



**WLS9600**

1D Laser Scanner USB



**Quick Reference Guide**

## **Wasp Barcode Technologies**

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### **Patents**

This product may be covered by one or more of the following patents:

Design Patents: CN ZL200830142386.5; CN ZL200930006852.1;  
EP870787; USD599799; USD606076

Utility Patents: EP0789315B1; EP1128314B1; EP1128315B1; EP1396811B1;  
EP1413971B1; EP1942442B1; US5481098; US5493108; US5992740;  
US6454168; US6494376; US6517003; US6561427; US6808114;  
US6997385; US7387246

Additional Patents pending.

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# NOTES

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# Software Product Policy

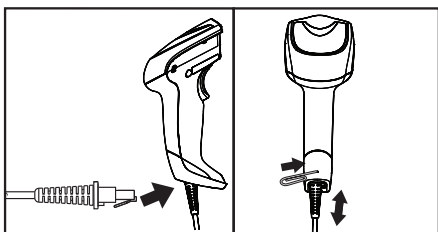
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The only exception to this policy is when the buyer has a signed contract with Wasp that clearly defines the terms and conditions for making software/firmware changes in products shipped to the buyer.



1

## Connect/Disconnect Cable

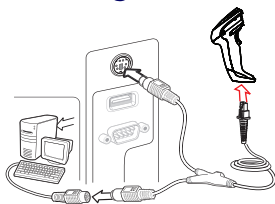


2

## Connect Host Interface

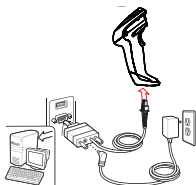


### Keyboard Wedge Interface

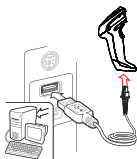




## RS-232 Interface

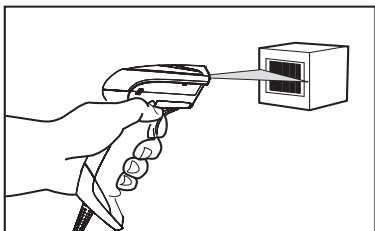


## USB Interface

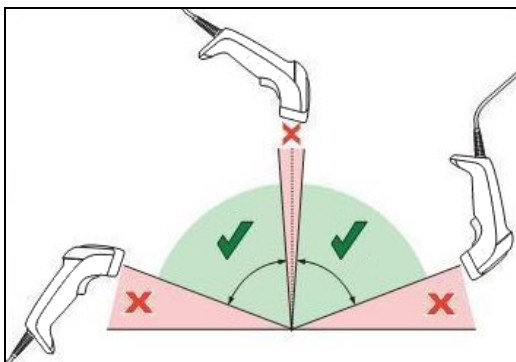


3

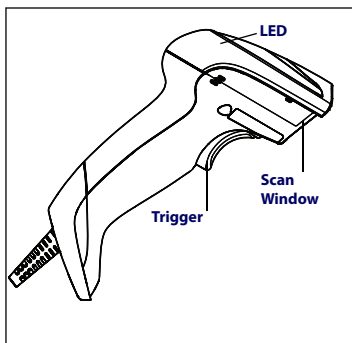
## Aim and Scan



The area shown in green below illustrates the area of typical maximum performance for the scanner.



## Parts of the Reader



## Scanning Modes

The reader can operate in one of several scanning modes:

**Trigger Single** — When the trigger is pulled, scanning is activated until one of the following occurs:

- a programmable duration<sup>1</sup> has elapsed
- a label has been read
- the trigger is released

This mode is associated with typical handheld reader operation: when the trigger is pulled, scanning starts and the product scans until the trigger is released, or a label is read, or the maximum programmable duration<sup>1</sup> has elapsed.

**Trigger Hold Multiple** — When the trigger is pulled, scanning starts and the product scans until the trigger is released or a programmable duration<sup>1</sup> has elapsed. Reading a label does not disable scanning. Double Read Timeout<sup>2</sup> prevents undesired multiple reads while in this mode.

**Trigger Pulse Multiple** — When the trigger is pulled and released, scanning is activated until programmable duration<sup>1</sup> has elapsed or the trigger has been pulled again to transition to another state. Double Read Timeout<sup>2</sup> prevents undesired multiple reads while in this mode.

**Flashing** — The reader flashes<sup>3</sup> on and off regardless of the trigger status.

**Always On** — No trigger pull is required to read a barcode. Scanning is continually on<sup>4</sup>.

**Stand Mode** — No trigger pull is required to read a barcode. Scanning is alternatively turned on and off.

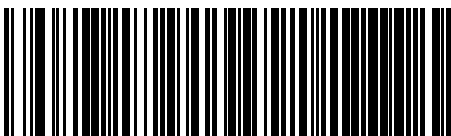
- 
1. See the Product Reference Guide (PRG) for additional programmable features, in this case: Scanning Active Time.
  2. Double Read Timeout is also programmed using the PRG.
  3. Controlled by Flash On Time and Flash Off Time. Use the PRG to program these options.
  4. For energy saving purposes, the Always On feature has a user programmable timeout (default 5 hours of inactivity). A single manual trigger pull is required to reactivate the scanner after the timeout.
-



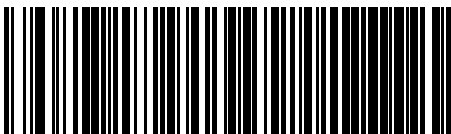
Scan Mode = Trigger Single



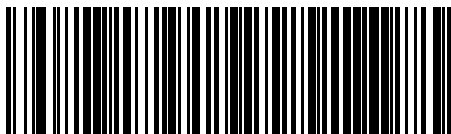
Scan Mode = Trigger Hold Multiple



Scan Mode = Trigger Pulse Multiple



Scan Mode = Flashing



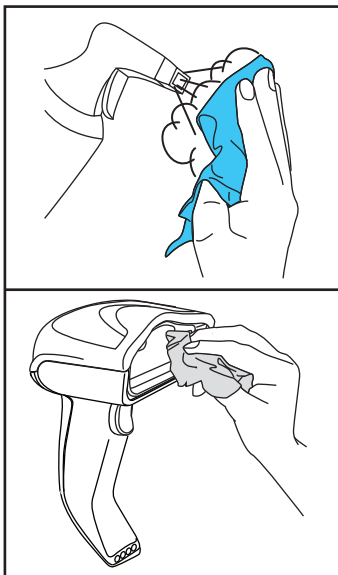
Scan Mode = Always On



Scan Mode = Stand Mode

## 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.**

# Technical Features

Item	Description
<b>Physical Characteristics</b>	
<b>Color</b>	Black/Yellow
<b>Dimensions</b>	Height 7.1" / 181mm Length 3.9" / 100mm Width 2.8" / 71mm
<b>Weight (without cable)</b>	Approximately 6.0 ounces/169 g
<b>Electrical Characteristics</b>	
<b>Voltage &amp; Current</b>	Input current at $5V \pm 5\% = 260 \text{ mA}$ (max) 2.5 mA (USB suspend) Standby (typical) $\leq 30 \text{ mA}$
<b>Performance Characteristics</b>	
<b>Light Source</b>	650nm Class 2 Laser
<b>Pitch (Yaw)</b>	$\pm 50^\circ$
<b>Skew</b>	$\pm 65^\circ$
<b>Roll (Tilt)</b>	$\pm 35^\circ$
<b>Scan Angle</b>	$47^\circ$ (normal) or $35^\circ$ (narrow)
<b>Depth of Field (Typical)</b>	5 mil - 1.4" to 6.22" (3,6cm to 15,8cm) 13 mil* - 0.87" to 18.7" (2,2cm to 47,5cm) 20 mil - up to 27.1" (to 69cm)
<b>Minimum Element Width</b>	4 mil
<b>Print Contrast Minimum (Typical)</b>	15% minimum reflectance
<b>Decode Capability</b>	UPC/EAN/JAN, P2 /P5 add-ons; Code 39; Code 32; Code 128; Code 128 ISBT; Code 128 add-ons; Interleaved 2 of 5; Standard 2 of 5; Code 11; Codabar; EAN 128; GS1 DataBar™ Omnidirectional, GS1 DataBar™ Limited, GS1 DataBar™ Expanded, Code 4, Code 5, Follett 2 of 5.
<b>Interfaces Supported</b>	RS-232 Std., RS-232 Wincor-Nixdorf, RS-232 OPOS, USB Com Std., USB Keyboard, USB Alternate Keyboard, USB OEM, Keyboard Wedge (AT with or w/o Alternate Key, IBM AT PS2 with or w/o Alternate Key, PC-XT, IBM 3153, IBM Terminals 31xx, 32xx, 34xx, 37xx make only and make break keyboard, Digital Terminals VT2x, VT3xx, VT4xx, and Apple) and Wand Emulation.

## Technical Features

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User Environment	
Operative Temperature	32° to 122° F (0° to 50° C)
Storage Temperature	-4° to 158° F (-20° to 70° C)
Humidity	Operating: 5% to 90% relative humidity, non condensing
Drop specifications	18 drops from 1.8 meters (5.9 feet) to concrete
Ambient Light immunity	Up to 100,000 Lux
Contaminants	IP52
ESD Level	16 KV
Regulatory	
Electrical Safety	IEC 60950-1 , CAN/CSA-C22.2 No. 60950-1; UL 60950-1
Laser Safety	EN/IEC 60825-1 Class 2 21 CFR 1040 (CDRH) (Class2)
Led class Safety	IEC Class 1
EMI/RFI	North America (FCC) : Part 15 Class B, Canada ( IC) : ICES-003 Class B, European Union EMC Directive, Australian (C-tick)

\* (13 mils DOF based on EAN. All others are Code 39. All labels grade A, typical environmental light, 20°C, label inclination 10°)



# Troubleshooting

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



**For detailed troubleshooting, refer to the Product Reference Guide.**

# LED and Beeper Indications

The reader’s beeper sounds and its LED illuminates 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. One exception to the behaviors listed in the tables is that the reader’s functions are programmable, and may or may not be turned on. For example, certain indications, such as the power-up beep can be disabled using programming barcode labels. Reference the PRG for a more detailed list.

Indication	LED	Beeper
Power-up	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.	Reader beeps four times at highest frequency and volume upon power-up.
Good Read	LED behavior for this indication is configurable using the PRG.	One beep at current frequency, volume, mono/bi-tonal setting upon a successful label scan.
ROM Failure	200ms on / 200ms off	Reader sounds one error beep at highest volume for 200 mS.
Limited Scanning Label Read	N/A	Reader 'chirps' six times at the highest frequency and current volume.
Reader Disabled	The LED blinks continuously 100ms on / 900 ms off	N/A

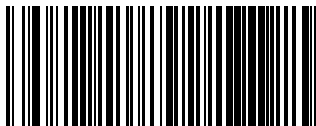
## Programming Barcodes

For your convenience, this guide includes the programming barcodes required to configure the reader for use with different interface (terminal/host) types.

See the Product Reference Guide (PRG) for more complete information about programming and configurable features. You can download the latest version of the PRG and any other available publications for the reader from the website listed on the back cover of this manual.

## Resetting the Standard 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 barcode below. This will copy the factory configuration for the currently active interface to the current configuration.



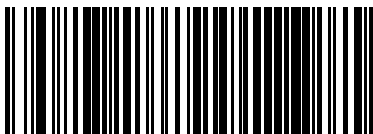
Factory Default Settings



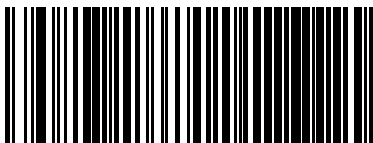
**Some interfaces require the scanner to start in the disabled state when powered up. If additional scanner configuration is desired while in this state, pull the trigger and hold it for five seconds. The scanner will change to a state that allows programming with barcodes.**

## RS-232 Interface

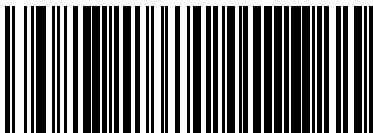
To use an RS-232 interface, scan the barcode for the desired RS-232 host type.



Select RS-232 Standard



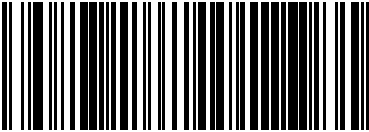
Select RS-232 Wincor Nixdorf



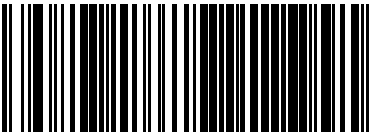
Select RS-232 OPOS (for use with OPOS/UPOS/JavaPOS)

## USB Interface

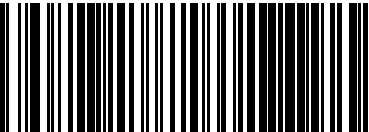
The reader attaches directly to a USB host, or a powered USB hub, and is powered by it. No additional power supply is required. When using a USB interface, the reader auto-detects the USB cable and defaults to the USB keyboard interface.



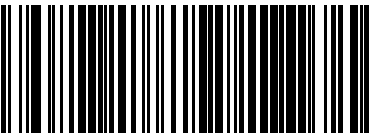
Select USB Keyboard (with standard key encoding)



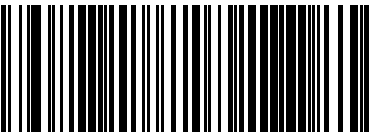
Select USB-COM-STD<sup>1</sup> (simulates RS-232 standard interface)



Select USB Alternate Keyboard (with alternate key encoding)



Select USB OEM



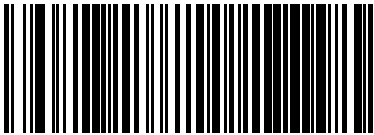
Select USB-KBD-APPLE (for Apple computers)

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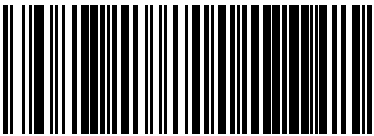
1. Download the correct USB Com driver from [www.waspbarcode.com](http://www.waspbarcode.com)

# Keyboard Wedge Interface

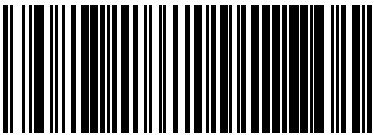
To use a Keyboard Wedge interface, scan the barcode for the desired keyboard type.



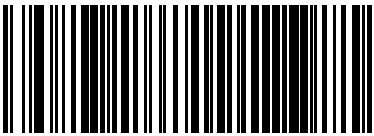
Select KBD-AT  
(AT, PS/2 25-286, 30-286, 50, 50Z, 60, 70, 80, 90 & 95  
w/Standard Key Encoding)



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)

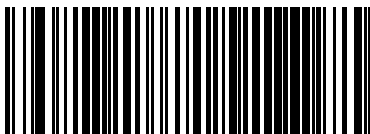


Select KBD-AT-ALT-NK (for IBM AT PS2 with alternate key  
encoding but without external keyboard)

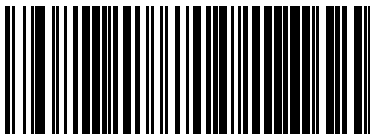
## Keyboard Wedge Interface (continued)



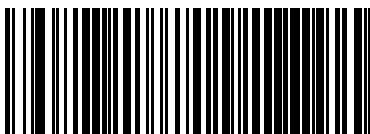
Select KBD-XT (PC/XT w/Standard Key Encoding)



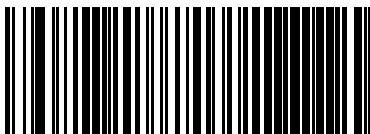
Select KBD-IBM-3153 (for IBM Terminal 3153)



Select KBD-IBM-M  
(for IBM Terminals 31xx, 32xx, 34xx, 37xx make only keyboard)



Select KBD-IBM-MB  
(for IBM Terminals 31xx, 32xx, 34xx, 37xx make break keyboard)



Select KBD-DIG-VT  
(for DIGITAL Terminals VT2xx, VT3xx, VT4xx)

## Ergonomic Recommendations



**CAUTION**

**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.

## Regulatory Information

All models are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Any changes or modifications to equipment not expressly approved by Wasp Barcode Technologies could void the user's authority to operate the equipment.

## Power Supply

This device is intended to be connected to a UL Listed/CSA Certified computer which supplies power directly to the reader or else be supplied by UL Listed/CSA Certified Power Unit marked "Class 2" or LPS power source rated 5.2V minimum 600mA for WLS9600, which supplies power directly to the reader via the power connector of the cable.

Use only authorized power supplies supplied by your Wasp reseller. The use of any other power supplies can damage the reader and void your warranty.



**For USB Power Off Terminal applications, attach to USB 1.0, 1.1 or 2.0 host device only.**



## Laser Safety Compliance

The laser scanner conforms to the applicable requirements of both CDRH 21 CFR 1040 and EN60825-1 at the date of manufacture. The laser light is visible to the human eye and is emitted from the output window.



### CAUTION

**Use of controls or adjustments or performance of procedures other than those specified herein may result in exposure to hazardous visible laser light.**

**The laser scanner utilizes a low-power laser diode. Although staring directly at the laser beam momentarily causes no known biological damage, avoid staring at the beam as one would any very strong light source, such as the sun. Avoid allowing the laser beam to hit the eye of an observer, even through reflective surfaces such as mirrors, etc.**

ITALIANO	LUCE LASER NON FISSARE IL RAGGIO APPARECCHIO LASER DI CLASSE 2
FRANÇAIS	RAYON LASER EVITER DE REGARDER LE RAYON APPAREIL LASER DE CLASSE 2
DEUTCH	LASERSTRAHLUNG NICHT IN DEN STRAHL BLICKEN PRODUKT DER LASERKLASSE 2
ESPAÑOL	RAYO LÁSER NO MIRAR FIJO EL RAYO APARATO LÁSERDE CLASE 2

## Radio Frequency Interference Requirements



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If the equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



**The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

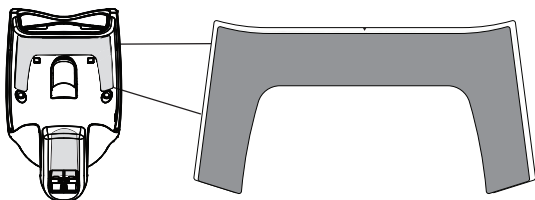
## Radio Frequency Interference Requirements - Canada

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

## Reader Labeling

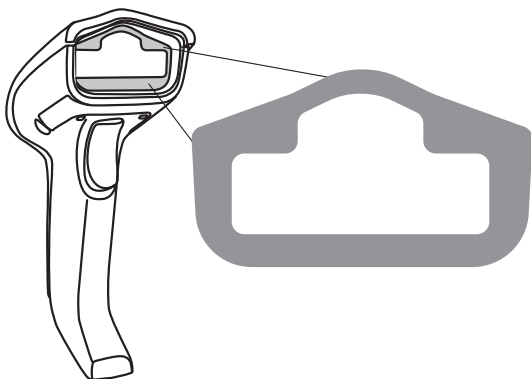
Sample labels are shown here to illustrate their location only. Please view the labels on your product for actual details, as they may vary from those depicted.

### Scanner Regulatory Label



## Aiming System

The Wasp aiming system meets the Class 2 requirements for laser safety. The laser information is located on the window of the Scanner as shown below.



# Wasp Barcode Technologies Limited Factory Warranty

## Warranty Coverage

Wasp warrants to Customer that Wasp's products will be free from defects in materials and workmanship for a period of one year from product shipment. Wasp Barcode Technologies ("Wasp") hardware products are warranted against defects in material and workmanship under normal and proper use. The liability of Wasp 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 Wasp has no obligation to modify or update products once sold.

If Wasp determines that a product has defects in material or workmanship, Wasp 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 Wasp. To perform repairs, Wasp 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 Wasp to scrap all parts removed from the repaired product. The warranty period shall extend from the date of shipment from Wasp for the duration published by Wasp for the product at the time of purchase (Warranty period). Wasp 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 Wasp or until the expiration of the original warranty period, whichever is longer. Wasp 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. Refer to:

[http://www.waspbarcode.com/Corporate/warranty\\_periods\\_claims.asp](http://www.waspbarcode.com/Corporate/warranty_periods_claims.asp)

## Warranty Claims Process

Refer to [http://www.waspbarcode.com/Corporate/return\\_policy.asp](http://www.waspbarcode.com/Corporate/return_policy.asp).

## Warranty Exclusions

The Wasp Factory Warranty shall not apply to:

- (i) any product which has been damaged, modified, altered, repaired or upgraded by other than Wasp service personnel or its authorized representatives;
- (ii) any claimed defect, failure or damage which Wasp 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 Wasp;

- (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 Wasp.

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

# NOTES



**Wasp Barcode Technologies 1400 10th St Plano, Texas**

*La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva di Wasp Barcode Technologies. per:  
This Declaration of Conformity is issued under the sole responsibility of Wasp Barcode Technologies for:  
Cette déclaration de conformité est établie sous la seule responsabilité de Wasp Barcode Technologies:  
Diese Konformitätserklärung wird unter der alleinigen Verantwortung des Wasp Barcode Technologies erteilt für:  
Esta declaración de conformidad se expide bajo la exclusiva responsabilidad de Wasp Barcode Technologies para:*

**WLS9600**

*e tutti i suoi modelli  
and all its models  
et tous ses modèles  
und seine Modelle  
y todos sus modelos*

*sono conformi alle Direttive del Consiglio Europeo sottoelencate:  
are in conformity with the requirements of the European Council Directives listed below:  
sont conformes aux spécifications des Directives de l'Union Européenne ci-dessous:  
den nachstehenden angeführten Direktiven des Europäischen Rats:  
cumple con los requisitos de las Directivas del Consejo Europeo, según la lista siguiente:*

**2004/108/EC - EMC Directive  
2011/65/EU - RoHS Directive**

*Basate sulle legislazioni degli Stati membri in relazione alla compatibilità elettromagnetica ed alla sicurezza dei prodotti.  
On the approximation of the laws of Member States relating to electromagnetic compatibility and product safety.  
Basée sur la législation des Etats membres relative à la compatibilité électromagnétique et à la sécurité des produits.  
Über die Annäherung der Gesetze der Mitgliedsstaaten in bezug auf elektromagnetische Verträglichkeit und Produktsicherheit entsprechen.  
Basado en la aproximación de las leyes de los Países Miembros respecto a la compatibilidad electromagnética y las Medidas de seguridad relativas al producto.*

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*Questa dichiarazione è basata sulla conformità dei prodotti alle norme seguenti:  
This declaration is based upon compliance of the products to the following standards:  
Cette déclaration repose sur la conformité des produits aux normes suivantes:  
Diese Erklärung basiert darauf, daß das Produkt den folgenden Normen entspricht:  
Esta declaración se basa en el cumplimiento de los productos con las siguientes normas:*

**EN 55022 (CLASS A ITE), SEPTEMBER 2006:  
AMENDMENT A1 (CLASS A ITE), OCTOBER 2007**

*LIMITS AND METHODS OF MEASUREMENTS OF RADIO DISTURBANCE CHARACTERISTICS OF INFORMATION TECHNOLOGY EQUIPMENT*

**EN 55024, SEPTEMBER 1998:  
AMENDMENT A1:2001+A2:2003**

*INFORMATION TECHNOLOGY EQUIPMENT  
IMMUNITY CHARACTERISTICS  
LIMITS AND METHODS OF MEASUREMENT*

**EN 50581, SEPTEMBER 2012:**

*TECHNICAL DOCUMENTATION FOR THE ASSESSMENT OF ELECTRICAL AND ELECTRONIC PRODUCTS WITH RESPECT TO THE RESTRICTION OF HAZARDOUS SUBSTANCES*

Plano, Texas, Updates September 2013

Jeff Schmeling  
Vice President of Product Development



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

**Wasp Barcode Technologies**  
**1400 10th Street**  
**Plano, Texas USA 75074**



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(Rev. C)

December 2013