

## **Short description of DWT7133 demo application**

### **In general:**

- <TRIGGER> key confirms action
- <UP> key scrolls up through menu or data
- <DOWN> key scrolls down through menu or data, or is used to escape an action

### **Main Menu**

- 1 Scan Labels
- 2 Scroll through scanned data
- 3 System Menu
- 4 Delete scanned data
- 5 Transmit data to PC
- 6 Show software version

#### **1 Scan labels**

- Scan barcode
- The barcode and the type of the barcode are displayed and stored in a file.
- Pressing the <DOWN> key leaves scanning barcodes

#### **2 Scroll through scanned data**

- Use the <UP> key to go up through list
- Use the <DOWN> key to go down through list
- The <TRIGGER> key leaves scrolling through scanned data

#### **4 Delete scanned data:**

- The <UP> key confirms deleting data
- The <DOWN> key cancels deleting data

#### **5 Transmit data to PC**

- Pressing the <TRIGGER> key or the <UP> key starts transmission;
- Pressing the <DOWN> key cancels transmission
- The protocol and port settings that were set through the system menu are used.
- The data is not deleted
- After transmission finished, press any key to go back to the Main Menu.

#### **6 Show software version**

- Show the version of the software and of the operating system in the DWT7133
- Press any key to go back to the Main Menu.

(System menu shown on next page)

## **Short description of DWT demo application (continued)**

### 3 System Menu (\* indicates default setting)

- *1 Com Port (set DWT7133 COM port parameters)*
  - Baud rate (38400, 19200, 9600\*, 4800, 2400, 1200)
  - Parity (none\*, even, odd)
  - Data bits (7, 8\*)
  - Stop bits (1\*, 2)
  
- *2 Protocol (choose a transmission protocol)*
  - No protocol \*
  - NetO protocol (Opticon propriety)
  - RCV protocol (like in SLT800, SLT804)
  - Xmodem
  - Kermit
  - ACK/NAK protocol
  
- *3 Barcodes (set which type of barcodes must be scanned)*
  - Code 39\*
  - EAN\*
  - UPC\*
  - Interleaved 2 of 5\*
  - Industrial 2 of 5\*
  - Codabar\*
  - Code 93\*
  - Code 128\*
  - MSI / Plessey\*
  - Telepen\*
  - UK / Plessey\*
  - All add-ons (UPC, EAN, Codabar)
  - IATA code\*
  - Scode\*
  - All codes (supported by DWT7133, including menu labels)
  
- *4 Memory (shows how much data memory is left)*

(Data format described on next page)

## **Short description of DWT demo application (continued)**

### **Data format:**

Each record is stored in a file with the name DATA.FIL.

Fields in a record are:

<barcode 30 characters right padded with spaces>  
<barcode type 16 characters right padded with spaces>

Fields are separated by a comma.  
Each record ends with <CR><LF>.

So, a complete record is built as follows:  
<barcode>,<barcode type><CR><LF>

Example:  
012345678901234567890123456789,CD 39 FULL ASCII<CR><LF>

This data format is used with file transfer protocols and with the setting 'No Protocol'.

### **Data transmission:**

In all cases the DWT7133 will use the baud rate, parity, data bits, stop bits settings that were set in the 'comport' menu.

**Make sure that the ports settings on the DWT7133 correspond to the port settings used by the file transfer program on the PC.**

When 'Protocol' is set to a file transmission protocol the data is transmitted to a text file with the name DATA.FIL. The records are according to the format described above.  
The data can be read with for example NOTEPAD.EXE.

When 'Protocol' is set to 'No Protocol' data is sent one record after another without pauses.  
A program like PCPLUS, PCANYWHERE or HYPERTERMINAL is needed to catch the data from the PC's serial port and to display the data on the screen.

When 'Protocol' is set to 'ACK/NAK protocol' then each record must be acknowledged by an ACK character (HEX 6) or rejected by an NAK character (HEX 15). A record may be rejected up to 3 times, else transmission stops.

After the last record is acknowledged, the DWT7133 sends an EOT character (HEX 4) that indicates the end of transmission.

### **Tip for NetO:**

When you use the NetO protocol set the DWT 7133 port settings to 19200,N,8,1.  
On the PC you can then simply type: DOWNLOAD <ENTER> and DATA.FIL will be transferred to the PC. DOWNLOAD operates at 19200,N,8,1 by default.