Heron™ HD3430
2D Area Imager

Quick Reference Guide

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- END -

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NOTES

Heron™ HD3430

Using the Heron™ Series Readers

The Heron™ HD3430 Linear Imager has several new features:

- the reader's attractive illumination (top and sides) selectively changes color to indicate its status.
- the option to use personal jingles (a short user-defined tune uploaded via Datalogic Aladdin™ configuration software) instead of the normal beep tone.

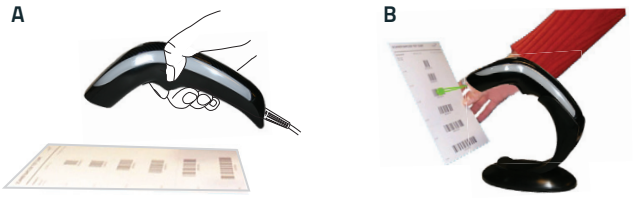
Heron™ readers automatically scan bar codes **at a distance**. Simply aim and pull the trigger. Code scanning is performed along the center of the light bar emitted from the reading window. This bar must cover the entire code.

Effective scanning is obtained by tilting the scanner with respect to the bar code to avoid direct reflections, which impair the reading performance (see Figure 1A below). A successful read is signaled by an audible tone or a jingle (previously uploaded), plus a good-read green spot. The side and upper illuminators become green (unless another color has been configured with Aladdin configurator).

Once the reader is correctly inserted into the stand, it is immediately ready to automatically read any code present in its reading area without pressing the trigger. Furthermore, a green aiming light is continuously emitted to facilitate the positioning of the bar code to be read (shown in Figure 1B).

To guarantee single code reading, consecutive reading of the same code requires the code to be removed from the reading area (no decoding) before the reader will accept the same code again.

Figure 1. Correct positioning of scanner

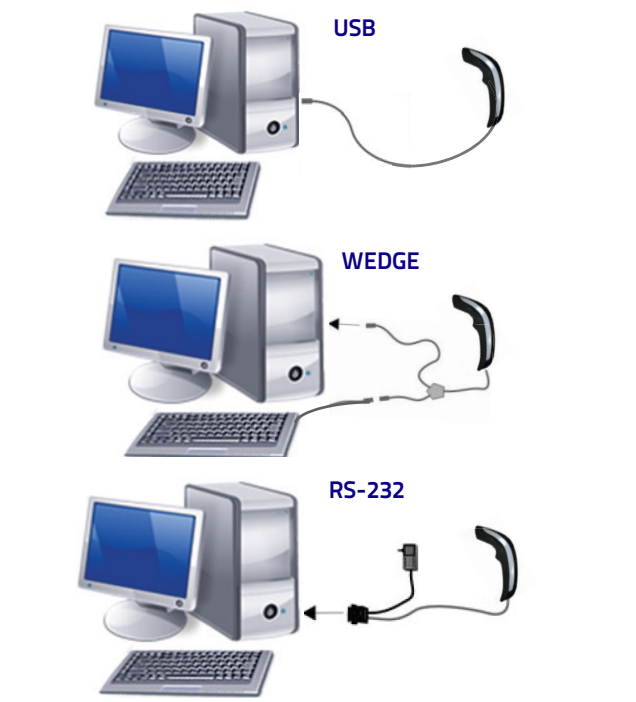


Setting Up the Reader

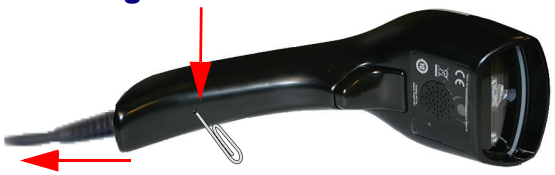
Follow the steps below to connect and get your reader up and communicating with its host.

1. Connect the Cable to the reader and the Host as shown below.
2. Configure the Interface (see page 7).
3. Program the Reader starting on page 22 (optional, as needed).

Connecting to the Host Interface



Disconnecting the Cable

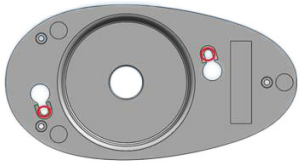


Stand Installation

The stand can be affixed to a flat surface such as a desk or countertop. If needed, it can also be easily removed.

To install the stand:

1. Remove the protective film from the rubber feet and adhere them to the corresponding recessed areas on the bottom surface of the stand.
2. Use the template mask at the back of this manual to locate the desired position of the stand base on the desk.
3. Use a pen to mark the location of the small holes (shown in red) on the desk surface. Remove the mask before installing the screws.

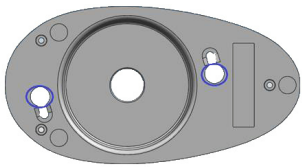


4. Screw the 2 wood screws into the desk, centering in the marked holes. Leave about 4-5 mm of the screw protruding from the upper surface of the desk.

NOTE

On hard surfaces, an electric screwdriver can be used for easier installation of the screws.

5. Set the stand in place on the screws by aligning the large holes (circled in blue) with the screw heads.



6. Rotate the stand counterclockwise until you feel it lock into place.

7. If the rotation is obstructed, or if the stand does not lock into place, remove the stand and adjust the height of the screws. Retry.
8. To remove the stand, rotate clockwise and lift to detach.

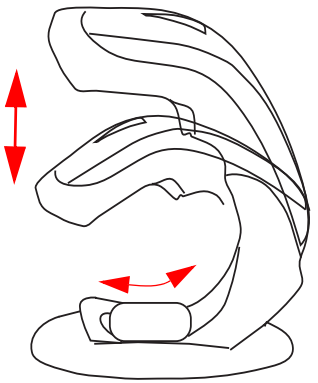
Insertion Into Stand

Place the reader into the stand, taking care to insert the handle into the stand clip as shown.

Correct insertion will be signaled by a beep; then the reader will be ready to read bar codes.

Adjusting the Stand Position

The stand can easily be adjusted to change the inclination of the reader while in the stand.



To adjust the stand:

1. With fingers, loosen the screw on the bottom of the stand by turning it counterclockwise.

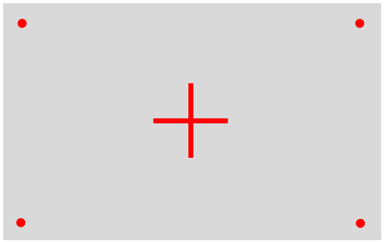
2. Set the stand upright and slide to adjust to the desired position.

3. Re-tighten the screw to secure the stand.

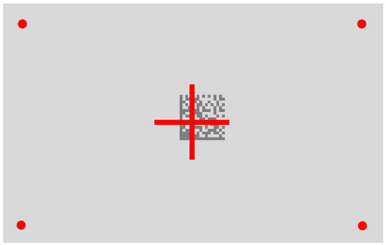
Using the Heron HD3430 Imager

The Heron™ HD34XX normally functions by capturing and decoding codes. The aiming system is activated on trigger pull and indicates the center of the field of view which should be positioned over the bar code:

Aiming System



Relative Size and Location of Aiming System Pattern



2D Matrix symbol

Linear bar code

A beam illuminates the label. The projected pattern of the aiming system will be smaller when the reader is closer to the bar code and larger when it is farther from the code. Symbologies with smaller bars or elements (mil size) should be read closer to the unit. Symbologies with larger bars or elements (mil size) should be read farther from the unit. If the aiming system is centered you will get a good read. Successful reading is signaled by an audible tone plus a good-read green spot LED indicator.

Relative Size and Location of Green Spot

Reference the Heron HD34XX Product Reference Guide (PRG) on the Datalogic website for more information about this feature and other programmable settings.

Selecting the Interface Type

Upon completing the physical connection between the reader and its host, proceed directly to Interface Selection below for information and programming for the interface type the reader is connected to (RS-232, Keyboard Wedge, USB) and scan the appropriate bar code to select your system's correct interface type, according to your application.

For interfaces other than those listed in this manual, see the Heron HD3430 Product Reference Guide (PRG), available online at www.datalogic.com.

Interface Selection

The reader model will support all the following host interfaces:

- RS-232
- RS-232 OPOS
- USB (Keyboard, COM, OEM)
- USB Composite (Keyboard + COM)
- Keyboard Wedge.

Information and programming options for each interface type are provided in this section. For defaults and additional information associated with each interface, proceed to the corresponding chapter in the Heron™ HD3430 PRG.

Configuring the Interface

Scan the appropriate programming bar code to select the interface type for your system.

NOTE

Unlike some other programming features and options, interface selections require that you scan only one programming bar code label. DO NOT scan an ENTER/EXIT bar code prior to scanning an interface selection bar code.

Some interfaces require the scanner to start in the disabled state when powered up. If additional scanner configuration is desired while in this state, pull the trigger and hold for 5 seconds. The scanner will change to a state that allows programming with bar codes.

RS-232

RS-232 standard interface

Select RS232-STD

RS-232 Wincor-Nixdorf

Select RS232-WN

RS-232 for use with OPOS/UPOS/JavaPOS

Select RS-232 OPOS

RS-232 (continued)

USB Com to simulate RS-232 standard interface

Select USB-COM-STD[a]

USB-OEM

USB-OEM (can be used for OPOS/UPOS/JavaPOS)

Select USB-OEM

a. Download the correct USB Com driver from www.datalogic.com

USB-COMPOSITE

USB-Composite

Select USB-Composite

Keyboard Interface

Use the programming bar codes to select options for USB Keyboard and Wedge Interfaces.

KEYBOARD

AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/ Standard Key Encoding

Select KBD-AT

Keyboard Wedge for IBM AT PS2 with standard key encoding but without external keyboard

Select KBD-AT-NK

AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Alternate Key

Select KBD-AT-ALT

Keyboard Wedge for IBM AT PS2 with alternate key encoding but without external keyboard

Select KBD-AT-ALT-NK

KEYBOARD (continued)

USB Keyboard with standard key encoding

Select USB Keyboard

USB Keyboard with alternate key encoding

Select USB Alternate Keyboard

Scancode Tables

Reference the Heron HD34XX PRG for information about control character emulation for keyboard interfaces.

Country Mode

This feature specifies the country/language supported by the keyboard. Only these interfaces support ALL Country Modes:

- USB Keyboard with alternate key encoding
- USB Keyboard with standard key encoding
- AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 w/Std Key Encoding
- Keyboard Wedge for IBM AT PS2 with standard key encoding but without external keyboard
- AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95 without Alternate Key
- Keyboard Wedge for IBM AT PS2 without alternate key encoding but without external keyboard

All other interfaces support ONLY the following Country Modes: U.S., Belgium, Britain, France, Germany, Italy, Spain, Sweden.

COUNTRY MODE

ENTER/EXIT PROGRAMMING MODE

Country Mode = U.S.

Country Mode = Belgium

Country Mode = Croatia*

Country Mode = Czech Republic*

Country Mode = Denmark*

*Supports only the interfaces listed in the Country Mode feature description

COUNTRY MODE (continued)

Country Mode = France

Country Mode = French Canadian*

Country Mode = Germany

Country Mode = Hungary*

Country Mode = Italy

Country Mode = Japanese 106-key*

*Supports only the interfaces listed in the Country Mode feature description

COUNTRY MODE (continued)

Country Mode = Lithuanian*

Country Mode = Norway*

Country Mode = Poland*

Country Mode = Portugal*

Country Mode = Romania*

Country Mode = Spain

*Supports only the interfaces listed in the Country Mode feature description

COUNTRY MODE (continued)

Country Mode = Sweden

Country Mode = Slovakia*

Country Mode = Switzerland*

*Supports only the interfaces listed in the Country Mode feature description

Programming

The reader is factory-configured with a set of standard default features. After scanning the interface bar code from the Interfaces section, select other options and customize your reader through use of the programming bar codes available in the Heron HD34XX PRG. Check the corresponding features section for your interface, and also the Data Editing and Symbologies chapters of the PRG.

Using Programming Bar Codes

This manual contains bar codes which allow you to reconfigure your reader. Some programming bar code labels, like the "Reset Default Settings" on page 16, require only the scan of that single label to enact the change.

Other bar codes require the reader to be placed in Programming Mode prior to scanning them. Scan an ENTER/EXIT bar code once to enter Programming Mode; scan the desired parameter settings; scan the ENTER/EXIT bar code again to accept your changes, which exits Programming Mode and returns the reader to normal operation.

Configure Other Settings

Additional programming bar codes are available in the PRG to allow for customizing programming features. If your installation requires different programming than the standard factory default settings, refer to the PRG.

Resetting Product Defaults

If you aren't sure what programming options are in your reader, or you've changed some options and want your custom factory settings restored, scan the bar code below to reset the reader to its initial configuration. Reference the PRG for other options, and a listing of standard factory settings.

NOTE

Factory defaults are based on the interface type. Be sure your reader is configured for the correct interface before scanning this label. See "Selecting the Interface Type" on page 7 for more information.

Reset Default Settings

Audio Jingle

Instead of the normal beep, a jingle previously uploaded can be selected as the good read audio indication. To change the settings refer to the Heron™ HD3430 PRG.

AUDIO JINGLE
 Disable Jingle  Enable Jingle
AUDIO VOLUME
 Volume off
 Low Volume
 Medium Volume  High Volume

RGB LED Settings

The following configuration items specify settings for the RGB (Red Green Blue) LEDs, which are used to indicate Good Read and Body Illumination when Scanner is in Idle mode.

GOOD READ LED COLOR

ENTER/EXIT PROGRAMMING MODE

GOOD READ INDICATOR = DISABLE

♦GOOD READ INDICATOR = ENABLE

GOOD READ LED COLOR = RED

♦GOOD READ LED COLOR = GREEN

GOOD READ LED COLOR = BLUE

Scanner Idle LED Color

ENTER/EXIT PROGRAMMING MODE

BODY ILLUMINATION = DISABLE

♦BODY ILLUMINATION = ENABLE

♦COLOR = SOLID BLUE

COLOR = SOLID YELLOW

COLOR = SOLID RED

COLOR = SOLID PURPLE

COLOR = SOLID GREEN*

COLOR = RANDOM COLORS

* In this case a different Color should be chosen for the Good Read LED.

NOTE

To define complex patterns, please use Aladdin to set up.

Numlock

This option specifies the setting of the Numbers Lock (Numlock) key while in keyboard wedge interface. This only applies to alternate key encoding interfaces. It does not apply to USB keyboard.

NUMLOCK
 ENTER/EXIT PROGRAMMING MODE
 Numlock = Numlock key unchanged    Numlock = Numlock key toggled

Caps Lock State

This option specifies the format in which the reader sends character data. This applies to keyboard wedge interfaces. This does not apply when an alternate key encoding keyboard is selected.

CAPS LOCK STATE

ENTER/EXIT PROGRAMMING MODE

Caps Lock State = Caps Lock OFF

Caps Lock State = Caps Lock ON

Caps Lock State = AUTO Caps Lock Enable

Reading Parameters

Move the reader toward the target and center the aiming pattern and illumination system to capture and decode the image. See Using the Heron HD3430 Imager on page 6 for more information.

The aiming system will briefly switch off after the acquisition time, and if no code is decoded will switch on again before the next acquisition. The illuminator will remain on until the symbol is decoded.

As you read code symbols, adjust the distance at which you are holding the reader.

Aiming System

A number of options for customizing control of the Aiming System are available. See the Heron HD34XX PRG for more information and programming bar codes.

Good Read Green Spot Duration

Successful reading can be signaled by a good read green spot. Use the bar codes that follow to specify the duration of the good read pointer beam after a good read.

GOOD READ GREEN SPOT DURATION	
 ENTER/EXIT PROGRAMMING MODE	
 Disabled	 ♦ Short (300 ms)
 Medium (500 ms)	 Long (800 ms)

Operating Modes

Scan Mode

The imager can be set to operate in one of several scanning modes. See the PRG for more information and settings for any of the options:

Trigger Single (Default) — This mode is associated with typical handheld reader operation. When the trigger is pulled, illumination is turned on and the scanner attempts to read a label. Scanning is activated until one of the following occurs:

- the programmable 'maximum scan on time"[1] has elapsed
- a label has been read
- the trigger is released

Trigger Pulse Multiple — Scanning begins when the trigger is pulled and continues after the trigger is released, until the trigger is pulled again or until the programmable 'maximum scan on time"[1] has elapsed. Reading a label does not disable scanning. Double Read Timeout[1] prevents undesired multiple reads while in this mode.

Trigger Hold Multiple — When the trigger is pulled, scanning starts and the product scans until the trigger is released or 'maximum scan on time"[1] has elapsed. Reading a label does not disable scanning. Double Read Timeout[1] prevents undesired multiple reads while in this mode.

Always On — The illuminator is always ON and the reader is always ready for code reading. Double Read Timeout[1] prevents undesired multiple reads.

Flashing — The reader illuminator flashes on and off regardless of the trigger status. Code reading takes place only during the Flash On[2] time. Double Read Timeout[1] prevents undesired multiple reads.

Object Detection — The scanner looks for changes within its field-of-view. The Aiming Pattern is always on to show the optimum reading area. If a predefined amount of movement is detected, the white illumination switches on. Scanning continues until a label is read or "maximum scan on time" is reached.

1. See the Product Reference Guide (PRG) for these and other programmable features
2. Controlled by Flash On Time and Flash Off Time. Use the PRG to program these options.

SCAN MODE

ENTER/EXIT PROGRAMMING MODE

♦ Scan Mode = Trigger Single

Scan Mode = Trigger Pulse Multiple

Scan Mode = Trigger Hold Multiple

Scan Mode = Flashing

Scan Mode = Always On

Scan Mode = Object Detection

Pick Mode

Specifies the ability of the reader to decode labels only when they are close to the center of the aiming pattern, which is the area indicated by the two blue arrows. Pick Mode is a Decoding and Transmission process where bar codes that are not within the configurable distance from the center of the aiming pattern are not acknowledged or transmitted to the host. It is active only while the scanner is in Trigger Single mode. If the scanner switches to a different Read Mode, Pick Mode is automatically disabled.

NOTE

This feature is not compatible with Multiple Labels Reading in a Volume. See the PRG for more information.

PICK MODE
 ENTER/EXIT PROGRAMMING MODE
 ♦ PIck Mode = Disable  Pick Mode = Enable

Multiple Label Reading

The reader offers a number of options for multiple label reading. See the PRG or software configuration tool for descriptions of these features and programming labels.

Technical Features

Heron™ HD3430

Item	Description
Electrical Features	
Power Supply RS-232 interface	5 Vdc ± 5%
Consumption:	Max operating current @ 5V: <500 mA Typical operating (changing colors) current @ 5V < 300 mA
Max. Scan Rate	60 frames/sec
Reading Indicators	Side and Top Illumination, Good Read Spot, Beep or Jingle
Optical Features	
Optical Format	1/3-inch
Active Imager Size	4.51 mm (H) x 2.88 mm (V)
Active Pixels	752 H x 480 V
Illumination System	LED source White emission (wavelength = 400-750 nm) IEC 62471 - EXEMPT RISK GROUP
Aiming System	Laser source Red emission (wavelength = 630-680 nm) Pulsed source: maximum lamp duration 15ms, repetition rate 16.6 ms Maximum emitted power: 1 mW IEC 60825 - CLASS 2 LASER PRODUCT
Tilt Tolerance	Up to ± 360°
Pitch Tolerance	± 65°
Skew Tolerance	± 60°
Field of View	40° H x 26° V
DOF Depth of Field (Typical)	Code 39: 5 mil, 35 mm - 200 mm (1.4" - 7.9") Code 39: 20 mil, FOV ltd - 400 mm (FOV ltd - 15.7") EAN13: 13 mil, 30 mm - 400 mm (1.2" - 15.8") DataMatrix: 15 mil, 20 mm - 250 mm (0.8"" - 9.8")
Max. Resolution	Code 39, 3 mil, at 105 mm (4.1")
PCS (Datalogic Test Chart)	minimum 15%

Item	Description
Environmental Features	
Working Temperature	0 °C to + 50 °C (+32° to +122 °F)
Storage Temperature	-20 °C to + 70 °C (-4° to +158 °F)
Humidity	90% non condensing
Drop Resistance	IEC 68-2-32 Test ED 1.5 m (5 ft)
ESD Protection	16 KV
Protection Class	IP40
Weight (without cable)	approx. 150 g (5.3 oz)
Cable Length	Refer to www.datalogic.com
Decode Capability	
1D Bar Codes UPC/EAN/JAN (A, E, 13, 8); UPC/EAN/JAN (including P2 /P5); UPC/EAN/JAN (including; ISBN / Bookland & ISSN); UPC/EAN Coupons; Code 39 (including full ASCII); Code 39 Trioptic; Code39 CIP (French Pharmaceutical); LOGMARS (Code 39 w/ standard check digit enabled); Danish PPT; Code 32 (Italian Pharmacode 39); Code 128; Code 128 ISBT; Interleaved 2 of 5 ; Standard 2 of 5; Interleaved 2 of 5 CIP (HR); Industrial 2 of 5; Discrete 2 of 5; Matrix 2 of 5; IATA 2of5 Air cargo code; Code 11; Codabar; Codabar (NW7); ABC Codabar; EAN 128; Code 93 ; MSI; PZN; Plessey; Anker Plessey; GS1 DataBar Omnidirectional; GS1 DataBar Limited; GS1 DataBar Expanded; GS1 DataBar Truncated; DATABAR Expanded Coupon.	
2D / Stacked Codes The Heron HD34XX scanner is capable of decoding the following symbologies using multiple frames (i.e. Multi-Frame Decoding): Datamatrix; Inverse Datamatrix; Datamatrix is configurable for the following parameters:; Normal or Inverted; Square or Rectangular Style; Data length (1 - 3600 characters); Maxicode; QR Codes (QR, Micro QR and Multiple QR Codes); Aztec; Postal Codes - (Australian Post; Japanese Post; KIX Post; Planet Code; Postnet; Royal Mail Code (RM45CC); Intelligent Mail Barcode (IMB); Sweden Post; Portugal Post); LaPoste A/R 39; PDF-417; MacroPDF; Micro PDF417; GS1 Composites (1 - 12); French CIP13[a]; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; GS1 DataBar Expanded Stacked; GSI Databar Composites; Chinese Sensible Code; Inverted 2D codes[b] . [a]It is acceptable to handle this with ULE [b]The SW can apply the Normal/Reverse Decoding Control to the following symbologies: Datamatrix, QR, Micro QR, Aztec and Chinese Sensible Code.	

LED and Beeper Indications

The imager's beeper sounds and its illumination flashes or changes color to indicate various functions or errors on the reader. A 'Green Spot" also lights to indicate a good read. The tables below list these indications. Reference the PRG for a more detailed list.

Indication	LED	Beeper
Power-up	Upper LED flashes/blinks on power-up, however, this may be too rapid to view. With a USB interface, the LED blinks until enumeration with the host is completed.	Imager beeps four times at highest frequency and volume upon power-up.
Good Read	Upper green LED comes on for programmed time (default). LED behavior for this indication is configurable using Aladdin utility.	One beep at current frequency, volume, mono/bitonal setting upon a successful label scan. It is also possible to upload custom jingles with Aladdin.
ROM Failure	200ms on / 200ms off	Imager sounds one error beep at highest volume for 200 mS.
Limited Scanning Label Read	N/A	Imager 'chirps' six times at the highest frequency and current volume.
Imager Disabled	The LED blinks continuously 100mS on / 900 mS off	N/A

Troubleshooting

Problem	Possible Cause	Possible Solutions
Nothing happens when the scan button is pulled.	No power to the imager.	Check system power. Ensure power supply is connected.
	Interface or power cables are loose.	Ensure all cable connections are secure.
LED comes on, but bar code does not decode.	Imager not programmed for correct bar code type.	Ensure imager is programmed to read the type of bar code scanned. Refer to the PRG for more information.
	Bar code label is unreadable.	Check the label to ensure it is not defaced. Try scanning another bar code type.
	Distance between imager and bar code is incorrect.	Move imager closer to or further from the bar code.
Bar code is decoded but not transmitted to the host.	Imager not programmed for the correct host type.	Scan the appropriate host type barcode. Refer to the PRG for more information.

NOTE

For detailed troubleshooting, refer to the PRG (Product Reference Guide)

Datalogic ADC Limited Factory Warranty

Warranty Coverage

Datalogic warrants to Customer that Datalogic's products will be free from defects in materials and workmanship for a period of five (5) years from product shipment. Datalogic ADC ('Datalogic") hardware products are warranted against defects in material and workmanship under normal and proper use. The liability of Datalogic under this warranty is limited to furnishing the labor and parts necessary to remedy any defect covered by this warranty and restore the product to its normal operating condition. Repair or replacement of product during the warranty does not extend the original warranty term. Products are sold on the basis of specifications applicable at the time of manufacture and Datalogic has no obligation to modify or update products once sold.

If Datalogic determines that a product has defects in material or workmanship, Datalogic shall, at its sole option repair or replace the product without additional charge for parts and labor, or credit or refund the defective products duly returned to Datalogic. To perform repairs, Datalogic may use new or reconditioned parts, components, subassemblies or products that have been tested as meeting applicable specifications for equivalent new material and products. Customer will allow Datalogic to scrap all parts removed from the repaired product. The warranty period shall extend from the date of shipment from Datalogic for the duration published by Datalogic for the product at the time of purchase (Warranty period). Datalogic warrants repaired hardware devices against defects in workmanship and materials on the repaired assembly for a 90 day period starting from the date of shipment of the repaired product from Datalogic or until the expiration of the original warranty period, whichever is longer. Datalogic does not guarantee, and it is not responsible for, the maintenance of, damage to, or loss of configurations, data, and applications on the repaired units and at its sole discretion can return the units in the 'factory default" configuration or with any software or firmware update available at the time of the repair (other than the firmware or software installed during the manufacture of the product). Customer accepts responsibility to maintain a back up copy of its software and data.

Warranty Claims Process

In order to obtain service under the Factory Warranty, Customer must notify Datalogic of the claimed defect before the expiration of the applicable Warranty period and obtain from Datalogic a return authorization number (RMA) for return of the product to a designated Datalogic service center. If Datalogic determines Customer's claim is valid, Datalogic will repair or replace product without additional charge for parts and labor. Customer shall be responsible for packaging and shipping the product to the designated Datalogic service center, with shipping charges prepaid. Datalogic shall pay for the return of the product to Customer if the shipment is to a location within the country in which the Datalogic service center is located. Customer shall be responsible for paying all shipping charges, duties, taxes, and any other charges for products returned to any other locations. Failure to follow the applicable RMA policy, may result in a processing fee. Customer shall be responsible for return shipment expenses for products which Datalogic, at its sole discretion, determines are not defective or eligible for warranty repair.

Warranty Exclusions

The Datalogic Factory Warranty shall not apply to:

(i) any product which has been damaged, modified, altered, repaired or upgraded by other than Datalogic service personnel or its authorized representatives;

(ii) any claimed defect, failure or damage which Datalogic determines was caused by faulty operations, improper use, abuse, misuse, wear and tear, negligence, improper storage or use of parts or accessories not approved or supplied by Datalogic;

(iii) any claimed defect or damage caused by the use of product with any other instrument, equipment or apparatus;

(iv) any claimed defect or damage caused by the failure to provide proper maintenance, including but not limited to cleaning the upper window in accordance with product manual;

(v) any defect or damage caused by natural or man-made disaster such as but not limited to fire, water damage, floods, other natural disasters, vandalism or abusive events that would cause internal and external component damage or destruction of the whole unit, consumable items;

(vi) any damage or malfunctioning caused by non-restoring action as for example firmware or software upgrades, software or hardware reconfigurations etc.;

(vii) the replacement of upper window/cartridge due to scratching, stains or other degradation and/or

(viii) any consumable or equivalent (e.g., cables, power supply, batteries, keypads, touch screen, triggers etc.).

No Assignment

Customer may not assign or otherwise transfer its rights or obligations under this warranty except to a purchaser or transferee of product. No attempted assignment or transfer in violation of this provision shall be valid or binding upon Datalogic.

DATALOGIC'S LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ORAL OR WRITTEN, STATUTORY OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR NONINFRINGEMENT. DATALOGIC SHALL NOT BE LIABLE FOR ANY DAMAGES SUSTAINED BY CUSTOMER ARISING FROM DELAYS IN THE REPLACEMENT OR REPAIR OF PRODUCTS UNDER THE ABOVE. THE REMEDY SET FORTH IN THIS WARRANTY STATEMENT IS THE CUSTOMER'S SOLE AND EXCLUSIVE REMEDY FOR WARRANTY CLAIMS. UNDER NO CIRCUMSTANCES WILL DATALOGIC BE LIABLE TO CUSTOMER OR ANY THIRD PARTY FOR ANY LOST PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL IN-DIRECT, SPECIAL OR CONTINGENT DAMAGES REGARDLESS OF WHETHER DATALOGIC HAD ADVANCE NOTICE OF THE POSSIBILITY OF SUCH DAMAGES.

Risk of Loss

Customer shall bear risk of loss or damage for product in transit to Datalogic. Datalogic shall assume risk of loss or damage for product in Datalogic's possession. In the absence of specific written instructions for the return of product to Customer, Datalogic will select the carrier, but Datalogic shall not thereby assume any liability in connection with the return shipment.

Ergonomic Recommendations

In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

Services and Support

Datalogic provides several services as well as technical support through its website. Log on to **www.datalogic.com** and click on the links indicated for further information.

Products - Search through the links to arrive at your product page where you can download specific **Manuals** and **Software & Utilities**, including:

- **Datalogic Aladdin™**, a multi-platform utility program that allows device configuration using a PC. It provides RS-232 interface configuration as well as configuration bar code printing.

Service & Support

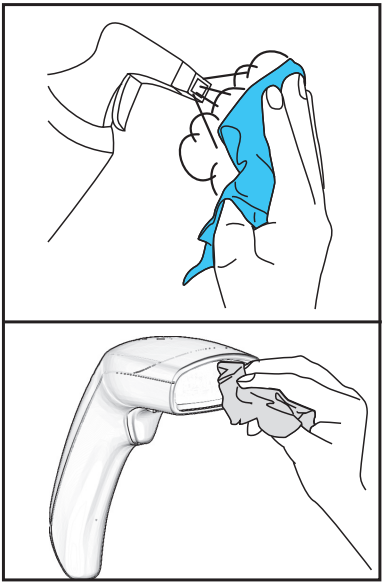
- **Technical Support** - Product documentation and programming guides and Technical Support Department in the world
- **Service Programs** - Warranty Extensions and Maintenance Agreements
- **Repair Services** - Flat Rate Repairs and Return Material Authorization (RMA) Repairs
- **Downloads** – Manuals & Documentation, Data Sheets, Product Catalogs, etc.

Contact Us

- Information Request Form and Sales & Service Network.

Cleaning

Exterior surfaces and scan windows exposed to spills, smudges or debris require periodic cleaning to ensure best performance during scanning.



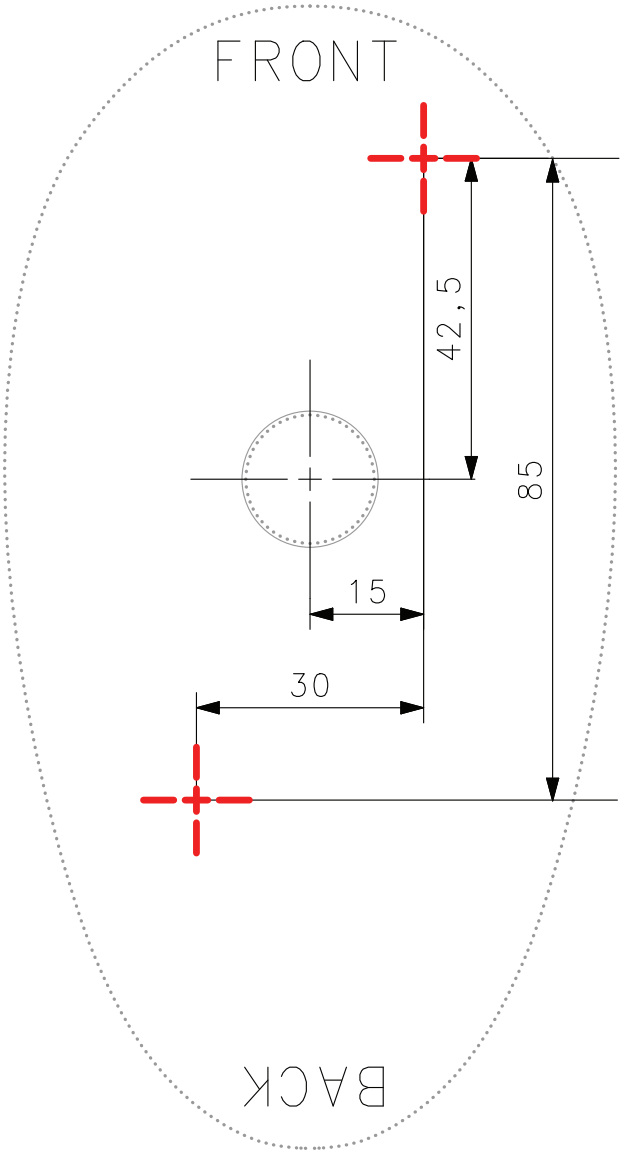
Use a soft, dry cloth to clean the product. If the product is very soiled, clean it with a soft cloth moistened with a diluted non-aggressive cleaning solution or diluted ethyl alcohol.

CAUTION

Do not use abrasive or aggressive cleansing agents or abrasive pads to clean scan windows or plastics.

Do not spray or pour liquids directly onto the unit.

Stand Dimensions



Stand Base Plate Template

NOTES

NOTES

DATALOGIC

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