+GOODBAD

```
mm
zO
J
O R
H 75,0,T
D 0,0
S l1;0,0,30,30,100,100,1
B 8,10,0,CODE39+GOODBAD0,15,.5,4;1234567
A 1
```

;,GOODBAD

```
mm
zO
J
O R
H 75,0,T
D 0,0
S l1;0,0,30,30,100,100,1
I 10,10,0,1,1,GOODBAD0;PICT1
A 1
```

3.2.2 Code checking with cablabel S3 Pro
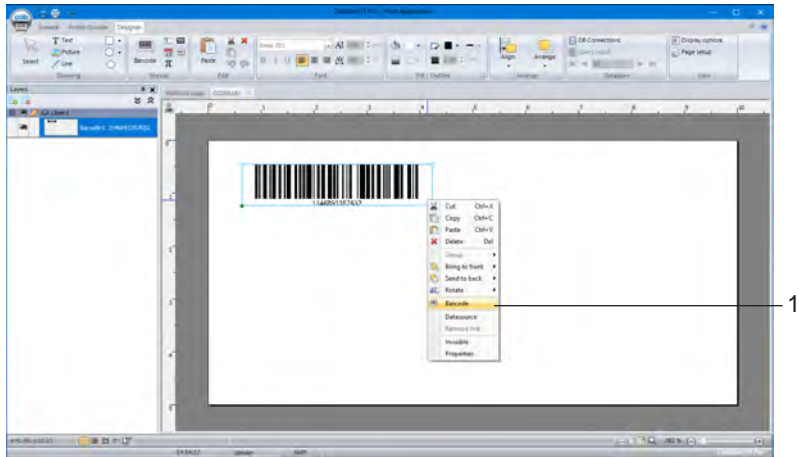
To use the scanner with cablabel S3 Pro:

Figure 4   Code checking with cablabel S3 Pro

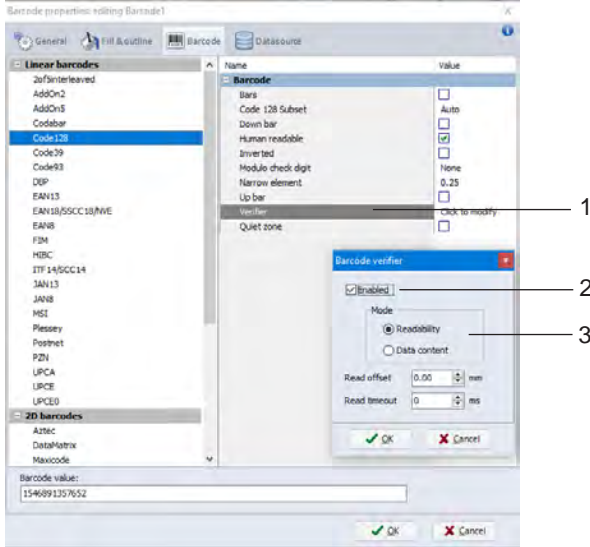▶ Right-click on the barcode and select "Barcode" option (1).

Figure 5 Barcode properties

▶ Click on "Verifier" (1).

▶ Activate parameter by checking "Enabled" (2).

▶ Select "Readability" or "Data content" (3).

▶ Change the read offset and read timeout if necessary.

i **Note!**
For printer barcodes both types of verification are available.
For graphic barcodes only the option "Readability" can be used.

▶ Insert transfer ribbon and labels ▷ Operator's Manual of the printer.

▶ Install the power and computer connections.

▶ Switch on the printer.

▶ For operation in peel-off mode press ⬇ to start the synchronization.
Remove the blank labels peeled-off during synchronization.

▶ Send a print job.
The first label will be printed. When the code to be checked reaches the
scan area, the scanner will be triggered.

• If the check result is positive, the next label will be printed.
In peel-off mode the label must be removed from the peel position.

• If the result is negative the error message *Scan read error* and a picture of
the area read appears.
After removing the faulty label the print can be repeated by pressing *Repeat*
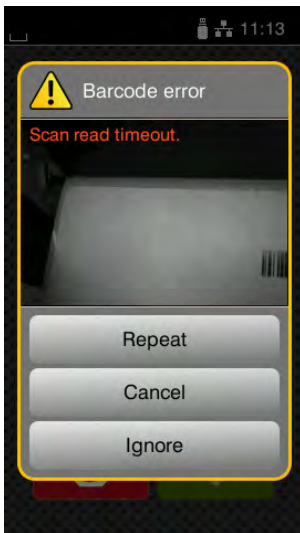*or* canceled by pressing *Cancel*.

Figure 6   Barcode read error

The Scanner CC200-SQ complies with the relevant fundamental regulations of the EU Rules for Safety and Health:

- Directive 2014/30/EU relating to electromagnetic compatibility
- Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment

EU Declaration of Conformity

▷ https://www.cab.de/media/pushfile.cfm?file=3648