



# *Use of Heron™ D130 Reader*



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# 1 Introduction

The document lists the required configuration and describes how to install the barcode reader to be used within the COBISS system.

## 2 Use of HERON™ D130 reader

The HERON™ D130 reader can be installed in the COBISS system as a keyboard extension. If you connect it to the VT510 terminal or to a PC, use the enclosed *Wedge cable* (Figure 1).



**Figure 1: Connecting the reader to a PC**

If you wish to connect the reader to a laptop, use a *PC notebook cable* instead of the enclosed cable (Figure 2). Usually, this must be ordered separately.



**Figure 2: Connecting the reader to a laptop**

If you wish to disconnect the cable, do so as indicated in Figure 3.



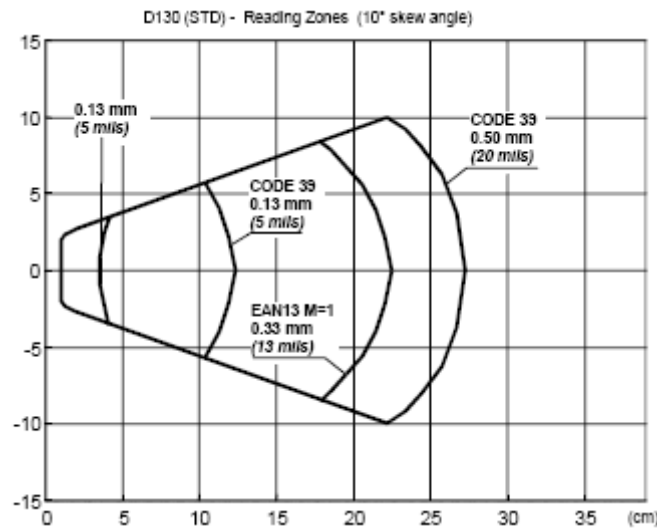
**Figure 3: Disconnecting the cable**

**TECHNICAL DATA AND READING DIAGRAM**

Figure 4 shows the reader's technical data, while Figure 5 shows the reader's reading zones.

Electrical Features	
Power Supply RS232 interface	5 Vdc ± 5%
Consumption:	
Maximum	180 mA @ 5 Vdc
Operating	155 mA @ 5 Vdc
Sleep mode	120 µA @ 5 Vdc
USB Suspend Mode	350 µA @ 5 Vdc
Max. Scan Rate	256 scans/sec
Reading Indicators	LED, Good Read Spot, Beeper

**Figure 4: Technical data**



**Figure 5: Heron™ D130 reading zones**

### 3 Setting up the Heron™ D130 reader for USB

Set up the reader when it is connected and read the barcodes on the right side of the manual from the top to the bottom. On the left side of the barcodes is the description of each step. Only perform each step once. If you make a mistake, start the procedure from the beginning.

The settings are for a USB cable.

**Table 1: Heron D130 reader setup**

1. Before you start the procedure, restore the reader *factory settings* (RESTORE DEFAULT).



2. Due to the restricted reader options<sup>1</sup>, restore the settings and add the required codes.

The default codes are: **Interleaved 2 of 5 (ITF)**, **EAN/UPC**, **CODE 39** and **CODE 128**.

3. **Enter configuration mode** (Enter Configuration).



4. Enable **CODE 93**  
(control without transmission of check digit).



5. Prepare the **setting for reading characters that are compatible with a German keyboard**<sup>2</sup>.



6. **Finish the procedure and save** the set-up parameters (Exit and Save Configuration).



With this setting, the reader will scan the following codes:

**Interleaved 2 of 5 (ITF), EAN/UPC, CODE 39, CODE 128 and CODE 93.**






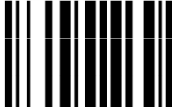



<sup>1</sup> The reader supports five barcode types at the same time.

<sup>2</sup> Keyboard language setup

## 4 Additional settings for type *Interleaved 2 of 5*

Set up the reader when it is connected (see recommendations in chapter 3 (Setting up the Heron™ D130 reader)). Use this setup if you want settings for scanning the code *Interleaved 2 of 5 (ITF)* for odd digit lengths.

**Table 2: Additional settings for barcode type Interleaved 2 of 5**

1. Enter configuration mode (Enter Configuration).	
2. Disable the barcode family 2/5 (disables the family).	
3. The change begins (Interleaved 2/5).	
4. The barcode digit length requires checking the control number and must not transmit it (Check digit control without transmission).	
5. Set the scanning length scope between 6 ...	 0
6.	 6
7. ... and 10.	 1
8.	 0
9. <b>Finish the procedure and save</b> the set-up parameters (Exit and Save Configuration).	

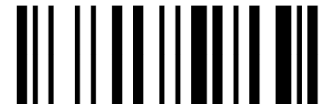


## 5 Setting up additional Enter key

If necessary, add the activation of the Enter key along with the scanned barcode to the setting.

**Table 3: Adding Enter key**

**Enter configuration mode** (Enter Configuration).



Enter

**Add barcode for Enter key.**



**Finish the procedure and save** the set-up parameters (Exit and Save Configuration).



## 6 Setting up the Heron™ D130 reader for WEDGE

Setup the **Heron™ D130** reader for Wedge connection along with the keyboard, see Figure 1.

**Table 4: WEDGE setup**

1. Before you start the procedure, restore the reader *factory settings* (RESTORE DEFAULT).



**Keyboard type:** For universal scanner use on any device, the IBM Terminal 3151 setup has proved to be most efficient (IBM Terminal 3151).



2. Due to the restricted reader options<sup>3</sup>, restore the settings to enable the required codes. **Enter configuration mode** (Enter Configuration).



6. Enable CODE 93.  
(control without transmission of check digit)



**Finish the procedure and save** the set-up parameters (Exit and Save Configuration).









<sup>3</sup> The reader supports five barcode types at the same time.

## 7 Testing correctly set-up parameters

To check if the parameters have been set up correctly, use the test barcodes in Table 5.

Table 5: Test barcodes

COBISS	Other barcodes
<p data-bbox="395 645 523 678"><b>CODE 93</b></p>  <p data-bbox="225 801 507 846"><b>220020102,1</b></p>	<p data-bbox="1054 678 1142 712"><b>EAN-8</b></p>  <p data-bbox="995 824 1201 853"><b>1234 5670</b></p>
<p data-bbox="316 920 604 954"><b>Interleaved 2 of 5</b></p>  <p data-bbox="264 1077 655 1122"><b>0 1 2 3 4 5 6 7 8 4</b></p>	<p data-bbox="1062 936 1166 969"><b>EAN-13</b></p>  <p data-bbox="927 1070 1262 1099"><b>1 234567 000992</b></p>
	<p data-bbox="983 1182 1214 1216"><b>Code 39 (Normal)</b></p>  <p data-bbox="959 1317 1238 1346"><b>1 7 1 6 2</b></p>
	<p data-bbox="1038 1413 1158 1447"><b>Code 128</b></p>  <p data-bbox="995 1547 1198 1576"><b>t e s t</b></p>

During the test, the reader will scan all barcodes. If the library uses the barcode type *Interleaved 2 of 5* with an odd number of digits<sup>4</sup> in the barcode, also carry out the steps from **Table 3**.

<sup>4</sup> **Explanation:** The barcode type **Interleaved 2 of 5** was used before using type CODE 93. In most cases the barcode had an odd number of digits (most frequently 7 digits). These codes were typically printed on dot matrix printers. In addition to 7-digit codes, codes with fewer or more digits were also in use. Therefore, we setup the barcode scope from 6 to 10 digits. During the reading test for **Interleaved 2 of 5** (Table 2), the number **012345678** will be displayed without the last **4**.