



# IDM Corded (IDMxx0-4xx)

## QUICKSTART en



### 1 About this document

This Quickstart serves as a quick reference for the installation and operation of IDM hand-held scanners.

They are configured by scanning individual configuration codes or a sequence of configuration codes. Configuration codes are presented in this document; factory settings are indicated by the symbol ◆.

Supplementary and other relevant documents:

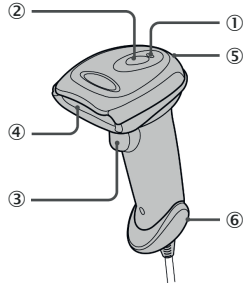
- Further language versions of this document (available online).
- Operating instructions for IDM hand-held scanners (available online).

These documents and additional information, such as application examples and downloads of associated documents and associated software, can be found on the SICK product page on the Internet at [www.sick.com/\[product\\_family\]](http://www.sick.com/[product_family]), for example for the product family IDM240: [www.sick.com/IDM240](http://www.sick.com/IDM240)

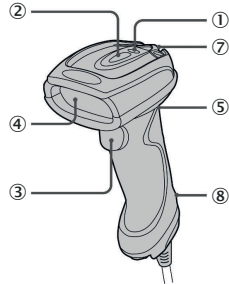
### 2 Product description

#### Product families

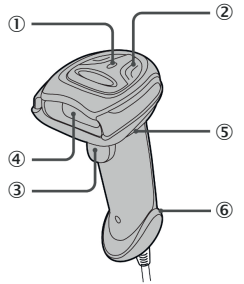
##### IDM140



##### IDM160/IDM260



##### IDM240



- |   |                     |   |  |
|---|---------------------|---|--|
| ① | Operating indicator | ⑤ | Beeper                                 |
| ② | Status indicator    | ⑥ | Unlocking opening for connecting cable |
| ③ | Trigger             | ⑦ | Mounting eye (metal)                   |
| ④ | Viewing window      | ⑧ | Mounting eye (plastic)                 |

### 3 Preparation

#### 3.1 Connecting/disconnecting the connecting cable

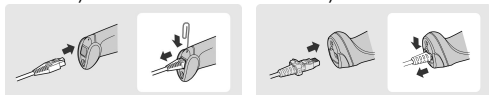
IDM hand-held scanners have a serial RS-232 interface and a USB interface.

► **IDM140/IDM240:** To disconnect the connecting cable, insert a straightened paper clip into the unlocking opening, push it in, and then pull out the released connecting cable.

► **IDM160/IDM260:** To disconnect the connecting cable, push the tab on the male connector downward and then pull out the released connecting cable.

##### IDM140/IDM240

##### IDM160/IDM260

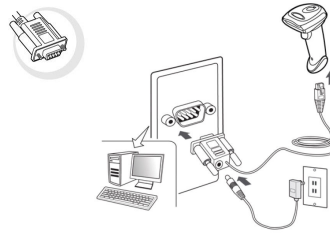


#### 3.2 Connecting the host interface

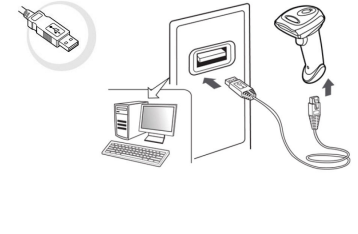
Various host devices can be connected to the hand-held scanners via a serial RS-232 interface or a USB interface.

- Establish the connection in line with the illustrations shown:

#### RS-232 serial



#### USB HID and USB COM



#### USB HID (human interface device):

The scanner functions as a generic USB keyboard.

#### Emulation of the USB COM port:

The scanner functions as a conventional serial RS-232 device.

Prior to use, you must install the USB COM software driver (available at [www.sick.com](http://www.sick.com)).

#### NOTE

If USB devices are not connected as USB HID (human interface device), but as VCP (virtual COM port) instead, the Windows API does not monitor the connection and does not re-establish the connection automatically if it is lost. The connection must be monitored in the application software (such as within the driver access layer) that the COM port uses as its data input source.

### 4 Setup

#### 4.1 IDM Set Up Tool software

The **IDM Set Up Tool 4.0** software is a Windows-based configuration software package for IDM hand-held scanners. Configuration via the software is an alternative to the configuration described below, which involves scanning configuration codes.

The software can be downloaded free of charge at [www.sick.com](http://www.sick.com). The IDM operating instructions contain a detailed description of the configuration using the **IDM Set Up Tool** software.

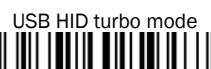
#### 4.2 Quick setup of host interface

To change the interface, scan one of the following configuration codes:

##### USB COM port emulation



##### USB HID standard mode ◆



#### 4.3 Quick setup of keyboard interface

The characters are output via the keyboard interface in the following sequence:

Preamble	Data length	Prefix ID	Scanned data	Suffix ID	Postamble	Data set suffix
1-15 characters	2-4 characters	1 or 3 characters	Variable	1 or 3 characters	1-15 characters	1 character

To make a quick change to the data set suffix when using the keyboard interface (USB), the configuration codes shown below can be used. Information on configuring other segments of the sequence, such as preamble or postamble, can be found in the operating instructions.

##### 4.3.1 Data set suffix



##### 4.3.2 Keyboard layout

The USA keyboard layout is set as default. To change the layout to another country, scan one of the codes below.





Latin America



Netherlands



Trigger mode ◆



Presentation mode



Japan



Sweden/Finland

#### 4.4 Quick setup of serial interface

The characters are output via the serial interface in the following sequence:

STX	Preamble	Data length	Prefix ID	Scanned data	Suffix ID	Post-amble	ETX	Data set suffix
1 char	1-15 chars	2-4 chars	1 or 3 chars	Variable	1 or 3 chars	1-15 chars	1 char	1 char

To quickly change the data set suffix when using the serial interface (RS-232 or USB COM port), the configuration codes shown below can be used. Information on configuring other segments of the sequence, such as preamble or postamble, can be found in the operating instructions.

##### 4.4.1 Data set suffix



None



LF



Tab



SPACE



CR ◆



CRLF

##### 4.4.2 Baud rate



115,200 BPS



57,600 BPS



38,400 BPS



19,200 BPS



9,600 BPS ◆



4,800 BPS



2,400 BPS



1,200 BPS

##### 4.4.3 Data frame



7, odd, 1



7, odd, 2



7, mark, 1



7, mark, 2



7, even, 1



7, even, 2



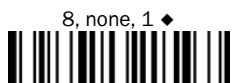
7, space, 1



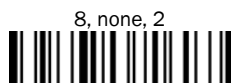
7, space, 2



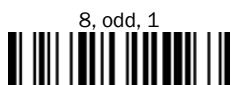
7, none, 2



8, none, 1 ◆



8, none, 2



8, odd, 1



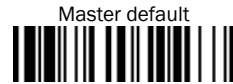
8, even, 1

#### 4.6 System commands

- **Factory settings:** After scanning the **Factory default** command, all parameters are reset to their default values.
- **Master default:** After scanning the **Master default** command, the scanner retains the following preset parameters: **Host interface selection**, **Keyboard interface setting** (with the exception of data set suffix, preamble, postamble), **Serial interface setting** (with the exception of data set suffix, preamble, postamble), and **Scanner/laser emulation setting**. The other parameters are reset to the default values.
- **Save configuration:** Once the scanner has been configured, you can save the configuration by scanning the **Save configuration** command. If you scan **User default**, the scanner loads the saved configurations. If you scan **Master default** or **Factory default**, the user-defined configuration is deleted.
- **Use configuration software:** Scanning the **IDM Set Up Tool (Host Link)** command enables the handheld scanner to be configured via the IDM Set Up Tool configuration software.



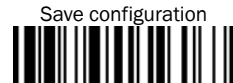
System information



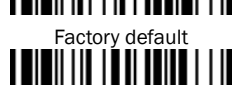
Master default



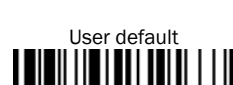
IDM Set Up Tool (Host Link)



Save configuration



Factory default



User default

#### 4.5 Quick setup of operating mode

- ▶ To activate the required operating mode, scan one of the following configuration codes:
  - **Trigger mode:** To read a bar code, the trigger must be actuated manually.
  - **Presentation mode** (for hands-free applications): The illumination of the handheld scanner is off until an object is detected in the reading range. The hand-held scanner then reads in bar codes automatically without actuating the trigger.