OPERATING INSTRUCTIONS

IDM Corded (IDMxx0-4xx)

MOBILE HANDHELD SCANNER

SICK
Sensor Intelligence.

Described products

IDM Corded Mobile handheld scanners (IDMxx0-4xx)

Manufacturer

SICK AG

Erwin-Sick-Str. 1

79183 Waldkirch

Germany

Legal information

Original document

This document is an original document of SICK AG.

Regulatory

CE	EN61000-3-2/ EN61000-3-3[1], EN61000-6-3, EN61000-6-2[2], IEC62368-1		
FC	Part 15B	VCCI	V-3/2011.04, TECHNICAL REQUIREMENTS, Class B ITE[3]
	CNS13438, CNS14336	2.4 FH 1 技術基準認証済み の無線装置を内蔵	MIC T401
	AS/NZS CISPR 22:2009 Class B	**LED Eye Safety**	IEC62471 Exempt group
	LP0002	**Laser Eye Safety**	IDM260: IEC60825-1 Class 1

[1] Relevant for IDM Corded Hand-held scanners with power supply.

[2] At the presence of high frequency interference in the frequency range of 15 MHz to 50 MHz there may be performance restrictions.

Safety Precautions

For safe and correct use, be sure to read the Safety Precautions in this manual before using the scanners.

LED Safety

The product is fitted with LEDs of risk group 0. The accessible radiation from these LEDs does not pose a danger to the eyes or skin.

Laser Safety (only IDM260)

The product is fitted with LEDs of risk group 0. The accessible radiation from these LEDs does not pose a danger to the eyes or skin.

CAUTION
Optical radiation: Class 1 Laser Product
The accessible radiation does not pose a danger when viewed directly for up to 100 seconds. It may pose a danger to the eyes and skin in the event of incorrect use.

- Do not open the housing. Opening the housing may increase the level of risk.
- Current national regulations regarding laser protection must be observed.

Caution – Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

It is not possible to entirely rule out temporary disorienting optical effects, particularly in conditions of dim lighting. Disorienting optical effects may come in the form of dazzle, flash blindness, afterimages, photosensitive epilepsy, or impairment of color vision, for example.

About This Manual

This user manual provides general instructions on setting up, operating, and troubleshooting Mobile handheld scanners. Please read this manual thoroughly before using the scanners for optimum performance.

- **Chapter 1**, **Getting Started**

  This chapter provides basic information on scanners, and the types of interface cables that users can choose from.

- **Chapter 2**, **Using the Scanner**

  This chapter explains the different operation modes and their functionalities. It also presents relevant scanner accessories.

- **Chapter 3**, **Configuration**

  This chapter introduces the various ways to configure corded Mobile handheld scanners, and discusses the default settings available.

- **Chapter 4**, **Data Formatting**

  The chapter presents the means by which corded Mobile handheld scanners can be programmed to execute data formatting tasks.

- **Chapter 5**, **Troubleshooting**

  This chapter offers examples of problems that users may encounter, as well as the possible causes and solutions.

- **Appendix**

  This Appendix contains explanations on the audio and visual feedback emitted by corded Mobile handheld scanners. It also provides frequently used command barcodes.

Other Documentation

You may also refer to the documents below for additional information.

- **IDM Quickstart**

  Quick introduction to scanner set-up and operation.

- **IDM Programming Manual**

  Programming instructions and command barcodes for Mobile handheld scanners.

- **IDM Serial Command Manual**

  Information on using serial commands to program Mobile handheld scanners.

- **IDM Scanner API Manual**

  API information for developers wishing to integrate Mobile handheld scanners into their systems.

Table of Contents

1 Getting Started

The goal of this chapter is to help users get acquainted with their corded Mobile handheld scanners. It contains unpacking instructions, as well as the scope of delivery. It also introduces the types of interface cables that users can choose from: USB, or RS-232.

1.1 Unpacking

Upon receiving the products, please verify the package labels and make sure that they match your order. When unpacking, please:

1. Check if the product kit content is correct.
2. Verify if any product was damaged during shipment.
3. If a product was damaged during shipment, report it immediately to your supplier. Keep the packaging materials as they are to be used when returning products.

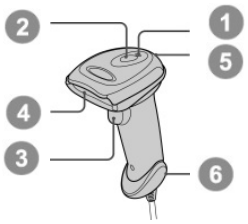
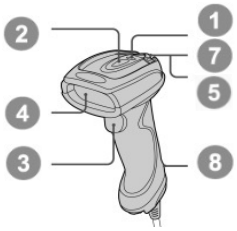
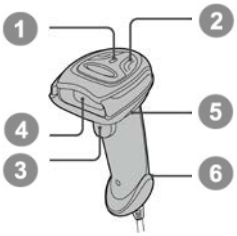
1.2 Scope of delivery

- Mobile handheld scanner
- Quickstart
- Interface cable (RS-232/USB-A) (kit component only)

1.3 Product overview

The IDM family includes 1D scanners with linear imagers and 2D scanners with area imagers. There are Bluetooth and corded versions available. The corded versions (IDMxx0-4xx) are described within this publication.

Furthermore, there are different models for variant target applications. IDMx4x can be used for general purpose applications whereas IDMx6x is designed for industrial environments.

<table>
<tr><th colspan="3">IDM Corded Scanners</th></tr>
<tr><td></td><td>IDM140
  </td><td rowspan="2">1 Operating indicator
2 Status indicator
3 Trigger
4 Viewing window
5 Beeper
6 Unlocking opening for connection plate
7 Mounting eye (metal)
8 Mounting eye (plastic)</td></tr>
<tr><td>IDM160/IDM260
  </td><td>IDM240
  </td></tr>
</table>

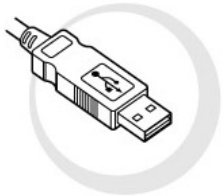
1.4 Technical specifications

Type	IDM140	IDM160	IDM240	IDM260
Field of application	General Purpose	Industrial	General Purpose	Industrial
Enclosure rating	IP 52	IP 65	IP 52	IP 65
Supported code types	1D, PDF417, Stacked		1D, PDF417, Stacked, 2D	
Code resolution	≥0.076 mm		≥0.07 mm	
Reading distance (at code resolution)	20 mm ... 850 mm (0.5 mm)		30 mm ... 400 mm (0.25 mm)	
Interfaces	USB (Keyboard Wedge & Com Port Emulation), RS-232, (Ethernet TCP/IP, PROFINET, PROFIBUS, DeviceNet) [1]			
Optical indicators	2 LEDs (operational status, good read)			
Vibration	No	Yes	No	Yes
Acoustic indicators	Beeper, disengageable			
Operating Voltage	5 V DC ±10 %			
Current consumption (Operating)	Typical 180 mA	180 mA (Vibrator disabled) 230 mA (Vibrator enable)	Typical 395 mA	Max. 395 mA (Vibrator disabled) Max. 420 mA (Vibrator enable)
Current consumption (Standby)	Typical 80 mA	Typical 80 mA	Typical 220 mA	Max. 220 mA
Light source	LED: visible red light (630 nm)		LED: visible red light (660 nm),	LED: visible red light (660 nm)
Aimer	LED line		LED Dot green	Laser cross (Laser Class 1)
Ambient operating temperature	-10 °C ... 50 °C	-20 °C ... 50 °C	-10 °C ... 50 °C	-20 °C ... 50 °C
Storage temperature	-40 °C ... 70 °C	-30 °C ... 70 °C	-40 °C ... 70 °C	-40 °C ... 70 °C

[1] Optional via external SICK connection modules

1.5 Connecting Scanner to Host Device

Kits contain either a USB or RS-232 cable, at the user's option. Your scanner can be connected to a USB or RS-232 port using the appropriate cable.

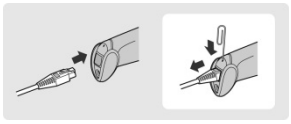
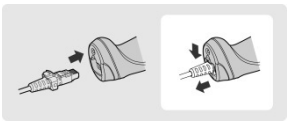


USB cable

RS-232 cable

1.5.1 Connecting to a USB port

1. To connect the scanner, plug the cable into the interface port of the scanner and connect it to the host USB port.
   To remove the cable from the scanner, straighten one end of a paper clip and insert it into the cable release hole to pull out the cable. For IDM160/260 series you need to push down the bracket of the enclosure clip and pull out the cable.

IDM140/240 Series	IDM160/260 Series	USB port
		

2. Configure your scanner's interface setting by scanning the applicable barcode below.

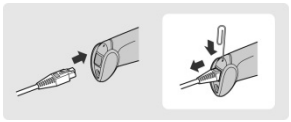
USB-HID Standard Mode ◆

USB-Com Port Emulation

USB-HID Turbo Mode

1.5.2 Connecting to RS-232 Serial Port

1. To connect the scanner, plug the cable into the interface port of the scanner and connect it to the host RS-232 port.
   To remove the cable from the scanner, straighten one end of a paper clip and insert it into the cable release hole to pull out the cable. For IDM160/260 series you need to push down the bracket of the enclosure clip and pull out the cable.

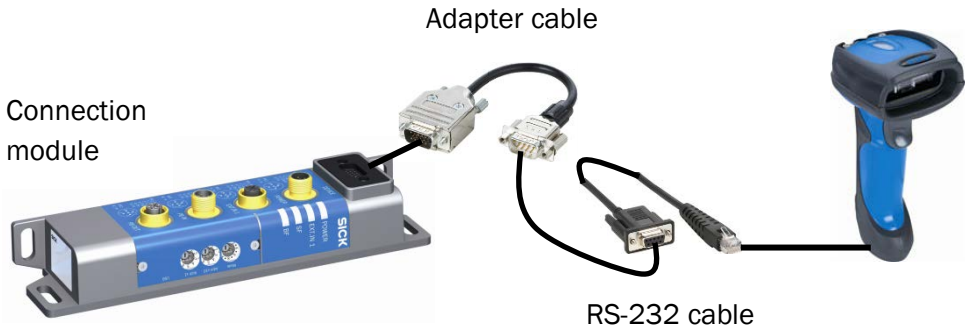
IDM140/240 Series	IDM160/260 Series	RS-232 Serial Port
		

2. Configure your scanner's interface setting by scanning the barcode below.

RS-232 serial

1.5.3 Industrial fieldbus

The IDM Hand-held scanners can be connected to industrial fieldbuses (such as PROFIBUS, PROFINET, Ethernet TCP/IP, DeviceNet, etc.) via SICK connection modules and an adapter cable. The adapter cable includes a voltage converter from DC 24 to 5 V for the voltage supply of the hand-held scanner, eliminating the need of a separate power supply.



For more information, please refer to Technical Information “Connection to fieldbus, CLV and Lector” (part no. 8022378) and the product page:
The call is made via the SICK Product ID: **pid.sick.com/{P/N}/{S/N}**
{P/N} corresponds to the part number of the product, see type label.
{S/N} corresponds to the serial number of the product, see type label (if indicated).

2 Using the Scanner

This chapter introduces different operation modes and their functionalities: trigger, presentation, alternative, level, force, toggle, diagnostic, low power, multiple read, and flash modes. Accessories such as the Smart Stand, hands-free stand, and universal holder are presented as well.

2.1 Operation Modes

Corded mobile handheld scanners offer different modes, which can be broadly categorized as either hands-free or hand-held.

Hands-Free

The scanner can read barcodes automatically without the user's intervention. The device can thus be placed on a stand (optional accessory) to execute its work, leaving the user's hands free for other tasks.

Hand-Held

To perform barcode readings, the scanner will require manual operation by the user (e.g. pressing the trigger to scan).

Users can choose the mode that best suits their needs. Please see the **IDM Programming Manual** for details.

2.1.1 Trigger Mode

Trigger mode is a hand-held scanning mode. It is also the factory default mode for corded scanners. Under this mode, the device will only execute a scan after its trigger is pressed. It will go into standby after each reading to save power. Thereafter, pressing the trigger will wake your scanner and simultaneously cause it to perform the next scan.

Trigger Mode ◆

Aiming Light Control

If you are using a 2D barcode scanner in trigger mode, you can choose from among 3 aiming light settings: Regular Aiming, Intelligent Aiming, and Delay Aiming Control.

Regular Aiming

The aiming light and LED illumination are only turned on when the trigger is pressed.

Intelligent Aiming

The aiming light is only turned on when the scanner is moved (as detected by the built-in motion sensor). The LED illumination and decoding process are activated by pressing the trigger. After 2 seconds of inactivity, the aiming light and LED illumination will shut off automatically. Press the trigger again to activate the aiming light.

Delay Aiming Control

A time period (or delay) can be set for users to aim their scanners. The aiming light will be turned on when the trigger is pressed and held. However, the LED illumination and decoding process will only be activated when the pre-determined period has elapsed. This setting can be used if you need more time to aim at a barcode before image capture. The time period is configured through the **Delay Aiming Time-out Control** parameter.

2.1.2 Presentation Mode

This is a hands-free mode. Its behaviour will vary depending on whether it's a 2D or 1D scanner.

2D scanners

The scanner's light source will be constantly on to help detect barcodes. Its aimer and the reading process will only be launched once a barcode-like image is detected.

1D scanners

Ambient light is used to detect barcodes. The light source will only be turned on when a barcode-like image is detected. When the scanner no longer detects such image, its light source will go off once the preset **light source on time** is up.

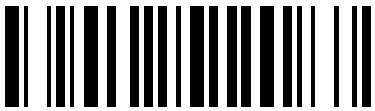
If the trigger is pressed during presentation mode, the scanner will go into trigger mode. The scanner will return to presentation mode after a period of inactivity (the duration of which can be adjusted through the **Hands Free Time-Out** parameter).

Presentation Mode

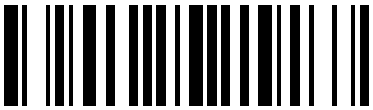
You can also switch between presentation and trigger modes using the Stand mount. By default, the scanner's **Presentation Auto-Sense** function is enabled, but if it was subsequently disabled, you must re-enable it. If the **Presentation Auto-Sense** function is enabled, your scanner will automatically enter presentation mode whenever placed on the Stand mount, and return to trigger mode when removed therefrom.

Presentation Auto-Sense Function

If the **Presentation Auto-sense** function is enabled on your scanner, the latter will automatically switch to presentation mode when placed on Stand mount. Once removed therefrom, the scanner will revert to trigger mode.



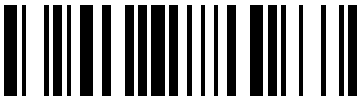
Enable Auto-sense ◆



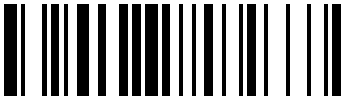
Disable Auto-sense

Presentation Background Lighting

With 2D scanners, you can enable or disable their background lighting in presentation mode. For example, to help the scanner detect barcodes, you can turn on background lighting if ambient light is low.



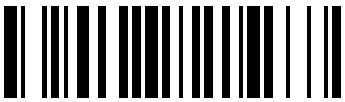
Presentation Background Lighting On ◆



Presentation Background Lighting Off

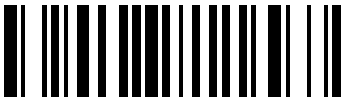
Presentation Sensitivity

Under presentation mode, if the level of ambient light is insufficient, the scanning process may be affected. You can choose from different levels of **Presentation Sensitivity** to account for your light conditions. The higher the level, the higher the barcode detection sensitivity.

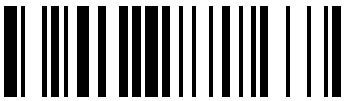


Level 1

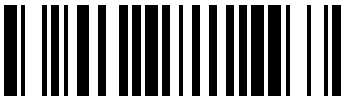
Level 5 ◆



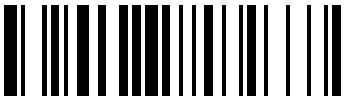
Level 2



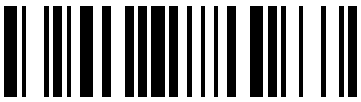
Level 6



Level 3



Level 7



Level 4

2.1.3 Alternative Mode

Under this hand-held mode, the scanner keeps its light source turned on until a preset time has elapsed. This time duration can be adjusted via the **Light Source On Time** parameter. Once the light source is turned off, you must press the trigger to turn it on again. After each good read, the timer for **Light Source On Time** is reset.

While the light source is on, the scanner will automatically read barcodes without the need to press its trigger.

Alternative Mode

2.1.4 Level Mode

When Level mode (hand-held) is selected, the scanner's light source will remain on until a barcode is decoded or the **Light Source On Time** duration has elapsed. Once the light source is off, pressing the trigger will turn it on again.

Level Mode

(for 1D models)

Level Mode

(for 2D models)

2.1.5 Force Mode

Force mode is another hands-free mode. The scanner's light source is constantly on to faciliate high speed barcode readings.

The device will switch to trigger mode when its trigger is pressed, but will return to force mode after a period of inactivity (the duration of which can be adjusted through the **Hands Free Time-Out** parameter).

Force Mode

(for 1D models)

Force Mode

(for 2D models)

2.1.6 Toggle Mode

In toggle mode (hand-held), the light source is constantly on and the scanner will read barcodes automatically with the need to press its trigger. The light source will go off when the trigger is pressed again.

Toggle Mode

(for 1D models)

Toggle Mode

(for 2D models)

2.1.7 Diagnostic Mode

This hand-held mode is specifically designed for diagnostic purposes. The scanner's light source (and aimer for 2D scanners) will be kept on, regardless of other parameter settings that may interfere with it, such as reread delay, redundancy, etc. Readings will be performed automatically by the scanner without the need to press its trigger.

Diagnostic Mode

(for 1Dmodels)

Diagnostic Mode

(for 2D models)

2.1.8 Low Power Mode

The purpose of this mode (hand-held) is to help reduce power consumption. The scanner will go into an idle state after each barcode reading. Pressing the trigger will wake the scanner and cause it to perform the next scan.

Low Power Mode

2.1.9 Multiple Read Mode

Multiple Read Mode is only available on 2D barcode scanners. Under this hand-held mode, users can press and hold the trigger to scan multiple barcodes successively. The device will beep after each good read.

Multiple Read Mode

The two functions below can be enabled under this mode to enhance scanning accuracy and prevent the output of repeat data.

Center Alignment

The scanner will only decode the barcode that is closest to its aiming light.

Unique Barcode Reporting

The scanner will only output data from each barcode once during the same scanning cycle (trigger key pressed and held without release), even if a barcode was read multiple times. This will prevent the output of repeat data.

2.1.10Flash Mode

This is a hands-free mode that is only available on linear and aser barcode scanners. Under this mode, the scanner will automatically “flash” its light source to detect barcodes. The **Flash Duty Cycle** parameter controls flashing frequency. If a barcode-like image is detected, the scanner will turn on its light source and scan the image.

The scanner will switch to trigger mode when you press its trigger. It will revert back to flash mode after a period of inactivity. You can modify this time period through the **Hands Free Time-Out** parameter.

Flash Mode

2.2 Accessories

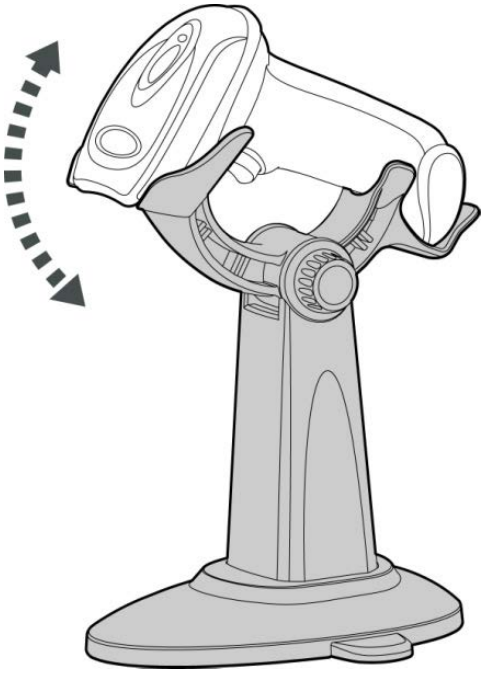
Increase your work efficiency with accessories that are specially made to support and faciliate scanning operations.

2.2.1 Stand mount

The Stand is designed to hold scanners in place for hands-free applications. It is compatible with all IDM models. The curved holder is adjustable, enabling users to position their scanners at different angles. The base is equipped with foldable side flaps to provide extra stability when needed.

Instantly Switch between Presentation and Trigger modes

If the **Presentation Auto-Sense** function is enabled, your scanner will automatically enter presentation mode whenever placed on the Stand mount, and return to trigger mode when removed therefrom.

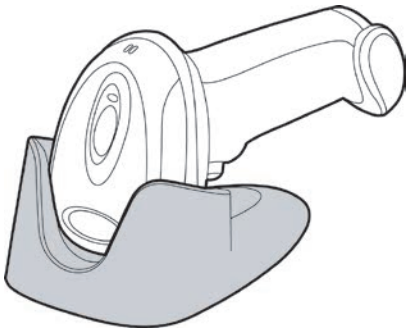


Note

The **Presentation Auto-Sense** function is enabled by default on IDM scanners.

2.2.2 Universal Holder

The Universal Holder retains your scanner when it is not in use, and protects its lens from scratches. This holder's sleek form factor will complement any decor, merging style and functionality.



3 Configuration

This chapter introduces the various tools that users have at their disposal to configure Mobile handheld scanners, namely: IDM set-up tool 4.0, iCode (configuration barcode), and command barcodes. It also discusses the factory and user default settings.

3.1 Configuring Your Scanner

Below are the different ways to configure or modify the settings on your devices.

3.1.1 IDM set-up tool 4.0

The IDM set-up tool 4.0 is an intuitive, PC-based software tool that is expressly designed for the management of Mobile handheld scanners. It allows users to set or change device parameters, upgrade firmware, generate iCodes for single scan configurations, and write programming scripts for advanced data formatting (Data Script Premium). The IDM set-up tool 4.0 can be downloaded from the product page:
The call is made via the SICK Product ID: **pid.sick.com/{P/N}/{S/N}**
{P/N} corresponds to the part number of the product, see type label.
{S/N} corresponds to the serial number of the product, see type label (if indicated).

3.1.2 iCode

The iCode is a configuration barcode that carries one or several commands. It is generated through the IDM set-up tool 4.0. Simply choose your desired parameters, and click on the “iCode” button to generate a comprehensive iCode that integrates them all. Thereafter, scan the iCode to apply these parameters onto your scanner. Instead of using multiple command barcodes to configure their devices, users can achieve the same results with one iCode, saving time and effort.

3.1.3 Command Barcodes

Numerous command barcodes are provided to help users set up their devices. Command barcodes can be found in many documents, but the principal source is our **IDM Programming Manual**.

3.2 Default Settings

Default settings for Mobile handheld scanners are **Factory Default** or **User Default**.

3.2.1 Factory Default

Scan the **Factory Default** barcode to erase all user-defined parameters and set the scanner to back to factory defaults.

Factory Default

3.2.2 User Default

User-defined parameters can be saved as user defaults by scanning the **Save User Default** barcode.

If **no** user-defined parameters were saved, factory defaults will be implemented on the scanner each time the **User Default** barcode is scanned.

If user-defined parameters were saved as user defaults, they will be implemented on the scanner each time the **User Default** barcode is scanned.

Save User Default

User Default

4 Data Formatting

In addition to scanning and content output, data formatting is also a common task performed by barcode scanners. The scanners can be programmed to execute data formatting operations through DataWizard, Data Script Premium, and DataWizard Condensed. This chapter presents an overview of each of these methods.

4.1 Configuring Your Scanner for Data Formatting

Below are the different ways to configure a Mobile handheld scanner for data formatting tasks.

4.1.1 DataWizard

DataWizard is the standard data formatting feature within the IDM set-up tool 4.0. With it, users can easily configure items such as preamble, postamble, record suffix, data transmission and other parameters. For advanced data formatting, please see Data Script Premium below.

4.1.2 Data Script Premium

The requirements for barcode scanning are increasingly complex and diversified. Oftentimes, regular configuration tools may lack the capacity to meet enterprise-level demands. Data Script Premium fills the gap by offering a flexible way to program scanners for elaborate data formatting.

An advanced feature of the IDM set-up tool 4.0, Data Script Premium allows users to write programming scripts and load them into scanners for execution. The script language used is similar to BASIC, and easy to learn for experienced programmers. Data Script Premium also has various built-in functions to help with script development. Mobile handheld scanners can thus be instructed to perform intricate data processing tasks, such as parsing captured information in accordance with a host system's requirements. Details such the preamble, postamble, suffix, quantity, time stamp and other data can also be inserted or modified before output.

4.1.3 Condensed Data Wizard

The Condensed DataWizard is a set of command barcodes designed to program Mobile handheld scanners for data editing operations. Simply choose and scan the relevant barcodes, as applicable. Please see the **Programming Manual** for details.

5 Troubleshooting

This chapter outlines the basic troubleshooting procedures for Mobile handheld scanners. It offers examples of problems, as well as their possible causes and solutions. The goal of this chapter is to help you identify and resolve some of the more common issues that a user may encounter.

Below are examples of scanner issues, as well as possible causes and solutions.

Unable to power on scanner / LED lights won't turn on

Possible Causes:

- Scanner is not turned on.
- Scanner is not receiving adequate power.

Possible Solutions:

- Make sure your scanner's cable is properly attached on both ends.
- Turn on your host device so that the scanner may receive power through its port.
- Make sure the port used delivers enough power.

Scanner is reading barcodes, but data isn't transmitted to host device

Possible Causes:

- Scanner's host interface setting is not properly configured.
- The scanner's cable is loose on one or both ends.

Possible Solutions:

- Re-configure your scanner's host interface setting.
- Make sure your scanner's cable is properly attached on both ends.

Scanner is unable to read barcodes / Poor scanning rate

Possible Causes:

- Scanner is not programmed to read the barcode's symbology.
- Barcode is physically unreadable.
- Distance or angle of scanner is unsuitable.
- Scanner's scan window is obstructed

Possible Solutions:

- Enable the applicable barcode symbology on your scanner.
- Barcode may be too damaged, stained, distorted, poorly printed, or small to be read. Reflective surfaces may also impede scanning.
- Re-adjust your scanner's distance or angle.
- Remove anything that may obstruct the scan window. Gently clean off any dust, grease, or liquid with a soft cloth. Be careful not to scratch or damage the scan window.

Scanned data is incorrectly displayed on host device

Possible Causes:

- Scanner's host interface setting is not properly configured.
- Scanner's keyboard layout setting is not properly configured.

Possible Solutions:

- Re-configure the scanner's host interface setting.
- Re-configure the scanner's keyboard layout setting.

6 Appendix

The Appendix contains explanations on the audio and visual feedback emitted by corded Mobile handheld scanners. It also includes the command barcodes that are frequently used for device configuration, such as those pertaining to host interface, keyboard layout, system commands, etc.

6.1 Audio & Visual Indications

Event	Link Indicator	Beeping
Power on	Steady blue	Off
Good read	1 green flash	1 good read beep
Under configuration	Steady red	Off
Upgrading state	Steady red	Clicking sounds

6.2 Quick Set Commands

6.2.1 Host Interfaces

A separate driver needs to be installed on your host device for **USB Com Port Emulation**, unless the host device is running **Windows 10**. The driver can be downloaded from the product page:
The call is made via the SICK Product ID: **pid.sick.com/{P/N}/{S/N}**
{P/N} corresponds to the part number of the product, see type label.
{S/N} corresponds to the serial number of the product, see type label (if indicated).

RS-232 Serial

USB HID Standard Mode ◆

USB HID Turbo Mode

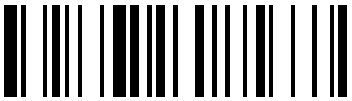
USB HID Legacy Mode

USB Com Port Emulation

6.2.2 Keyboard Layouts

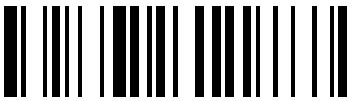
For details on code page functions, please refer to the Programming Manual.

USA ◆



Latin America

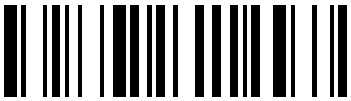
UK



France

Netherlands

Canadian French

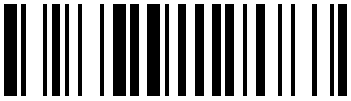


Germany

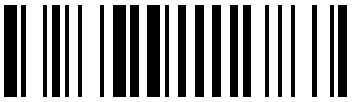
Japan

Spain

6.2.3 Operation Modes



Trigger Mode ◆



Presentation Mode

6.2.4 System Commands

System Information

Save User Default

IDM set-up tool Host Link

User Default

Factory Default

6.2.5 Option Codes

0

1

2

3

4

5

6

7

8

9

A

B

C

D

E

F

FIN (Finish)

Abort

END (Exit)

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Australia
Phone +61 (3) 9457 0600
1800 33 48 02 – tollfree
E-Mail sales@sick.com.au

Austria
Phone +43 (0) 2236 62288-0
E-Mail office@sick.at

Belgium/Luxembourg
Phone +32 (0) 2 466 55 66
E-Mail info@sick.be

Brazil
Phone +55 11 3215-4900
E-Mail comercial@sick.com.br

Canada
Phone +1 905.771.1444
E-Mail cs.canada@sick.com

Czech Republic
Phone +420 234 719 500
E-Mail sick@sick.cz

Chile
Phone +56 (2) 2274 7430
E-Mail chile@sick.com

China
Phone +86 20 2882 3600
E-Mail info.china@sick.net.cn

Denmark
Phone +45 45 82 64 00
E-Mail sick@sick.dk

Finland
Phone +358-9-25 15 800
E-Mail sick@sick.fi

France
Phone +33 1 64 62 35 00
E-Mail info@sick.fr

Germany
Phone +49 (0) 2 11 53 010
E-Mail info@sick.de

Greece
Phone +30 210 6825100
E-Mail office@sick.com.gr

Hong Kong
Phone +852 2153 6300
E-Mail ghk@sick.com.hk

Hungary
Phone +36 1 371 2680
E-Mail ertekesites@sick.hu

India
Phone +91-22-6119 8900
E-Mail info@sick-india.com

Israel
Phone +972 97110 11
E-Mail info@sick-sensors.com

Italy
Phone +39 02 27 43 41
E-Mail info@sick.it

Japan
Phone +81 3 5309 2112
E-Mail support@sick.jp

Malaysia
Phone +603-8080 7425
E-Mail enquiry.my@sick.com

Mexico
Phone +52 (472) 748 9451
E-Mail mexico@sick.com

Netherlands
Phone +31 (0) 30 229 25 44
E-Mail info@sick.nl

New Zealand
Phone +64 9 415 0459
0800 222 278 – tollfree
E-Mail sales@sick.co.nz

Norway
Phone +47 67 81 50 00
E-Mail sick@sick.no

Poland
Phone +48 22 539 41 00
E-Mail info@sick.pl

Romania
Phone +40 356-17 11 20
E-Mail office@sick.ro

Russia
Phone +7 495 283 09 90
E-Mail info@sick.ru

Singapore
Phone +65 6744 3732
E-Mail sales.gsg@sick.com

Slovakia
Phone +421 482 901 201
E-Mail mail@sick-sk.sk

Slovenia
Phone +386 591 78849
E-Mail office@sick.si

South Africa
Phone +27 10 060 0550
E-Mail info@sickautomation.co.za

South Korea
Phone +82 2 786 6321/4
E-Mail infokorea@sick.com

Spain
Phone +34 93 480 31 00
E-Mail info@sick.es

Sweden
Phone +46 10 110 10 00
E-Mail info@sick.se

Switzerland
Phone +41 41 619 29 39
E-Mail contact@sick.ch

Taiwan
Phone +886-2-2375-6288
E-Mail sales@sick.com.tw

Thailand
Phone +66 2 645 0009
E-Mail marcom.th@sick.com

Turkey
Phone +90 (216) 528 50 00
E-Mail info@sick.com.tr

United Arab Emirates
Phone +971 (0) 4 88 65 878
E-Mail contact@sick.ae

United Kingdom
Phone +44 (0)17278 31121
E-Mail info@sick.co.uk

USA
Phone +1 800.325.7425
E-Mail info@sick.com

Vietnam
Phone +65 6744 3732
E-Mail sales.gsg@sick.com

Detailed addresses and further locations at **www.sick.com**

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