Wasp

BARCODE TECHNOLOGIES

WDI4600

1D 2D Digital Scanner USB

Quick Reference Guide

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: EP996284; EP999514; EP1128315; EP1172756;
EP1396811; EP1413971; EP1828957; JP4435343; US5481098;
US6478224; US6512218; US6513714; US6561427; US6758403;
US6808114; US6877664; US6997385; US7053954; US7234641;
US7387246; US7721966.

Additional patents pending.

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NOTES

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WDI4600 PRODUCT SERIES
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- END -

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WDI4600

Description

With rich feature sets and extensive model options, the WDI4600 product series from Wasp Barcode Technologies represents the premium level of data collection equipment for general purpose applications. The WDI4600 reader has enhanced optics with improved motion tolerance, allowing codes placed on fast-moving objects to be easily and quickly captured, creating the ideal reader for tasks requiring high throughput like those found in retail and light industrial environments.

Omni-Directional Operating	To read a symbol or capture an image, simply aim the reader and pull the trigger. The WDI4600 is a powerful omni-directional reader, so the orientation of the symbol is not important. When using the product with the cradle at a 45° position, the aiming pattern can work as an aiming system to aid in positioning the barcode for quick and intuitive reading.
Decoding	Reliably decodes all standard 1D (linear) and 2D barcodes, including GS1 DataBar™ linear codes, Postal Codes (China Post), Stacked Codes (such as GS1 DataBar Expanded Stacked, GS1 DataBar Stacked, GS1 DataBar, Stacked Omnidirectional). The data stream — acquired from decoding a symbol — is rapidly sent to the host. The reader is immediately available to read another symbol.
Imaging	The WDI4600 can also function as a camera by capturing entire images or image portions of labels, signatures, and other items.

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.
2. Configure the Interface (see page 8).
3. Configure the Reader starting on page 19 (optional, depends on settings needed).

Connect/Disconnect Cable to Reader

Figure 1. Connecting to the Reader

Host Connection: The WDI4600 plugs directly into the host device as shown in Figure 2. The power can also be supplied through an external power supply via the Interface Cable supplied with a power jack.

Figure 2. Connecting to the Host

Using the WDI4600

The WDI4600 normally functions by capturing and decoding codes. The reader is equipped with an internal motion-sensing function wh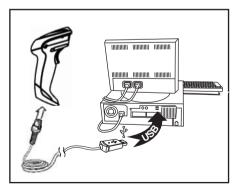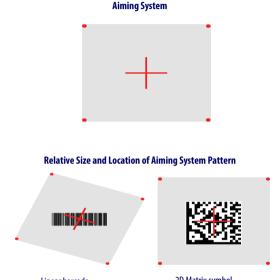ich activates the aiming system on device motion. The intelligent aiming system indicates the field of view which should be positioned over the barcode:

Aiming System

Relative Size and Location of Aiming System Pattern

Linear barcode   2D Matrix symbol

A red beam illuminates the label. The field of view indicated by the aiming system will be smaller when the reader is closer to the barcode 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 and the entire barcode is within the aiming field, you will get a good read. Successful reading is signaled by an audible tone plus a good-read green spot LED indicator.

Reference the WDI4600 Product Reference Guide (PRG) 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 (for example: RS-232, Keyboard Wedge, USB, etc.) and scan the appropriate barcode to select your system's correct interface type.

Interface Selection

Each reader model will support one of the following sets of host interfaces:

General Purpose Models: RS-232, RS-232 OPOS, USB, Keyboard Wedge, Wand.

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 WDI4600 PRG.

Configuring the Interface

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

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

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 barcodes.

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

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.waspbarcode.com

Keyboard Interface

Use the programming barcodes 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)

PC/XT w/Standard Key Encoding

Select KBD-XT

Keyboard Wedge for IBM Terminal 3153

Select KBD-IBM-3153

Keyboard Wedge for IBM Terminals 31xx, 32xx, 34xx, 37xx make only keyboard

Select KBD-IBM-M

Keyboard Wedge for IBM Terminals 31xx, 32xx, 34xx, 37xx make break keyboard

Select KBD-IBM-MB

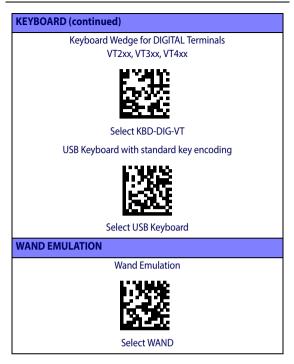USB Keyboard with alternate key encoding

Select USB Alternate Keyboard

USB Keyboard for Apple computers

Select USB-KBD-APPLE

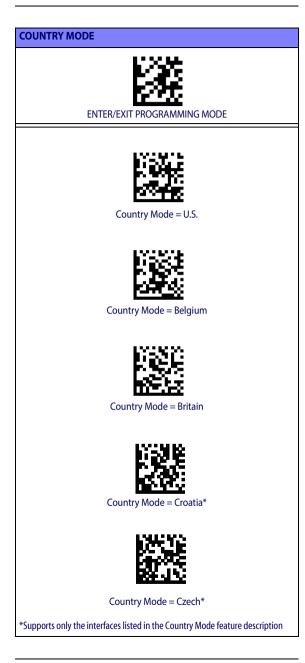| **KEYBOARD (continued)** |
|---|
| Keyboard Wedge for DIGITAL Terminals
VT2xx, VT3xx, VT4xx |
| |
| Select KBD-DIG-VT |
| USB Keyboard with standard key encoding |
| |
| Select USB Keyboard |
| **WAND EMULATION** |
| Wand Emulation |
| |
| Select WAND |

Scancode Tables

Reference the WDI4600 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 (without alternate 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 = Britain

Country Mode = Croatia*

Country Mode = Czech*

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

COUNTRY MODE (continued)

Country Mode = Denmark*

Country Mode = France

Country Mode = French Canadian*
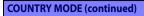

Country Mode = Germany

Country Mode = Hungary*

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

COUNTRY MODE (continued)

Country Mode = Italy

Country Mode = Japanese 106-key*

Country Mode = Lithuanian*

Country Mode = Norway*

Country Mode = Poland*

Country Mode = Portugal*

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

COUNTRY MODE (continued)

Country Mode = Romania*

Country Mode = Spain

Country Mode = Sweden

Country Mode = Slovakia*

Country Mode = Switzerland*

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

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.

ENTER/EXIT PROGRAMMING MODE

Caps Lock State = Caps Lock OFF

Caps Lock State = Caps Lock ON

Caps Lock State = AUTO Caps Lock Enable

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.

ENTER/EXIT PROGRAMMING MODE

Numlock = Numlock key unchanged

Numlock = Numlock key toggled

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 barcodes available in the WDI4600 PRG. Check the corresponding features section for your interface, and also the Data Editing and Symbologies chapters of the PRG.

Using Programming Barcodes

This manual contains barcodes which allow you to reconfigure your reader. Some programming barcode labels, like the "Reset Default Settings" on page 19, require only the scan of that single label to enact the change.

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

Configure Other Settings

Additional programming barcodes 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 barcode 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 8 for more information.**

Reset Default Settings

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 WDI4600 on page 7 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 WDI4600 PRG for more information and programming barcodes.

Good Read Green Spot Duration

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

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. Motion Sense is active and if the scanner detects motion the aiming pattern is turned on. 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[3]: 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 red illumination switches on. Scanning continues until a label is read or "maximum scan on time" is reached.

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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.
3. This feature is available starting with firmware release 610001013.

Scan Mode (continued)

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*

* This feature is available starting with firmware release 610001013

Stand Mode Operation

Stand Mode: In Stand Mode, the illumination remains on for a configurable amount of time after a good read occurs. The scanner exits stand mode when movement is detected. If the trigger is activated from stand mode, the scanner transitions into one of the triggered modes.

This feature is available starting with firmware release 610001013.

ENTER/EXIT PROGRAMMING MODE

♦ Stand Mode = Disabled

Stand Mode = Generic Stand

Stand Mode = for All-in-one and Base

Stand Mode = Precise Stand

Pick Mode

Specifies the ability of the reader to decode labels only when they are close to the center of the aiming pattern. Pick Mode is a Decoding and Transmission process where barcodes 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.**

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 Specifications

The following table contains Physical and Performance Characteristics, User Environment and Regulatory information.

Item	Description
Physical Characteristics	
Color	Black/Yellow
Dimensions	Height 7.1"/181 mm Length 3.9"/100 mm Width 2.8"/71 mm
Weight (without cable)	Approximately 6.9 ounces /195.6 g
Electrical Characteristics	
Voltage & Current	Input Voltage • 5.25VDC Operating (typical) • 160ma Operating (max) • 350ma Idle/standby (typical) • 65ma
Performance Characteristics	
Light Source	LEDs
Roll (Tilt) Tolerance	Up to ± 180°
Pitch Tolerance	± 40°
Skew (Yaw) Tolerance	± 40°
Print Contrast Minimum	25% minimum reflectance

Depth of Field (Typical)[a]		
Symbology	**SR:**	**HD:**
Code 39	5mil: 1.6" -7.5" (4.0 -19cm) 10mil: 0.4" - 11..8" (1.0 - 30cm) 20mil: up to 17.7" (up to 45cm)	3mil: 0.9" - 3.6" (2.4 - 9.1cm) 5 mil: 0.3" - 4.5" (0.8 -11.3cm)
EAN	7.5mil: 0.5" - 10.6" (2.0 - 27cm) 13mil: 0.6" - 15.7" (1.5 - 40cm)	7.5mil: 0" - 5" (0 - 12.7cm) 13mil: .43" - 6.8" (1.1- 17.2cm)
PDF-417	6.6mil: 1.0" - 5.9" (2.5 - 15cm) 10mil: 0.2" - 8.6" (0.5 - 22cm) 15mil: 0.6" - 13.4" (1.5 - 34cm)	4mil: 0.7" - 2.7" (1.8 - 6.8cm) 6.6mil: 0.1" - 4.4" (0.1 - 11.2cm) 10mil: 0" - 5.6" (0 - 14.3cm)
DataMatrix	10mil: 0.8" to 6.3" (2.0 - 16cm) 15mil: 0" to 9.3" (0 - 23.6cm)	5mil: 1.1" - 2.4" (2.8-6.1cm)
QR Code	10mil: 1.2" to 4.9" (3.0 - 12.5cm) 15mil: 0.4" to 7.5" (1.0 - 19cm)	6.7mil: 0.8" - 1.7" (2.1 - 4.2cm)
Minimum Element Width	**Standard Range:** 1D Min Resolution = 4 mil PDF-417 Min Resolution = 5 mil Datamatrix Min Resolution = 7 mil	**High Density:** 1D Min Resolution = 2.5 mil PDF-417 Min Resolution = 4 mil Datamatrix Min Resolution = 5 mil

a. 13 mils DOF based on EAN. All other 1D codes are Code 39. All labels grade A, typical environmental light, 20°C, label inclination 10°

Decode Capability

1D Barcodes

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; China Post Code/Chinese 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 WDI4600 scanner is capable of decoding the following sybmologies 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; 4-State Canada; PDF-417; MacroPDF; Micro PDF417; GS1 Composites (1 - 12); Codablock F; French CIP13; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; GS1 DataBar Expanded Stacked; GSI Databar Composites; Chinese Sensible Code; Inverted 2D codes[a] .

[a]The SW can apply the Normal/Reverse Decoding Control to the following symbologies: Datamatrix, QR, Micro QR, Aztec and Chinese Sensible Code.

Interfaces Supported	USB Com Std., USB Keyboard, USB See page 8 for a listing of available interface options.

User Environment

Operating Temperature	32° to 131° F (0° to 55° C)
Storage Temperature	-4° to 158° F (-20° to 70° C)
Humidity	Operating: 5% to 90% relative humidity, non-condensing
Drop Specifications	Scanner withstands 18 drops from 1.8 meters (6.0 feet) to concrete
Ambient Light Immunity	Up to 100,000 Lux
Contaminants Spray/rain Dust/particulates	IEC 529-IP52

ESD Level	16 KV
Regulatory	
Electrical Safety	UL 60950, CSA C22.2 No. 60950, IEC 60950
EMI/RFI	North America (FCC) : Part 15 Class B; Canada (IC) : ICES-003 Class B; European Union EMC Directive; Australia (ACMA)
Laser Class Safety	IEC Class 2 Radiation 1 mW Avg., Emitted wavelength 650 nm, 12ms pulse, Beam Divergence 8.4 deg x 8.1 deg ("plus" pattern)

Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

LED and Beeper Indications

The reader's beeper sounds and its LED illuminates to indicate various functions or errors on the reader. An optional "Green Spot" also performs useful functions. The following tables list these indications. One exception to the behaviors listed in the tables is that the reader's functions are programmable, and so may or may not be turned on. For example, certain indications such as the power-up beep can be disabled using programming barcode labels.

Indicator	Description	LED	Beeper
Power-up Beep	The reader is in the process of powering-up.		Reader beeps four times at highest frequency and volume upon power-up.
Good Read Beep	A label has been successfully scanned by the reader.	LED behavior for this indication is configurable via the feature "Good Read: When to Indicate" (see the PRG for information.)	The reader will beep once at current frequency, volume, mono/bitonal setting and duration upon a successful label scan.

Indicator	Description	LED	Beeper
ROM Failure	There is an error in the reader's software/programming	Flashes	Reader sounds one error beep at highest volume.
Limited Scanning Label Read	Indicates that a host connection is not established.	N/A	Reader 'chirps' six times at the highest frequency and current volume.
Reader Active Mode	The reader is active and ready to scan.	The LED is lit steadily[a]	N/A
Reader Disabled	The reader has been disabled by the host.	The LED blinks continuously	N/A
Green Spot[a] flashes momentarily	Upon successful read of a label, the software shall turn the green spot on for the time specified by the configured value.	N/A	N/A
Image Capture	When ready to capture image	Blue light flashes 2 times when updating	N/A

[a]Except when in sleep mode or when a Good Read LED Duration other than 00 is selected

Programming Mode - The following indications ONLY occur when the reader is in Programming Mode.

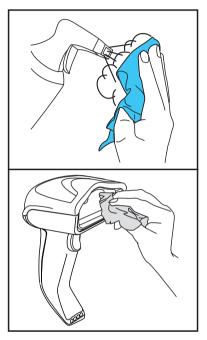| INDICATION	DESCRIPTION	LED	BEEPER
Label Programming Mode Entry	A valid programming label has been scanned.	LED blinks continuously	Reader sounds four low frequency beeps.
Label Programming Mode Rejection of Label	A label has been rejected.	N/A	Reader sounds three times at lowest frequency and current volume.
Label Programming Mode Acceptance of Partial Label	In cases where multiple labels must be scanned to program one feature, this indication acknowledges each portion as it is successfully scanned.	N/A	Reader sounds one short beep at highest frequency and current volume.
Label Programming Mode Acceptance of Programming	Configuration option(s) have been successfully programmed via labels and the reader has exited Programming Mode.	N/A	Reader sounds one high frequency beep and 4 low frequency beeps followed by reset beeps.
Label Programming Mode Cancel Item Entry	Cancel label has been scanned.	N/A	Reader sounds two times at low frequency and current volume.

Error Codes

Upon startup, if the reader sounds a long tone, this means the reader has not passed its automatic Selftest and has entered FRU (Field Replaceable Unit) isolation mode. If the reader is reset, the sequence will be repeated. Press and release the trigger to hear the FRU indication code.

The following table describes the LED flashes/beep codes associated with an error found.

Number of LED Flashes/ Beeps	Error	Corrective Action
1	Configuration	Contact Helpdesk for assistance
2	Interface PCB	
6	Digital PCB	
11	Imager	

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.

CAUTION

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.

Statement of Agency Compliance

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Class B Compliance Statement

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

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 instructions, 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 or television technician for help.

Canadian Notice

This equipment does not exceed the Class B limits for radio noise emissions as described in the Radio Interference Regulations of the Canadian Department of Communications.

Le present appareil numerique n'emet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de la classe B prescrites dans le Reglement sur le brouillage radioelectrique edicte par le ministere des Communications du Canada.
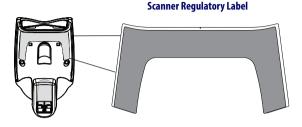
Do not attempt to open or otherwise service any components in the optics cavity. Opening or servicing any part of the optics cavity by unauthorized personnel may violate laser safety regulations.

CAUTION

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 5-14V minimum 900mA.
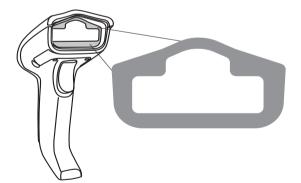
Imager Labeling

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 WDI4600 aiming system meets the Class 2 requirements for laser safety. The laser information is located on the window of the Scanner as shown below.

I	D	F	E
LA LUCE LASER È VISIBILE ALL'OCCHIO UMANO E VIENE EMESSA DALLA FINESTRA INDICATA NELLA FIGURA.	DIE LASER-STRAHLUNG IST FÜR DAS MENSCHLICHE AUGE SICHTBAR UND WIRD AM STRAHLAUS TRITTS-FENSTER AUSGESENDET (SIEHE BILD)	LE RAYON LASER EST VISIBLE À L'OEIL NU ET IL EST ÉMIS PAR LA FENÊTRE DÉSIGNÉE SUR L'ILLUSTRATION DANS LA FIGURE	A LUZ LÁSER ES VISIBLE AL OJO HUMANO Y ES EMITIDA POR LA VENTANA INDICADA EN LA FIGURA.
LUCE LASER NON FISSARE IL FASCIO APPARECCHIO LASER DI CLASSE 2 MASSIMA POTENZA D'USCITA: LUNGHEZZA D'ONDA EMESSA: CONFORME A EN 60825-1 (2007)	LASERSTRAHLUNG NICHT IN DEN STRAHL BLICKEN PRODUKT DER LASERKLASSE 2 MAXIMALE AUSGANGSLEISTUNG: WELLENLÄGE: ENTSPR. EN 60825-1 (2007)	RAYON LASER EVITER DE REGARDER LE RAYON APPAREIL LASER DE CLASSE 2 PUISSANCE DE SORTIE: LONGUEUR D'ONDE EMISE: CONFORME A EN 60825-1 (2007)	RAYO LÁSER NO MIRAR FIJO EL RAYO APARATO LÁSER DE CLASE 2 MÁXIMA POTENCIA DE SALIDA: LONGITUD DE ONDA EMITIDA: CONFORME A EN 60825-1 (2007)

ENGLISH

The following information is provided to comply with the rules imposed by international authorities and refers to the correct use of your terminal.

STANDARD LASER SAFETY REGULATIONS

This product conforms to the applicable requirements of both CDRH 21 CFR 1040 and EN 60825-1 at the date of manufacture.

For installation, use and maintenance, it is not necessary to open the device.

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

The product 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 with any very strong light source, such as the sun. Avoid that the laser beam hits the eye of an observer, even through reflective surfaces such as mirrors, etc.

ITALIANO

Le seguenti informazioni vengono fornite dietro direttive delle autorità internazionali e si riferiscono all'uso corretto del terminale.

NORMATIVE STANDARD PER LA SICUREZZA LASER

Questo prodotto risulta conforme alle normative vigenti sulla sicurezza laser alla data di produzione: CDRH 21 CFR 1040 e EN 60825-1.

Non si rende mai necessario aprire l'appa-recchio per motivi di installazione, utilizzo o manutenzione.

⚠️ **ATTENZIONE**　**L'utilizzo di procedure o regolazioni differenti da quelle descritte nella documentazione può provocare un'esposizione pericolosa a luce laser visibile.**

Il prodotto utilizza un diodo laser a bassa potenza. Sebbene non siano noti danni riportati dall'occhio umano in seguito ad una esposizione di breve durata, evitare di fissare il raggio laser così come si eviterebbe qualsiasi altra sorgente di luminosità intensa, ad esempio il sole. Evitare inoltre di dirigere il raggio laser negli occhi di un osservatore, anche attraverso superfici riflettenti come gli specchi.

DEUTSCH

Die folgenden Informationen stimmen mit den Sicherheitshinweisen überein, die von internationalen Behörden auferlegt wurden, und sie beziehen sich auf den korrekten Gebrauch vom Terminal.

NORM FÜR DIE LASERSICHERHEIT

Dies Produkt entspricht am Tag der Herstellung den gültigen EN 60825-1 und CDRH 21 CFR 1040 Normen für die Lasersicherheit.

Es ist nicht notwendig, das Gerät wegen Betrieb oder Installations-, und Wartungs-Arbeiten zu öffnen.

⚠ ACHTUNG   **Jegliche Änderungen am Gerät sowie Vorgehensweisen, die nicht in dieser Betriebsanleitung beschrieben werden, können ein gefährliches Laserlicht verursachen.**

Der Produkt benutzt eine Laserdiode. Obwohl zur Zeit keine Augenschäden von kurzen Einstrahlungen bekannt sind, sollten Sie es vermeiden für längere Zeit in den Laserstrahl zu schauen, genauso wenig wie in starke Lichtquellen (z.B. die Sonne). Vermeiden Sie es, den Laserstrahl weder gegen die Augen eines Beobachters, noch gegen reflektierende Oberflächen zu richten.

FRANÇAIS

Les informations suivantes sont fournies selon les règles fixées par les autorités internationales et se réfèrent à une correcte utilisation du terminal.

NORMES DE SECURITE LASER

Ce produit est conforme aux normes de sécurité laser en vigueur à sa date de fabrication: CDRH 21 CFR 1040 et EN 60825-1.

Il n'est pas nécessaire d'ouvrir l'appareil pour l'installation, l'utilisation ou l'entretien.

⚠ ATTENTION   **L'utilisation de procédures ou réglages différents de ceux donnés ici peut entraîner une dangereuse exposition à lumière laser visible.**

Le produit utilise une diode laser. Aucun dommage aux yeux humains n'a été constaté à la suite d'une exposition au rayon laser. Eviter de regarder fixement le rayon, comme toute autre source lumineuse intense telle que le soleil. Eviter aussi de diriger le rayon vers les yeux d'un observateur, même à travers des surfaces réfléchissantes (miroirs, par exemple).

ESPAÑOL

Las informaciones siguientes son presentadas en conformidad con las disposiciones de las autoridades internacionales y se refieren al uso correcto del terminal.

NORMATIVAS ESTÁNDAR PARA LA SEGURIDAD LÁSER

Este aparato resulta conforme a las normativas vigentes de seguridad láser a la fecha de producción: CDRH 21 CFR 1040 y EN 60825-1.

No es necesario abrir el aparato para la instalación, la utilización o la manutención.

ATENCIÓN

La utilización de procedimientos o regulaciones diferentes de aquellas descritas en la documentación puede causar una exposición peligrosa a la luz láser visible.

El aparato utiliza un diodo láser a baja potencia. No son notorios daños a los ojos humanos a consecuencia de una exposición de corta duración. Eviten de mirar fijo el rayo láser así como evitarían cualquiera otra fuente de luminosidad intensa, por ejemplo el sol. Además, eviten de dirigir el rayo láser hacia los ojos de un observador, también a través de superficies reflectantes como los espejos.

CAUTION

The WDI4600 Handheld Reader is not user-serviceable. Opening the case of the unit can cause internal damage and will void the warranty.

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/warrenty_periods_claims.asp

Warranty Claims Process

Refer to 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 NONINFRINGEMENT. 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.

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.

Services and Support

Log on to **www.waspbarcode.com** and click on the links indicated for information.

Wasp ®
BARCODE TECHNOLOGIES

DECLARATION OF CONFORMITY

$C\epsilon$ **13** **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:

WDI4600; Barcode Reader

> *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.

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 EQUIPMENTS*
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

Jeff Schmeling

www.waspbarcode.com

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