Brief instructions for installation and use
of bar code application in Opticon OPH1005

1. Installation

1.1 Prerequisites

Installation of bar code applications in Opticon bar code collectors/hand held terminals require:

- USB driver for the appropriate cradle

- The AppLoad Windows application for uploading bar code device applications to the hand held device

- The latest operating system for the bar code device

- A bar code device application

The first three items are available on the Opticon web pages (http://www.opticon.com) under Service & Support / Software. Choose your product in the drop down list.

All installations in the Windows computer require administrative privileges.

1.2 Installation

1.2.1 Installation of ScanCom

Follow the steps below to install and configure ScanCom.

- First, uninstall any existing ScanCom version

- Make sure proper device drivers for the Opticon cradle are installed (USB cradles)

- Install the AppLoad application

- Run SetupScanCom and install the PC applications

- After installation, ScanCom should be available under the Windows Start menu

- Locate ScanCom in Windows Start menu and run ScanComConfig
  NOTE! Configuration parameters MUST unconditionally be set through ScanComConfig, before ScanCom can be used. Otherwise, ScanCom will not work! Specifically, do NOT edit the ScanCom.ini file with an editor. This will most likely cause malfunction of the system!

- The ScanComConfig window is displayed below. Set the proper parameters.
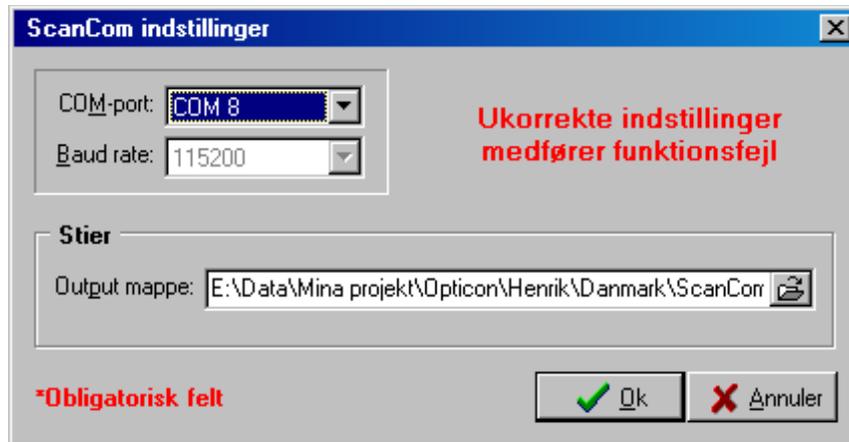
Picture 1 - ScanComConfig

- Choose the COM port to which the cradle is connected (COM3 or higher if USB cradle is used). The cradle COM-port is assigned by the operating system, if the cradle is connected by USB cable, and there is no way to predict which COM-port will be assigned. **The COM-port in Picture 1 is only an example!** Check for the proper COM-port by opening AppLoad, Settings/Port, or check under Windows Control Panel / System / Hardware / Device Manager / Ports (COM & LPT)

- The speed is locked at 115200 baud

- Choose folder for output data files

- Click OK

1.2.2 Bar code unit application installation

Follow the list below to install the bar code unit application:

- Start AppLoad

- Set the COM-port to which the cradle is connected through Settings / Port in the AppLoad menu. This is set to the first available COM-port by default. The available COM-ports are listed in the menu. **NOTE!** If a USB connected cradle is used, the COM-port is COM3 or higher

- Try setting current date and time in the bar code device by choosing Utilities / Send time in the AppLoad menu.

- If there are any error messages, check that the: correct COM port is chosen; bar code device is in the cradle; cables are properly connected, cradle is supplied with power through the power adapter, etc. If communications between the PC and bar code device is unsuccessful through repeated attempts, please contact your supplier.

- Set the device identifier (optional). On the OPH1005 device, press the keys 1, dot, and power on simultaneously. The System menu will be displayed. Choose 4, Settings. The Settings menu will be displayed. Choose 5, Terminal ID. Move the cursor to each field with the keys Q1, and Q2, resp. Set the correct number in each position from the keypad. Press the ENT key when finished. NOTE! The Q1 and Q2 keys are commonly used for moving the cursor.

- Install the bar code device application **scanner.hex** with the AppLoad application. Select File / Download in the menu and locate the appropriate file. There may be an error message at the first attempt (depending on bar code device model, and OS version). Try downloading again in this case. Otherwise, we recommend setting the bar code device in application download mode before loading the application. This is achieved through the System menu, 3 Downl. software.

2. Application usage instructions

2.1 Bar code device application

The bar code device application is used to read bar codes and enter data. The laser is turned on by pressing the middle key (SCAN) under the display. If no bar code has been read within 15 seconds, the laser is turned off. An accepted bar code results in a OK beep, and the device LED lights up briefly (green). An ongoing read may be interrupted by pressing the CLR key, which has the same effect as a read time-out. If a character or numerical key is pressed, the laser switches off, and the device enters input mode through the key pad. The previously entered character will be the first in the input buffer.

The device automatically enters data transfer mode when the device is put into the cradle, under condition that data exist. The PC application ScanCom is the communications counterpart in the PC, which must be active for data transfer to the PC to take place. After data have been successfully transferred, the existing data files in the bar code device are deleted.

When the bar code device is in the cradle, and not in communications mode, the device LED is permanently on. Red colour means that the device is charging. A green colour of the device LED means a fully charged bar code device.

Keys

Q1, and Q2 resp.	Used for navigating in lists and menus
SCAN	Starts the bar code reader laser
BS	Deletes the character to the left while editing
CLR	Clears the current entry in editing operations. Also turns the laser off
SHIFT	Makes letters and symbols available through the key pad. Pressing SHIFT toggles entry of alphanumeric characters, and digits.
ENT	Completes data entry
F1	Return to a previous level in the current routine.
F4	Exits the current routine to the menu.

2.2 ScanCom

NOTE! ScanCom MUST always be configured through ScanComConfig before ScanCom can be used (see above). No other means of setting up parameters are approved.

NOTE! An external application must be responsible for taking care of data arriving in the output folder within a few seconds after downloading data from the bar code device. That external application is UNCONDITIONALLY responsible for deleting each file in the output folder after processing.

ScanCom is minimized after start, and is permanently waiting for a bar code device being put into the cradle. That ScanCom is active is indicated with an icon in the Windows status field, and an entry in the Windows task bar.

NOTE! After transfer of a data file from the bar code device, ScanCom is waiting for a new bar code device to be put into the cradle.

3. File structure

3.1 File names

Files are named according to the following convention:

<type>_<terminal no>_YYYYmmddhhMMss.txt

where <type> is one of TAELL, BEST, LAGER, and <terminal no> is the terminal number set up in the OPH1005. The terminal number is 0000, if terminal numbers are not used.

3.2 File structure

File type TAELL:

<Location>,<Item no>,<Quantity><CR><LF>

or

<Item no>,<Quantity><CR><LF>

File type BEST:

<Order no>,<Item no>,<Quantity><CR><LF>

or

<Item no>,<Quantity><CR><LF>

File type LAGER:

><Order no>,<Item no>,<Quantity><CR><LF> (delivery in)

or

=<Item no>,<Quantity><CR><LF> (current item status)

or

<<Order no>,<Item no>,<Quantity><CR><LF> (delivery out)

where the items <Location>, <Order no>, or <Item no> may contain any character A-Z, digits, and characters -, /, $, @

and <Quantity> may be either positive integers > 0, or positive decimal numbers >= 0.001, having up to 11 significant digits (incl. decimal point). Decimal numbers use decimal point, not decimal comma.