

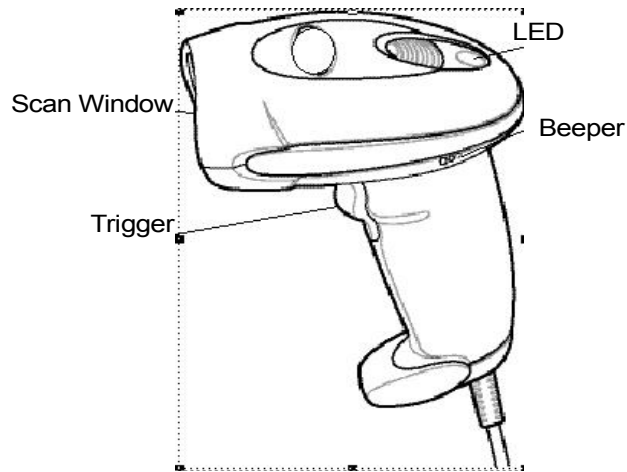
# Wasp WLS 9500

---

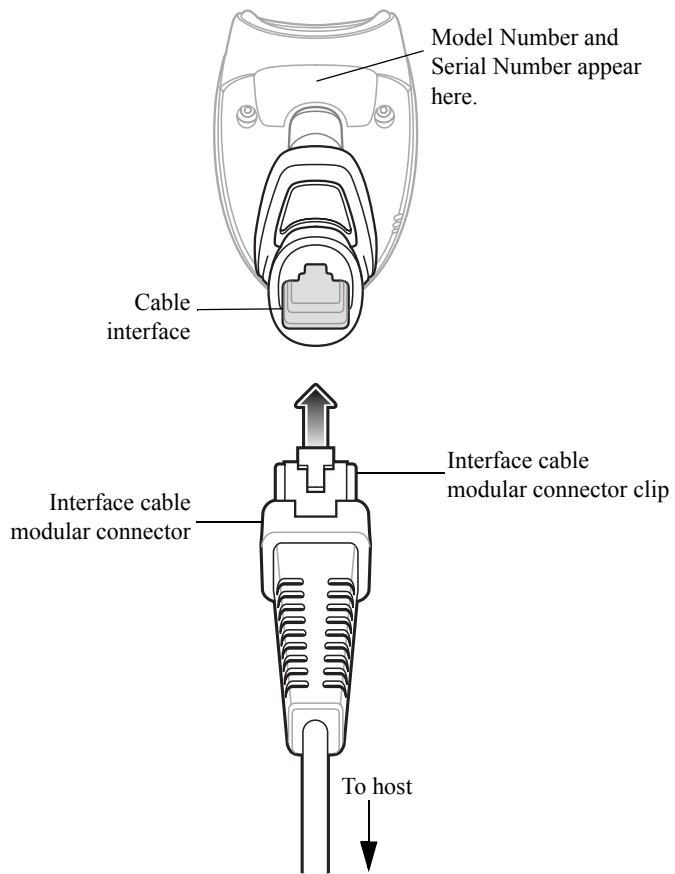


BARCODE TECHNOLOGIES

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



### CORD ATTACHMENT



SCANNER PROGRAMMING BARCODES

**Reset Defaults**



Set All Defaults

**Set Postamble**

Note: If you do not need a Postamble, scan 1 Erase All Rules.

\*Default Setting

**1 Erase All Rules**

Erase All Rules



**2 Begin New Rules**

Begin New Rules



**3 Send All Data**

Send All Data



Enter



TAB



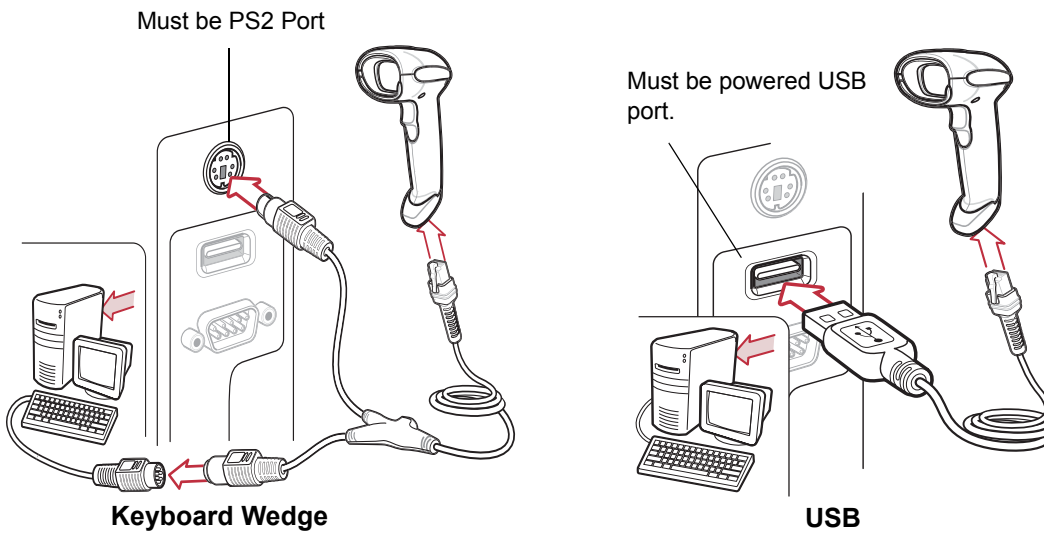
**5 Save All Rules**

Save All Rules



## HOST INTERFACES

Note: Cable may vary depending on configuration.



## SCANNER PROGRAMMING BARCODES

Start Here if you have a USB scanner:

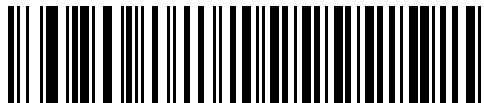


\*HID Keyboard Emulation



USB OPOS Handheld

Start Here if you have a keyboard wedge scanner.



IBM PC/AT and IBM PC Compatible



IBM AT Notebook

TROUBLESHOOTING

	<b>Scanner not working</b>			<b>Scanner not decoding barcode</b>		
<b>Problem</b>	<i>No power to scanner</i>	<i>Incorrect interface cable used</i>	<i>Interface/power cables are loose</i>	<i>Scanner not programmed for barcode type</i>	<i>Barcode unreadable</i>	<i>Distance between scanner and barcode incorrect</i>
<b>Possible Cause</b>						
<b>Resolution</b>	Check system power; ensure power supply, if required, is connected.	Ensure that correct interface cable is used	Check for loose cable connections	Program the scanner to read that type of barcode.	Ensure barcode is not defaced; try scanning test barcode of same barcode type	Move scanner closer to or further from barcode
	<b>Scanner decoding barcode, but data not transmitting to host</b>			<b>No keyboard connected</b>		
<b>Problem</b>	<i>Scanner not programmed for correct host interface</i>		<i>Interface cable is loose</i>	<i>A keyboard is not being used with this device.</i>		
<b>Possible Cause</b>						
<b>Resolution</b>	Check scanner host parameters or edit options (The scanner host barcodes are provided below in the <i>Start Here if you have a USB scanner</i> section and the <i>Start Here if you have a keyboard wedge scanner</i> section.)		Check for loose cable connections	Scan the IBM AT NOTEBOOK barcode (This barcode is provided below in the <i>Start Here if you have a keyboard wedge scanner</i> section.)		

## SYMBOLOGIES

This section provides the following information:

**Enable/Disable Barcodes** - These barcodes allow you to enable or disable symbologies.

**Check Digit Barcodes** - The check digit is the last character of the symbol used to verify the integrity of the data. It is always verified to guarantee the integrity of the data (applies to UPC-A/UPC-E and Code 39 only).

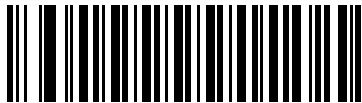
**Preamble Barcodes** - Preamble characters are part of the UPC symbol consisting of Country Code and System character. Three options are given for transmitting UPC-A preamble to the host device: transmit System Character only, transmit System Character and Country Code ("0" for USA) and no preamble transmitted (applies to UPC-A/UPC-E only).

Conversion Barcodes - Allow you to convert UPC and Code 39 barcodes.

\*Denotes default value

### UPC/EAN

#### *Enable/Disable UPC-A/UPC-E*



\*Enable UPC-A



Disable UPC-A



\*Enable UPC-E

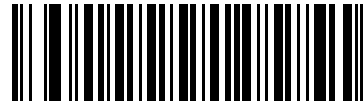


Disable UPC-E

***Enable/Disable UPC-E1***

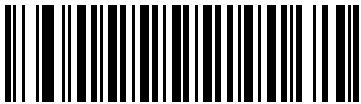


**Enable UPC-E1**



**\*Disable UPC-E1**

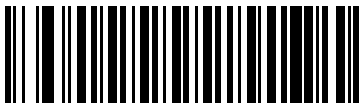
***Enable/Disable EAN-13/EAN-8***



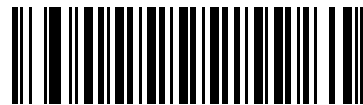
**\*Enable EAN-13**



**Disable EAN-13**

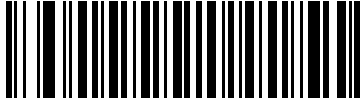


**\*Enable EAN-8**

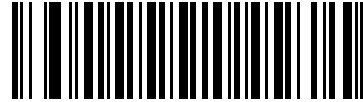


**Disable EAN-8**

***Enable/Disable Bookland EAN***

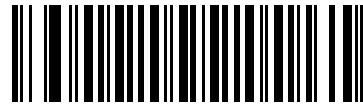


**Enable Bookland EAN**

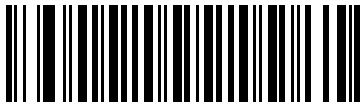


**\*Disable Bookland EAN**

***Transmit UPC-A Check Digit***



**\*Transmit UPC-A Check Digit**



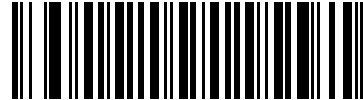
**Do Not Transmit UPC-A Check Digit**



**Transmit UPC-E1 Check Digit.**

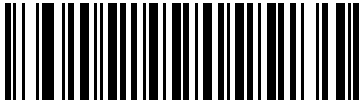


**\*Transmit UPC-E1 Check Digit**

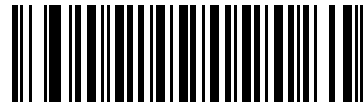


**Do Not Transmit UPC-E1 Check Digit**

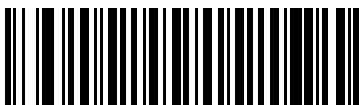
**UPC-A Preamble**



**No Preamble  
(<DATA>)**



**\*System Character  
(<SYSTEM CHARACTER> <DATA>)**



**System Character & Country Code  
(< COUNTRY CODE> <SYSTEM CHARACTER> <DATA>)**

**UPC-E Preamble**



No Preamble  
(<DATA>)

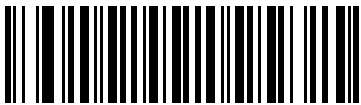


\*System Character  
(<SYSTEM CHARACTER> <DATA>)

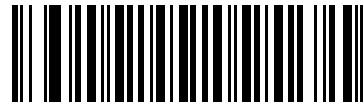


System Character & Country Code  
(< COUNTRY CODE> <SYSTEM CHARACTER> <DATA>)

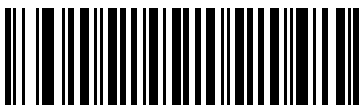
**UPC-E1 Preamble**



No Preamble  
(<DATA>)



\*System Character  
(<SYSTEM CHARACTER> <DATA>)

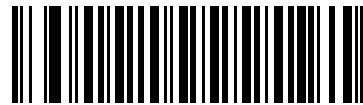


System Character & Country Code  
(< COUNTRY CODE> <SYSTEM CHARACTER> <DATA>)

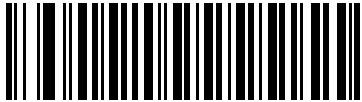
**Convert UPC-E to UPC-A**

Enable this to convert UPC-E (zero suppressed) decoded data to UPC-A format before transmission. After conversion, the data follows UPC-A format and is affected by UPC-A programming selections (e.g., Preamble, Check Digit).

When disabled, UPC-E decoded data is transmitted as UPC-E data, without conversion.



**Convert UPC-E to UPC-A  
(Enable)**



**\*Do Not Convert UPC-E to UPC-A  
(Disable)**

**Convert UPC-E1 to UPC-A**

Enable this to convert UPC-E1 decoded data to UPC-A format before transmission. After conversion, the data follows UPC-A format and is affected by UPC-A programming selections (e.g., Preamble, Check Digit).

When disabled, UPC-E1 decoded data is transmitted as UPC-E1 data, without conversion.



**Convert UPC-E1 to UPC-A  
(Enable)**



**\*Do Not Convert UPC-E1 to UPC-A  
(Disable)**

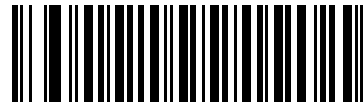
***EAN-8/JAN-8 Extend***

When enabled, this parameter adds five leading zeros to decoded EAN-8 symbols to make them compatible in format to EAN-13 symbols.

When disabled, EAN-8 symbols are transmitted as is.



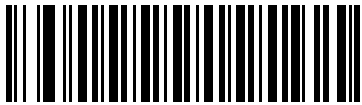
**Enable EAN/JAN Zero Extend**



**\*Disable EAN/JAN Zero Extend**

**Code 128**

***Enable/Disable Code 128.***

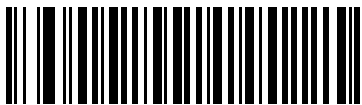


**\*Enable Code 128**



**Disable Code 128**

***Enable/Disable UCC/EAN-128***



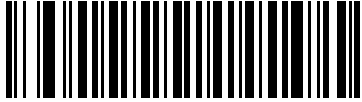
**\*Enable UCC/EAN-128**



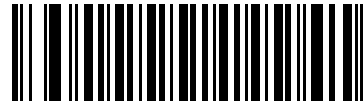
**Disable UCC/EAN-128**

**Enable/Disable ISBT 128**

ISBT 128 is a variant of Code 128 used in the blood bank industry. Scan the appropriate bar code below to enable or disable ISBT 128. If necessary, the host must perform concatenation of the ISBT data.



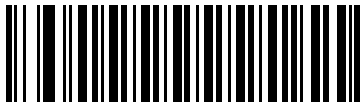
**\*Enable ISBT 128**



**Disable ISBT 128**

**Code 39**

**Enable/Disable Code 39**



**\*Enable Code 39**



**Disable Code 39**

**Enable/Disable Trioptic Code 39**

Trioptic Code 39 is a variant of Code 39 used in the marking of computer tape cartridges. Trioptic Code 39 symbols always contain six characters.



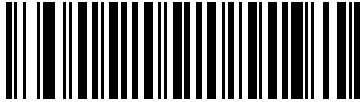
**Enable Trioptic Code 39**



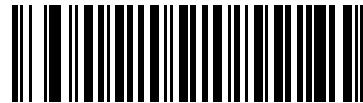
**\*Disable Trioptic Code 39**

Trioptic Code 39 and Code 39 Full ASCII cannot be enabled simultaneously.

***Transmit Code 39 Check Digit***



**Transmit Code 39 Check Digit  
(Enable)**



**\*Do Not Transmit Code 39 Check Digit  
(Disable)**

Code 39 Check Digit Verification must be enabled for this parameter to function.

***Convert Code 39 to Code 32***

Code 32 is a variant of Code 39 used by the Italian pharmaceutical industry. Scan the appropriate bar code below to enable or disable converting Code 39 to Code 32.



**Enable Convert Code 39 to Code 32**



**\*Disable Convert Code 39 to Code 32**

**Code 32 Prefix**



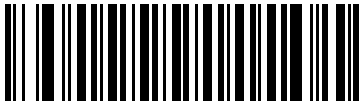
**Enable Code 32 Prefix**



**\*Disable Code 32 Prefix**

**Code 93**

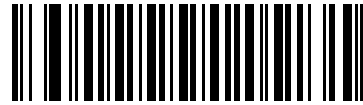
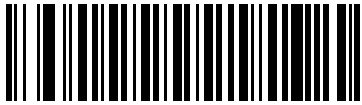
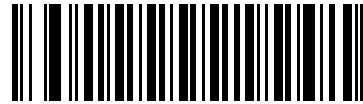
**Enable/Disable Code 93**



**Enable Code 93**



**\*Disable Code 93**

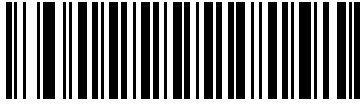
**Code 11*****Enable/Disable Code 11.*****Enable Code 11****\*Disable Code 11****Interleaved 2 of 5 (ITF)*****Enable/Disable Interleaved 2 of 5*****\*Enable Interleaved 2 of 5****Disable Interleaved 2 of 5**

Due to the construction of the I 2 of 5 symbology, it is possible for a scan line covering only a portion of the code to be interpreted as a complete scan, yielding less data than is encoded in the bar code. To prevent this, select specific lengths (**I 2 of 5 - One Discrete Length - Two Discrete Lengths**) for I 2 of 5 applications.

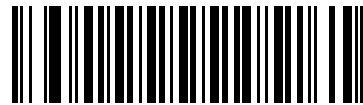


**Discrete 2 of 5 (DTF)**

***Enable/Disable Discrete 2 of 5***



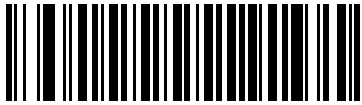
**Enable Discrete 2 of 5**



**\*Disable Discrete 2 of 5**

**Codabar (NW - 7)**

***Enable/Disable Codabar***



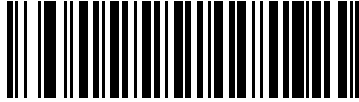
**Enable Codabar**



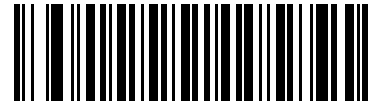
**\*Disable Codabar**

**RSS (Reduced Space Symbology)**

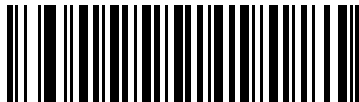
The variants of RSS are RSS 14, RSS Expanded and RSS Limited. RSS 14 and RSS Expanded include stacked versions. Scan the appropriate bar code below to enable or disable each variant of RSS.



**Enable RSS 14**



**\*Disable RSS 14**



**Enable RSS Limited**



**\*Disable RSS Limited**



**Enable RSS Expanded**



**\*Disable RSS Expanded**

**SAMPLE BARCODES**

**Code 39**



**UPC/EAN**

**UPC-A, 100%**



**EAN-13, 100%**



**Code 128**



Interleaved 2 of 5



RSS



10293847560192837465019283746029478450366523  
(RSS Expanded Stacked)



1234890hjo9900mnb  
(RSS Expanded)



08672345650916  
(RSS Limited)

**RSS-14**



**55432198673467**  
**(RSS-14 Truncated)**



**90876523412674**  
**(RSS-14 Stacked)**



**78123465709811**  
**(RSS-14 Stacked Omni-Directional)**

## WASP DURALINE INDUSTRIAL SCANNER

### PATENTS

This product is covered by one or more of the following U.S. and foreign Patents:

U.S. Patent No. 4,593,186; 4,603,262; 4,607,156; 4,652,750; 4,673,805;  
4,736,095; 4,758,717; 4,760,248; 4,806,742; 4,816,660; 4,845,350; 4,896,026;  
4,897,532; 4,923,281; 4,933,538; 4,992,717; 5,015,833; 5,017,765; 5,021,641;  
5,029,183; 5,047,617; 5,103,461; 5,113,445; 5,130,520; 5,140,144; 5,142,550;  
5,149,950; 5,157,687; 5,168,148; 5,168,149; 5,180,904; 5,216,232; 5,229,591;  
5,230,088; 5,235,167; 5,243,655; 5,247,162; 5,250,791; 5,250,792; 5,260,553;  
5,262,627; 5,262,628; 5,266,787; 5,278,398; 5,280,162; 5,280,163; 5,280,164;  
5,280,498; 5,304,786; 5,304,788; 5,306,900; 5,324,924; 5,337,361; 5,367,151;  
5,373,148; 5,378,882; 5,396,053; 5,396,055; 5,399,846; 5,408,081; 5,410,139;  
5,410,140; 5,412,198; 5,418,812; 5,420,411; 5,436,440; 5,444,231; 5,449,891;  
5,449,893; 5,468,949; 5,471,042; 5,478,998; 5,479,000; 5,479,002; 5,479,441;  
5,504,322; 5,519,577; 5,528,621; 5,532,469; 5,543,610; 5,545,889; 5,552,592;  
5,557,093; 5,578,810; 5,581,070; 5,589,679; 5,589,680; 5,608,202; 5,612,531;  
5,619,028; 5,627,359; 5,637,852; 5,664,229; 5,668,803; 5,675,139; 5,693,929;  
5,698,835; 5,705,800; 5,714,746; 5,723,851; 5,734,152; 5,734,153; 5,742,043;  
5,745,794; 5,754,587; 5,762,516; 5,763,863; 5,767,500; 5,789,728; 5,789,731;  
5,808,287; 5,811,785; 5,811,787; 5,815,811; 5,821,519; 5,821,520; 5,823,812;  
5,828,050; 5,848,064; 5,850,078; 5,861,615; 5,874,720; 5,875,415; 5,900,617;  
5,902,989; 5,907,146; 5,912,450; 5,914,478; 5,917,173; 5,920,059; 5,923,025;  
5,929,420; 5,945,658; 5,945,659; 5,946,194; 5,959,285; 6,002,918; 6,021,947;  
6,029,894; 6,031,830; 6,036,098; 6,047,892; 6,050,491; 6,053,413; 6,056,200;  
6,065,678; 6,067,297; 6,082,621; 6,084,528; 6,088,482; 6,092,725; 6,101,483;  
6,102,293; 6,104,620; 6,114,712; 6,115,678; 6,119,944; 6,123,265; 6,131,814;  
6,138,180; 6,142,379; 6,172,478; 6,176,428; 6,178,426; 6,186,400; 6,188,681;  
6,209,788; 6,209,789; 6,216,951; 6,220,514; 6,243,447; 6,244,513; 6,247,647;  
6,308,061; 6,250,551; 6,295,031; 6,308,061; 6,308,892; 6,321,990; 6,328,213;  
6,330,244; 6,336,587; 6,340,114; 6,340,115; 6,340,119; 6,348,773; 6,380,949;  
6,394,355; D305,885; D341,584; D344,501; D359,483; D362,453; D363,700;  
D363,918; D370,478; D383,124;  
D391,250; D405,077; D406,581; D414,171; D414,172; D418,500; D419,548;  
D423,468; D424,035;  
D430,158; D430,159; D431,562; D436,104.  
Invention No. 55,358; 62,539; 69,060; 69,187, NI-068564 (Taiwan); No.  
1,601,796; 1,907,875; 1,955,269 (Japan); European Patent 367,299; 414,281;  
367,300; 367,298; UK 2,072,832; France 81/03938; Italy 1,138,713

### 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.

### REGULATORY INFORMATION

All Wasp devices 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 Wasp Technologies equipment, not expressly approved by Wasp Technologies, could void the user's authority to operate the equipment.

Antenna's, use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could cause damage and may violate regulations.

### LASER LABELS



In accordance with Clause 5, IEC 825 and EN60825, the following information is provided to the user:

#### ENGLISH

CLASS 1 CLASS 1 LASER PRODUCT  
CLASS 2 LASER LIGHT  
DO NOT STARE INTO BEAM  
CLASS 2 LASER PRODUCT

#### DUTCH / NEDERLANDS

KLASSE 1 KLASSE-1 LASERPRODUKT  
KLASSE 2 LASERLICHT  
NIET IN STRAAL STAREN  
KLASSE-2 LASERPRODUKT

#### FRENCH / FRANÇAIS

CLASSE 1 PRODUIT LASER DE CLASSE 1  
CLASSE 2 LUMIERE LASER  
NE PAS REGARDER LE  
RAYON FIXEMENT  
PRODUIT LASER DE CLASSE 2

#### SPANISH / ESPAÑOL

CLASE 1 PRODUCTO LASER DE LA  
CLASE 1  
CLASE 2 LUZ LASER  
NO MIRE FIJAMENTE EL HAZ  
PRODUCTO LASER DE LA  
CLASE 2

#### GERMAN / DEUTSCH

KLASSE 1 LASERPRODUKT DER  
KLASSE 1  
KLASSE 2 LASERSTRAHLEN  
NICHT DIREKT IN DEN  
LASERSTRAHL SCHAUEN  
LASERPRODUKT DER  
KLASSE 2

### RADIO FREQUENCY INTERFERENCE REQUIREMENTS



**Note:** 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 this 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:

• Reorient 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.

### 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.

### Marking and European Economic Area (EEA)

### LASER DEVICES



Wasp products using lasers comply with US 21CFR1040.10, and IEC825-1:1993, EN60825-1:1994+A11:1996. The laser classification is marked on one of the labels on the product.

Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

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

Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.