

 **DATALOGIC**

# Heron™ HD3130 Linear Imager



**Quick Reference Guide**

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See [www.patents.datalogic.com](http://www.patents.datalogic.com) for patent list.

**See the Regulatory Addendum included with your product for additional regulatory, safety and legal information.**



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event an action is brought to enforce the terms and conditions of this Agreement, the prevailing party shall be entitled to reasonable attorneys' fees, both at trial and on appeal.

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- END -

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The only exception to this policy is when the buyer has a signed contract with Datalogic that clearly defines the terms and conditions for making software/firmware changes in products shipped to the buyer.

To arrange for a Software Maintenance and Support Agreement please contact your Datalogic sales person.





# Heron™ HD3130

## Using the Heron™ Series Readers

The Heron™ HD3130 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.

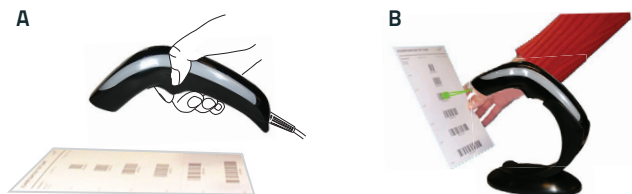
Heron™ readers automatically scan barcodes **at a distance**. Simply aim and pull the trigger. Code scanning is performed along the center of the light bar emitted from the reading window. This bar must cover the entire code.

Effective scanning is obtained by tilting the scanner with respect to the barcode 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

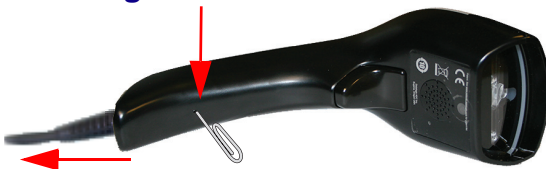
Follow the steps below to connect and get your reader up and communicating with its host.

1. Connect the Cable to the reader and the Host as shown below.
2. Configure the Interface (see page 6).
3. Program the Reader starting on page 14 (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.



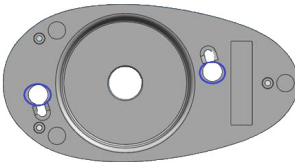
4. Screw the 2 wood screws into the desk, centering in the marked holes. Leave about 4-5 mm of the screw protruding from the upper surface of the desk.



### 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

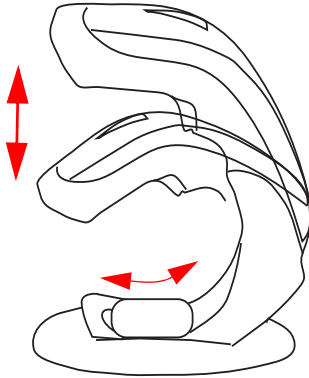
Place the reader into the stand, taking care to insert the handle into the stand clip as shown.



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.

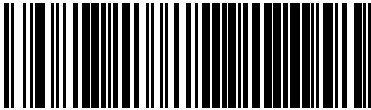
## Selecting the Interface Type

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.

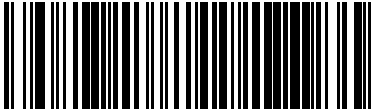
For interfaces other than those listed in this manual, see the Heron™ HD3130 Product Reference Guide (PRG), available online at [www.datalogic.com](http://www.datalogic.com).

### USB Interface

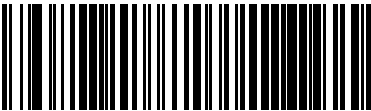
The reader attaches directly to a USB host, or a powered USB hub, and is powered by it. No additional power supply is required. When using a USB interface, the reader auto-detects the USB connection and defaults to the USB Keyboard interface.



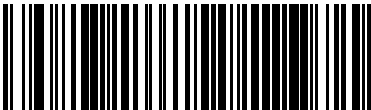
Select USB-COM-STD<sup>1</sup> (simulates RS-232 standard interface)



Select USB Keyboard (with standard key encoding)



Select USB Alternate Keyboard (with alternate key encoding)



Select USB OEM

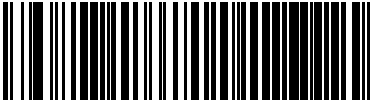
1. Download the correct USB Com driver from [www.datalogic.com](http://www.datalogic.com).

## RS-232 Interface

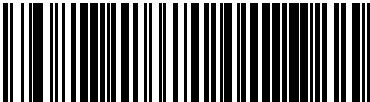
To use an RS-232 interface, scan the bar code for the desired RS-232 host type.



Select RS-232 Standard



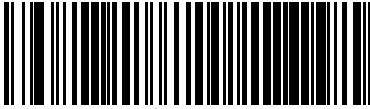
Select RS-232 Wincor Nixdorf



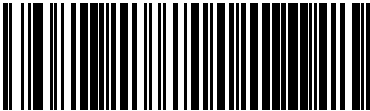
Select RS-232 OPOS (for use with OPOS/UPOS/JavaPOS)

## Keyboard Wedge Interface

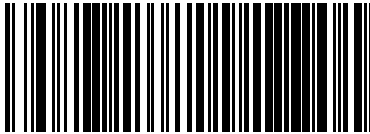
To use a Keyboard Wedge interface, scan the bar code for the desired keyboard type.



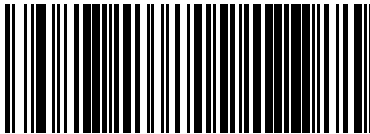
Select KBD-AT  
(AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95  
w/Standard Key Encoding)



Select KBD-AT-NK  
(IBM AT PS2 with standard key encoding  
but without external keyboard)



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



Select KBD-AT-ALT-NK (for IBM AT PS2 with alternate key  
encoding but without external keyboard)



## Audio Jingle

Instead of the normal beep, a jingle previously uploaded can be selected as the good read audio indication.



Disable Jingle



Enable Jingle

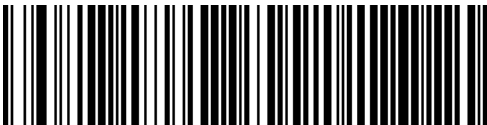
## Audio Volume



Volume off



Low Volume



Medium Volume

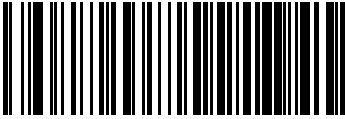
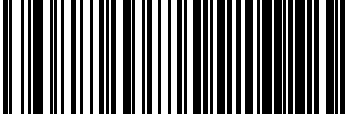


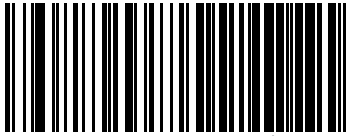
High Volume

## Keyboard Nationality

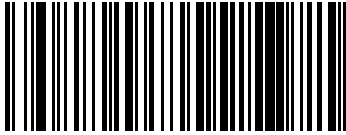
### Country Mode

This feature specifies the country/language supported by the keyboard. .

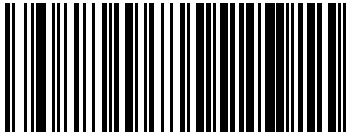
| COUNTRY MODE   |
|--|
| <br>ENTER/EXIT PROGRAMMING MODE     |
| <br>Country Mode = U.S.             |
| <br>Country Mode = Belgium         |
| <br>Country Mode = Britain        |
| <br>Country Mode = Croatia        |
| <br>Country Mode = Czech Republic |

**COUNTRY MODE (continued)**

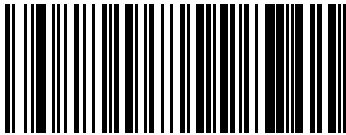
Country Mode = Denmark



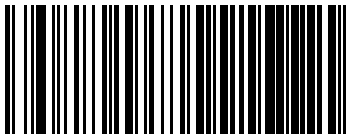
Country Mode = France



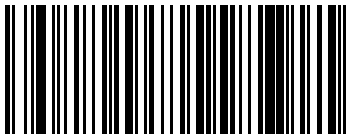
Country Mode = Germany



Country Mode = Hungary

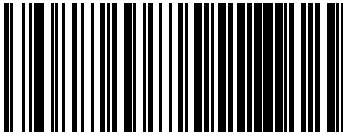


Country Mode = Italy

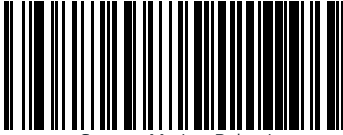


Country Mode = Japanese 106-key

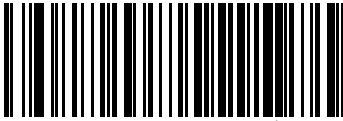
**COUNTRY MODE (continued)**



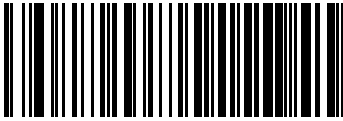
Country Mode = Norway



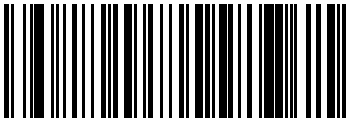
Country Mode = Poland



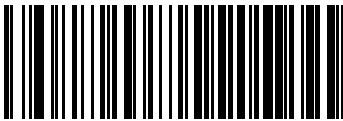
Country Mode = Portugal



Country Mode = Romania

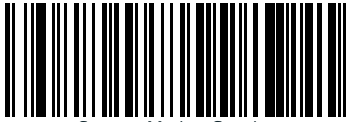


Country Mode = Slovakia

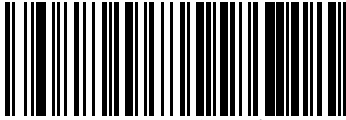


Country Mode = Spain

**COUNTRY MODE (continued)**



Country Mode = Sweden



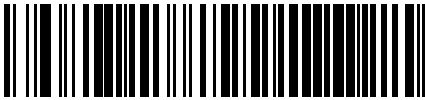
Country Mode = Switzerland

## Programming

The reader is factory-configured with a set of standard default features. After scanning the interface barcode from the Interfaces section, select other options and customize your reader through use of the programming bar codes available in the Heron™ HD3130 Product Reference Guide (PRG). Check the corresponding features section for your interface, and also the Data Editing and Symbologies chapters of 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 the factory settings restored, scan the Factory Default Settings bar code below. This will copy the factory configuration for the currently active interface to the current configuration. To change the settings refer to the Heron™ HD3130 PRG.



Factory Default Settings

## 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. (Only for version 610023419 and later).

| 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 (Only for SW version 610023419 and later)



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



COLOR = TURQUOISE



COLOR = ORANGE



COLOR = FUCHSIA



COLOR = CYAN

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

# Technical Features

## Heron™ HD3130

| Item                               | Description   |
|------------------------------------|---|
| <b>Electrical Features</b>         |   |
| Power Supply<br>RS-232 interface   | 5 Vdc ± 5%  |
| Consumption:                       | Max operating current @ 5V: <500 mA<br>Typical operating (changing colors) current @ 5V < 300 mA  |
| Max. Scan Rate                     | 270 scans/sec   |
| Reading Indicators                 | Side and Top Illumination, Good Read Spot, Beep or Jingle   |
| <b>Optical Features</b>            |   |
| Sensor                             | CCD solid state (2500 pixels)   |
| Illuminator                        | LED array   |
| Wavelength                         | 617 nm  |
| LED Safety Class                   | Exempt IEC 62471  |
| DOF<br>Depth of Field<br>(Typical) | 5 mils : 5 to 15.0 cm / 2.0 to 6.0 in<br>(CODE 39, PCS 90%)<br>10 mils: 2 to 35.0 cm / 0,8 to 13.8 in<br>(CODE 39, PCS 90%)<br>13 mils: 2 to 40.0 cm / 0,8 to 15.7 in<br>(EAN13, PCS 90%)<br>20 mils: 2 to 60.0 cm / 0,8 to 23.6 in<br>(CODE 39, PCS 90%) |
| Max. Resolution                    | 0.10 mm (4 mils)  |
| PCS (Datalogic Test Chart)         | minimum 15%   |
| <b>Environmental Features</b>      |   |
| 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<br>1.5 m (5 ft)   |
| ESD Protection                     | 16 KV   |
| Protection Class                   | IP40  |

| Item                       | Description   |
|----------------------------|---|
| <b>Mechanical Features</b> |   |
| Weight (without cable)     | approx. 150 g (5.3 oz)  |
| Cable Length               | Refer to <a href="http://www.datalogic.com">www.datalogic.com</a>   |
| Decode Capability          | UPC/EAN, P2 /P5 add-ons; ISBN; ISSN; GTIN, add on 2/5; Codabar; ABC Codabar; Interleaved 2/5; Code 93; Code 128; Code 39; Code 32 (Italian Pharmacode); Code 11; Plessey; Industrial 2/5; IATA Industrial 2/5; EAN 128; Code 4; Code 5; China Post (Datalogic 2 of 5); Standard 2 of 5; MSI; Concatenated ISBT 128<br>STACKED CODES: GS1 DataBar Expanded; GS1 DataBar Limited; GS1 DataBar Omnidirectional |

## 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/bi-tonal 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.                           |



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

## Datalogic 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 ("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



### CAUTION

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.

## Support Through the Website

Datalogic provides several services as well as technical support through its website.

Log on to [www.datalogic.com](http://www.datalogic.com) and click on the **SUPPORT > General Duty Handheld Scanners** category link. From this page you can select your product model from the dropdown list which gives you access to:

**Downloads** including Data Sheets, Manuals, Software & Utilities, and Drawings;

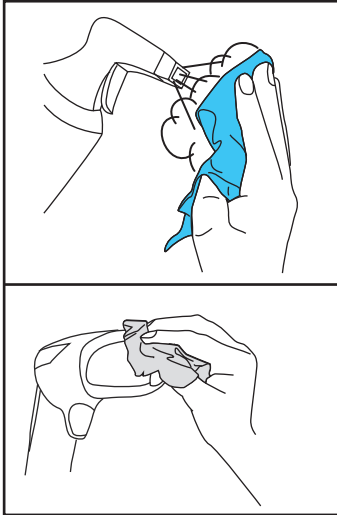
**Repair Program** for On-Line Return Material Authorizations (RMAs) plus Repair Center contact information;

**Service Program** containing details about Maintenance Agreements;

**Technical Support** through email or phone.

## Cleaning

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



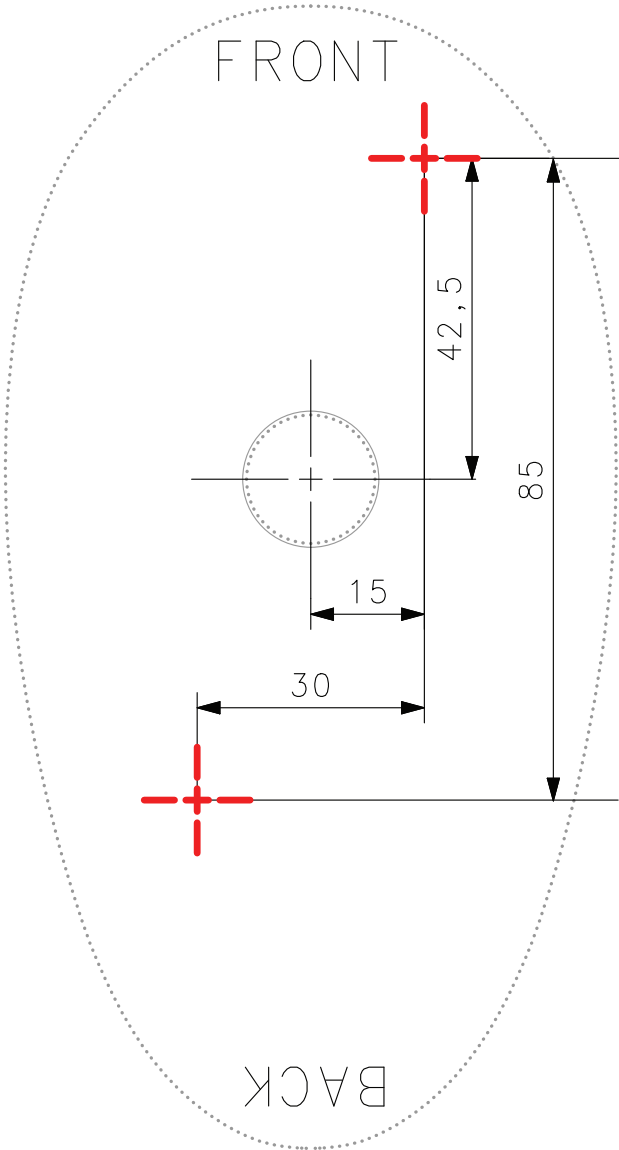
Use a soft, dry cloth to clean the product. If the product is very soiled, clean it with a soft cloth moistened with a diluted non-aggressive cleaning solution or diluted ethyl alcohol.



**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







[www.datalogic.com](http://www.datalogic.com)

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