

# WDT60™ Personal Digital Assistant (PDA)



## User's Manual

## **Wasp Barcode Technologies**

1400 10th Street

Plano, TX 75074

Telephone: 866-547-9277

Fax: 214-547-4101

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### **Patents**

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

Design patents: EP001711946, USD633502, ZL201030189483.7

Utility patents: EP0681257B1.

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# REFERENCES

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## CONVENTIONS

This manual uses the following conventions:

“User” refers to anyone using an WDT60 PDA.

“PDA” and “WDT60” refer to WDT60 PDA.

“You” refers to the System Administrator or Technical Support person using this manual to install, configure, operate, maintain or troubleshoot an WDT60 PDA.

“Single Dock” refers to the WDT60 Single Slot Dock.

The label artworks may be only a draft. Refer to the product labels for more precise information.

## REFERENCE DOCUMENTATION

For further information regarding WDT60 refer to the SDK Help on-Line.

## SERVICES AND SUPPORT

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

Please check our website at: [www.waspbarcode.com](http://www.waspbarcode.com).

# GENERAL VIEW

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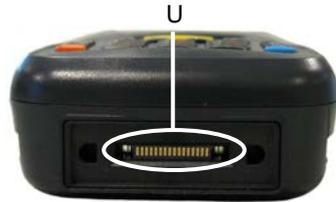
- A) Color Display
- B) ON/OFF Power Key
- C) Receiver
- D) LEDs
- E) Front Scan Key
- F) Keyboard
- G) Microphone

- H) Telescope Stylus (not included in the box, please order it separately)
- I) Laser Safety Label
- J) Loudspeaker
- K) Product Label
- L) MicroSD Card Slot (under battery)
- M) Reset Key (under battery)
- N) Guitar Pick



- O) Side Scan Key (left)
- P) Headset Connector
- Q) Micro-USB Port for supplying power and data transfer (host/slave)

- R) Side Scan Key (right)
- S) Up/down Volume Keys



T) Data Capture Window

U) Handylink™ Connector (host/slave)

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# 1 INTRODUCTION

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## 1.1 WDT60 DESCRIPTION

The WDT60 contains the most innovative technical features, providing them to the user in an ergonomic and elegant form factor. The accelerometer, the vibrator alert and the 3 LEDs help to not waste time in the configuration and usage of the product. Working with the WDT60 becomes an easy pleasure.

Great aesthetics do not put the robustness on a second level. The WDT60 has been designed for survival in the industrial environmental, outside or inside the four walls. The reliability of the product continues with the architecture chosen: an 806MHz processor working with 256 MB of RAM and 512 MB of Flash. A Micro SD card slot supporting micro SDHC storage cards provides for virtually unlimited storage space.

The WDT60 has been equipped with a 1D laser scanner.

The WDT60 wireless technology provides two radios with internal antennas: Bluetooth® EDR for fast and close data connections and 802.11 b/g/n Cisco CCX v4 certified Wi-Fi for quick wireless network access.

The WDT60 integrates the latest Windows Embedded Handheld 6.5, tailored for mobile devices.

**NOTE**

*Rechargeable battery packs are not initially fully charged. Therefore the first operation to perform is to charge them. See paragraph 2.1.*

## 1.2 INSERTING A MICROSD CARD

WDT60 supports microSD memory cards. To access the microSD card slot and insert the card, proceed as follows:

1. Turn off the WDT60.
2. Shift the battery latch to the left and remove the battery pack:



3. Open the card slot and insert the microSD card with the written part downward:



4. Shift the card to the right to lock it into the cardholder; close the card slot:



5. First insert the bottom (contacts) and then the upper side of the battery pack into the slot. Press until the battery latch clicks.



## 1.2.1 Removing the MicroSD Card

To remove the microSD card, follow the steps above to access the microSD card cage under the battery, and remove it from the microSD slot.



### CAUTION

*Follow proper ESD precautions to avoid damaging the microprocessors in the WDT60 or the microSD card itself.*

*Proper ESD precautions include, but are not limited to, working on an ESD mat and ensuring that the operator is properly grounded.*

*Do not force the card. If you feel resistance, remove the card, check the orientation, and reinsert it.*

*Do not use the microSD card slot for any other accessories.*

## 2 BATTERIES AND MAINTENANCE

---

**NOTE**

*Rechargeable backup batteries and battery packs are not initially fully charged. Therefore the initial operation to perform is to charge them. See below.*

**CAUTION**

*Annual replacement of rechargeable battery pack avoids possible risks or abnormalities and ensures maximum performance.*

### 2.1 CHARGING THE BATTERY PACK

**NOTE**

*The battery pack autonomy varies according to many factors, such as the frequency of barcode scanning, RF usage, battery life, storage, environmental conditions, etc.*

The battery icon on the Taskbar indicates when the battery pack is low.

It is possible to recharge the battery pack by connecting the power supply directly to the WDT60.

Alternatively, it is also possible to recharge the battery pack by using a Single Cradle.

Moreover recharging is possible by USB direct connection with the host computer, but with longer charging times.

**NOTE**

*Insert the micro-USB cable output plug into the micro-USB connector of the WDT60, making sure that the arrow on the plug faces upwards:*



During the charging process the LED positioned at the right side of the display glows red constantly. Once the charging process has been completed this LED glows green constantly.

If the battery pack is removed from the PDA, it can be recharged by inserting it into the rear slot of a Single Cradle.

**CAUTION**

*Do not use the WDT60 until standard batteries are charged for minimum 4 hours and extended batteries are charged for minimum 6 hours.*

**NOTE**

*Even if the storage temperature range is wider, in order to achieve the longest battery life, store the terminal and the spare batteries between 20 to 30 °C (68 to 86 °F).*

*In order to achieve the maximum charging rate the WDT60 should be charged between 0-40 °C.*

*Never charge the main device or spare batteries in a closed space where excessive heat can build up.*



**NOTE**

*The battery level may not be displayed correctly for some minutes after the disconnection if the WDT60 is disconnected from power supply before the charging cycle is completed.*



**NOTE**

*The WDT60 may get warm during charging; this is normal and does not mean a malfunction.*



**NOTE**

*Use only a USB-IF compliant USB port as a charging source.*

## 2.2 REPLACING THE BATTERY PACK

To correctly replace the battery pack, proceed as follows.

1. Turn off the WDT60.
2. Shift the battery latch to the left and remove the battery pack:



3. Install the new battery pack, first insert the bottom (contacts) and then the upper side of the battery pack into the slot. Press until the battery latch clicks.



**WARNING**

*Installing, charging and/or any other action should be done by authorized personnel and following this manual.*

*The battery pack may get hot, explode, ignite, and/or cause serious injury if exposed to abusive conditions.*

*If the battery pack is replaced with an improper type, there is risk of explosion and/or fire.*

*Do not place the battery pack in or near a fire or other heat source; do not place the battery pack in direct sunlight, or use or store the battery pack inside unventilated areas in hot weather; do not place the battery pack in microwave ovens, in clothes dryers, in high pressure containers, on induction cook surfaces or similar devices. Doing so may cause the battery pack to generate heat, explode or ignite. Using the battery pack in this manner may also result in a loss of performance and a shortened life expectancy.*

*Use only a Wasp approved power supply. The use of an alternative power supply will void the product warranty, may cause product damage and may cause heat, an explosion, or fire.*

*The area in which the units are charged should be clear of debris and combustible materials or chemicals.*

*Do not use the battery pack of this terminal to power devices other than this PDA.*

*Immediately discontinue use of the battery pack if, while using, charging or storing the battery pack, the battery pack emits an unusual smell, feels hot, changes colour or shape, or appears abnormal in any other way.*

*Do not short-circuit the battery pack contacts connecting the positive terminal and negative terminal. This might happen, for example, when you carry a spare battery pack in your pocket or purse; accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the contacts of the battery pack (these look like metal strips on the battery pack). Short-circuiting the terminals may damage the battery pack or the connecting object.*

*Do not apply voltages to the battery pack contacts.*

*Do not pierce the battery pack with nails, strike it with a hammer, step on it or otherwise subject it to strong impacts, pressures, or shocks.*

**WARNING**

*Do not disassemble or modify (i.e. bend, crush or deform) the battery pack. The battery pack contains safety and protection devices, which, if damaged, may cause the battery pack to generate heat, explode or ignite.*

*In case of leakage of liquid from the battery, avoid contact with liquid the skin or eyes. If the contact occurs, immediately wash the affected area with water and consult a doctor.*

*Do not solder directly onto the battery pack.*

*Do not expose the battery pack to liquids.*

*Avoid any knocks or excessive vibrations. If the device or the battery is dropped, especially on a hard surface, you should take it to the nearest Authorised Repair Centre for inspection before continuing to use it.*

*Do not replace the battery pack when the device is turned on.*

*Do not remove or damage the battery pack's label.*

*Do not use the battery pack if it is damaged in any part.*

*Battery pack usage by children should be supervised.*

*Collect and recycle waste batteries separately from the device in compliance with European Directive 2006/66/EC, 2011/65, 2002/96/EC and subsequent modifications, with US and China regulatory laws and regulations about the environment.*

**NOTE**

*In order to guarantee an adequate operating autonomy, when replacing the battery pack the PDA checks the battery energy level. If the battery is not sufficiently charged, the WDT60 does not turn on (when pressing the ON/OFF key).*

*In this case, either substitute the battery pack with a charged one (sufficiently charged) or insert the WDT60 into a powered cradle or plug it into the direct power supply.*

**NOTE**

*To maximize battery life, turn off radios when they are not needed.*

## **2.3 CLEANING THE PDA**

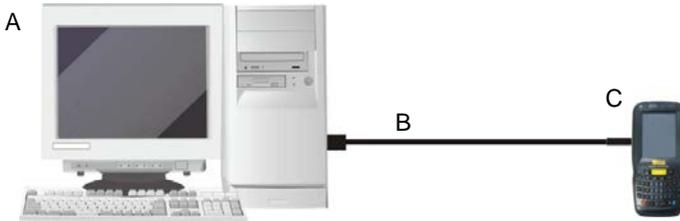
Periodically clean the WDT60 with a slightly dampened cloth.

Do not use alcohol, corrosive products or solvents.

## 3 CONNECTIONS

### 3.1 USB CONNECTION

You can use a standard micro USB cable or a HandyLink™ cable to directly connect the WDT60 to a host computer to transfer data through the USB interface.



Key:

A Host computer

C WDT60

B Standard Micro USB cable/  
HandyLink™ USB Client Cable



**NOTE**

*Connection through the cable complies to the USB 1.1 standard.*



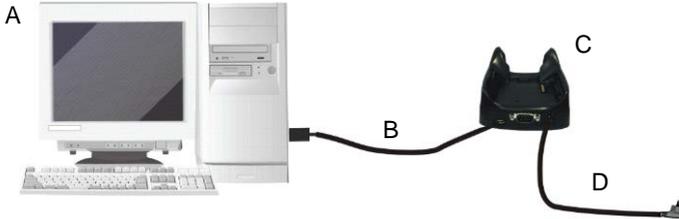
**NOTE**

*Insert the micro-USB cable output plug into the micro-USB connector of the WDT60, making sure that the arrow on the plug faces upwards:*



The Single Dock can be connected to the Host by means of a Micro-B USB cord.

Once the host computer has been turned on, insert the WDT60 PDA into the cradle.



Key:

A Host computer

C WDT60 Single Slot Dock

B Micro USB Client Cable

D Power Adapter



**NOTE**

*Connection through the cradle complies to USB 1.1 standard.*



**NOTE**

*The actual data transfer speed can be appreciably lower than the maximum theoretical speed.*

### 3.2 CONNECTION TO USB PERIPHERALS

To connect the WDT60 to a USB keyboard or a memory device, connect the terminal to a micro USB host cable or to a HandyLink™ micro USB host cable (together with a standard A to micro A USB cable).

For all these devices maximum current draw must be less than 100mA.



Key:

- |   |                             |   |  |
|---|-----------------------------|---|--|
| A | Keyboard with USB interface | C | Micro USB Host Cable/ HandyLink™<br>Micro USB Host Cable |
| B | WDT60                       | D | Standard A to Micro A USB Cable                          |



Key:

- |   |   |   |  |
|---|---|---|--|
| A | USB hard drive/ external<br>memory source | C | Micro USB Host Cable/ HandyLink™<br>Micro USB Host Cable |
| B | WDT60                                     | D | Standard A to Micro A USB Cable                          |

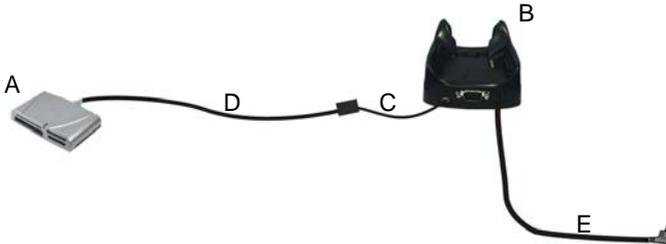


**NOTE**

*Insert the micro-USB cable output plug into the micro-USB connector of the WDT60, making sure that the arrow on the plug faces upwards:*



Connect the Single Slot Dock to the peripheral by means of a Micro-A USB cord, or use a Micro-A to Std-A receptacle USB adapter (together with a standard USB cable if needed).



- |   |                         |   |                                 |
|---|-------------------------|---|---------------------------------|
| A | USB Peripheral (memory) | D | Standard A to Micro A USB Cable |
| B | WDT60 Single Slot Dock  | E | Power Adapter                   |
| C | Micro USB Host Cable    |   |                                 |



**NOTE**

*WDT60 works with most of the mentioned USB peripherals. Wasp cannot guarantee the interoperability of WDT60 with all devices on the market.*



**NOTE**

*Connection is compliant to USB 1.1 standard.*



**NOTE**

*The actual data transfer speed can be appreciably lower than the maximum theoretical speed.*

### 3.3 RS232 CONNECTION

You can use a HandyLink™ micro RS232 client cable to directly connect the WDT60 to a host computer to transfer data through the RS232 interface



Key:

- A Host computer
- B HandyLink™ Micro RS232 Client Cable
- C WDT60



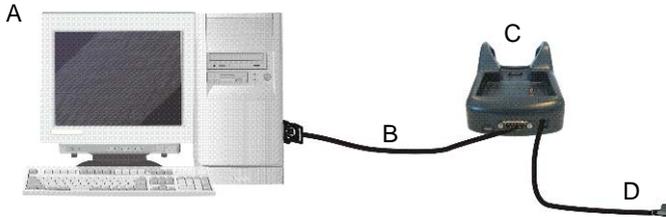
**NOTE**

*Insert the HandyLink™ cable output plug into the HandyLink™ connector of the WDT60, making sure that both the arrows on the connector and the WDT60 face upwards:*



The Single Slot Dock can be connected to the Host by means of a standard null modem cable.

Once the Host computer has been turned on, insert the WDT60 PDA into the cradle.



Key:

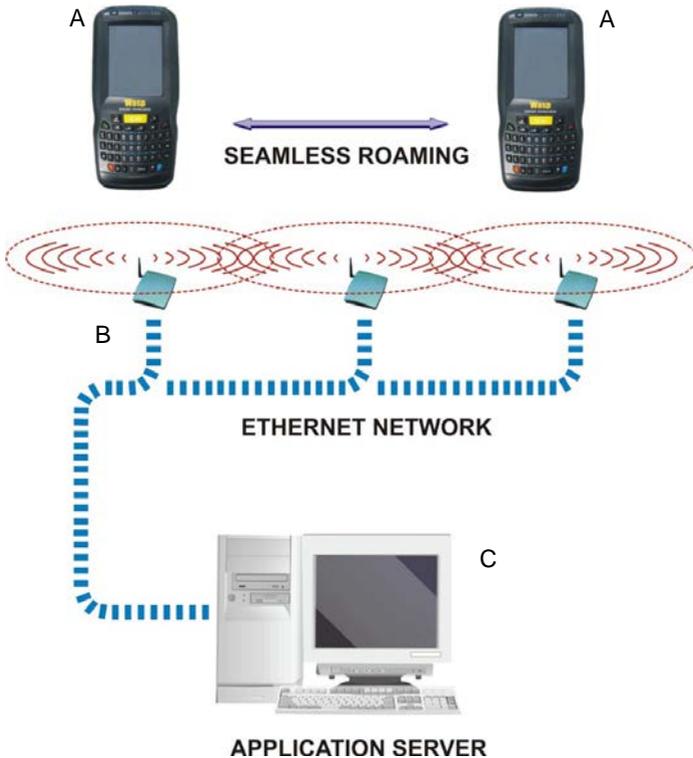
- |   |                        |   |                        |
|---|------------------------|---|------------------------|
| A | Host Computer          | C | WDT60 Single Slot Dock |
| B | RS232 Null Modem Cable | D | Power Adapter          |

### 3.4 WLAN CONNECTION

WDT60 802.11 b/g/n radio models can communicate with the host using the on-board Wi-Fi radio and an Access Point connected to the host computer network.

For models using the 802.11 b/g/n radio, you can find information about the applet for radio configuration: <http://www.summitdata.com/SCU.htm>.

To launch this utility you can tap the specific icon if it is visible on the taskbar or you can select the menu item: Start > Summit and tap the 'SCU' icon.



Key:

- A) WDT60
- B) Access point
- C) Host – Application Server

**NOTE**

*802.11 b/g/n radio module is on by default, in order to avoid wasting energy, you can switch it off using SCU.*

**NOTE**

*Suspending the terminal powers off the 802.11 b/g/n radio and drops the radio connection. When the terminal resumes, depending on the radio power mode and security protocol selected, it may take up to 30 seconds for the 802.11 b/g/n radio driver to re-associate the radio to the network.*

**NOTE**

*Area coverage and radio performance may vary, due to environmental conditions, access point types or interference caused by other devices (microwave ovens, radio transmitters, etc.).*

**NOTE**

*In case of heavy usage the WDT60 may get warm; this is normal and does not mean a malfunction.*

### 3.5 WPAN CONNECTIONS

WDT60 Bluetooth® models can communicate with a Bluetooth® device, such as a printer, within a range of 10 m, using the on-board Bluetooth® module.



Key:

A) WDT60

B) Bluetooth® printer



**NOTE**

*In order to extend battery life, the Bluetooth® module is off by default. If you need to have Bluetooth® working, the module must be powered on using the Wireless Communications applet (see par. 4.6.6), and perform the Discovery procedure (see par. 4.7.2).*



**NOTE**

*Suspending the terminal powers off the Bluetooth® radio and drops the piconet (Bluetooth® connection). When the terminal resumes, it takes approximately 10 seconds for the Bluetooth® radio driver to re-initialize the radio.*



**NOTE**

*Area coverage and Bluetooth® radio performance may vary, due to environmental conditions or interference caused by other devices (microwave ovens, radio transmitters, etc.).*

**NOTE**

*Calls can be made or received using the WDT60 as a phone handset, using the WDT60 headset or using a Bluetooth® headset.*

**NOTE**

*During a call, you can set the speaker volume by pressing the volume keys on the side of the WDT60.*

**NOTE**

*In case of heavy usage the WDT60 may get warm; this is normal and does not mean a malfunction.*

### 3.6 WIRELESS AND RADIO FREQUENCIES WARNINGS



**WARNING**

*Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications or attachments could damage the product and may violate laws and regulations. The antennas inside the WDT60 are not user-accessible and cannot be replaced by end users. Send any faulty equipment to Wasp Barcode Technologies for repair.*



**WARNING**

*Most modern electronic equipment is shielded from RF signals. However, certain electronic equipment may not be shielded against the RF signals generated by WDT60.*



**WARNING**

*Wasp Barcode Technologies recommends persons with pacemakers or other medical devices to follow the same recommendations provided by Health Industry Manufacturers Associations for mobile phones.*

*Persons with pacemakers:*

- *Should ALWAYS keep this device more than twenty five (25) cm from their pacemaker and/or any other medical device;*
- *Should not carry this device in a breast pocket;*
- *Should keep the device at the opposite side of the pacemaker and/or any other medical device;*
- *Should turn this device OFF or move it immediately AWAY if there is any reason to suspect that interference is taking place.*
- *Should ALWAYS read pacemaker or any other medical device guides or should consult the manufacturer of the medical device to determine if it is adequately shielded from external RF energy.*

*In case of doubt concerning the use of wireless devices with an implanted medical device, contact your doctor.*



**WARNING**

*Turn this device OFF in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may use equipment that could be sensitive to external RF energy.*

**WARNING**

*RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles. Check with the manufacturer or its representative regarding your vehicle. You should also consult the manufacturer of any equipment that has been added to your vehicle.*

**WARNING**

*An air bag inflates with great force. DO NOT place objects, including either installed or portable wireless equipment, in the area over the air bag or in the air bag deployment area. If a vehicle's wireless equipment is improperly installed and the air bag inflates, serious injury could result.*

**WARNING**

*Turn off the device when in any area with a potentially explosive atmosphere. Observe restrictions and follow closely any laws, regulations, warnings and best practices on the use of radio equipment near fuel storage areas or fuel distribution areas, chemical plants or where any operation involves use of explosive materials.*

*Do not store or carry flammable liquids, explosive gases or materials with the device or its parts or accessories.*

*Areas with a potentially explosive atmosphere are often, but not always, clearly marked or shown.*

*Sparks in such areas could cause an explosion or fire, resulting in injury or even death.*

## 4 USE AND FUNCTIONING

The use of the WDT60 depends on the application software loaded. However there are several parameters that can be set and utilities that can be used to perform some basic functions such as data capture, communications, file management, etc

### 4.1 STARTUP

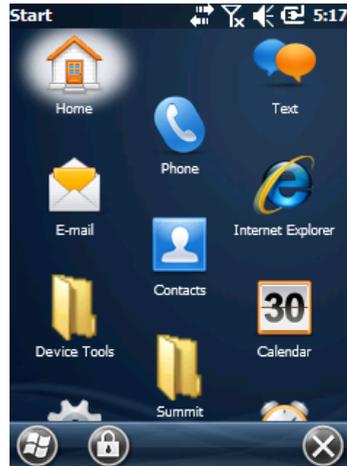
The WDT60 turns on when the battery pack or the external supply is inserted and the ON/OFF Power button is pressed.

After the battery pack is installed, use the [ON/OFF] key to turn the PDA on and off.

As soon as the PDA is on, the Windows Embedded Handheld 6.5 desktop configuration will appear on the screen. Wait a few seconds before starting any activity so that the PDA completes its startup procedure.



Today Screen



Start Menu

Use the stylus (par. 4.1.1) as suggested to select icons and options.

The PDA goes into power-off (low power with display and keyboard backlight off) when it is not used for more than a programmable timeout, which is defined in the POWER applet of the Control Panel. In this mode it can be awakened (resuming operation) by the [ON/OFF] key.

**NOTE**

*The PDA can also be awakened or turned off by applications.*

### 4.1.1 Using the Stylus

The stylus selects items and enters information. The stylus functions like a mouse.

<b>Tap:</b>	Touch the screen once with the stylus to open items and select options.
<b>Drag:</b>	Hold the stylus on the screen and drag across the screen to select text and images. Drag in a list to select multiple items.
<b>Tap-and-hold:</b>	Tap and hold the stylus on an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

To recalibrate the touch screen use the Screen applet (see par. 4.6.7).

**CAUTION**

*Use only original Wasp styluses supplied with the product itself.*

*In harsh applications, use of screen protectors should be taken into consideration, in order to extend the touch screen operating life.*

*To prevent damage to the screen, do not use sharp objects or any tool other than the Wasp provided stylus.*

*Do not apply too much pressure when touching the screen.*

*For applications where an intensive use of the touch screen is foreseen, please consider that touch screen components are subject to progressive wear.*

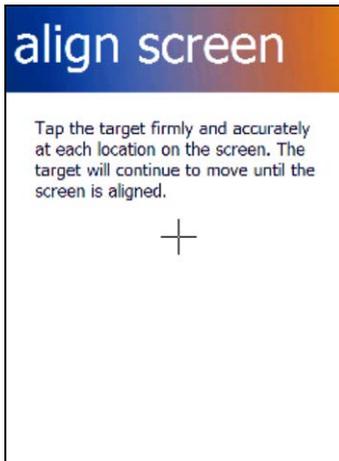
## 4.2 WINDOWS EMBEDDED HANDHELD WELCOME WIZARD

In Windows Embedded Handheld, at the very first WDT60 startup, following a clean boot or following a Registry restore to default values, the PDA startup (see par. 4.1) is preceded by the Welcome Wizard.



**Welcome Wizard Screen**

The Welcome Wizard allows the user to calibrate the touch screen (see par. 4.6.7).



**Touch Screen Calibration Screen**

### 4.3 DATA CAPTURE

To capture data first of all tap Start > Settings > System > Decoding:

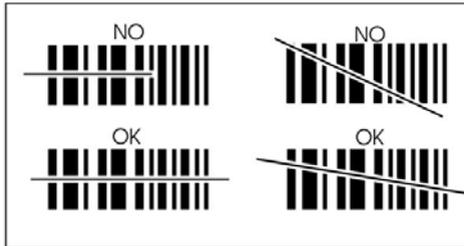
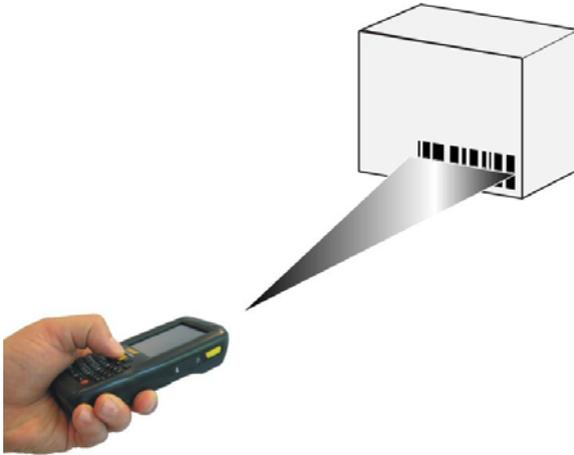


To configure and enable data capture parameters refer to par. 4.6.1.

### 4.3.1 Laser Data Capture

To scan barcodes, point the WDT60 laser model onto the code from a distance within the reading range while pressing the SCAN key.

The lighted band emitted by the laser must completely cross the barcode as shown in the figure below.



If the scan has taken place correctly:

- the Good Read LED glows steadily Green for a configurable time;
- if enabled, the Good Read Beep plays.

**NOTE**

*Remove the protective film cover over the Laser Output Window before use, if present.*

## 4.4 DESCRIPTION OF THE KEYS

The WDT60 comes with two different keyboards, an alphanumeric keyboard (QWERTY), having 46 keys, and a numeric keyboard, having a total of 27 keys.

### 4.4.1 Alphanumeric Keyboard



### 4.4.2 Numeric Keyboard



## Main Keys Function

### KEY



SCAN

### FUNCTION

Pressing the SCAN key starts barcode data capture.



Pressing cursor keys lets you move forwards, backwards, upwards or downwards within text fields, scroll through a Menu list or browse among folder files.



Orange modifier (toggle key): when pressed before a standard key, it enables the character or function printed in yellow above the key.



Blue modifier (one shot key): when pressed before a standard key, it enables the character or function printed in blue above the key



It powers the WDT60 ON or OFF. It is placed on the upper left side of the terminal.



In blue mode, the Telephone End key generates a VK\_ESCAPE virtual key code for applications that use the Esc key to cancel (e.g. touch screen calibration application).

### 4.4.3 Resetting the WDT60

There are several reset methods for the WDT60.

A warm boot terminates an unresponsive application and clears the working RAM, but preserves the file system. Registry is restored from persistent memory if available or returned to factory default.

A cold boot forces all applications to close, completely reinitializing the system. It clears the working RAM, but the file system is preserved. Registry is restored from persistent memory.

A clean boot restores the WDT60 to a clean configuration: both the Registry and the file system return to a clean status that conforms to factory default.

#### Warm Boot

To perform a warm boot, press and hold the following keys:



#### Cold Boot

To perform a cold boot, do the following steps:

1. Turn off the WDT60 by pressing the on-off key.
2. Slide the battery latch leftward and remove the battery pack.
3. Press the reset button.
4. Insert the battery pack.
5. Turn on the WDT60 by pressing the on-off key.

## Clean Boot

To perform a clean boot, do the following steps:

1. Perform a Warm Boot (see Warm Boot)
2. Before the splash screen appears, press and hold down the 0 and Telephone End keys simultaneously:



A dialog box will appear asking for confirmation. Press the Enter Key to confirm. If you wish to cancel the clean boot, press Esc by pressing Blue + Telephone End.

	<b>Warm Boot</b>	<b>Cold Boot</b>	<b>Clean Boot</b>
<b>Registry</b>	Restored from flash	Restored from flash	Clean configuration (no user config)
<b>File System</b>	Preserved	Preserved	Clean Installation (no user files)

## 4.5 STATUS INDICATORS

### 4.5.1 LED Status

The WDT60 provides three different LEDs signaling the PDA status.

LED	STATUS	
<b>Good Read</b> (right side)	Red	Scanning LED is ON from the time the user hits the scan button or side trigger buttons until the bar code is decoded.
	Green	Scanning LED is ON, showing a good decode.
<b>Charging Status</b> (left side)	Green	It is constant once the charging process has been completed (full charge).
	Red	It is constant while charging.
	Red blinking	In case of charge fault it is constant for two hours, then it starts blinking.
	Amber	It is constant when charging a severely discharged main battery until the battery has sufficient charge for its controller to begin communicating with the WDT60's power system. Once the battery is communicating, the charge LED will switch to glow red and continue charging normally.
<b>Keyboard Status</b> (center)	Off	Keyboard in primary.
	Yellow solid	Yellow alternate key mode.
	Blue solid	Blue alternate key mode
	Sky blue solid	CapsLock enabled.

## 4.5.2 Taskbar

The Taskbar provides information about the time, the battery level, the keyboard function, and the decoding status.



Windows Embedded Handheld Taskbar

ICONS	DESCRIPTION
	Zooms the screen.
	Opens the Connections balloon, which includes hypertext links to the Wireless Manager and the Connections applet. (see par. 4.6.6).
	Displays the battery status.
	Opens the Volume balloon, which allows the user to control the main volume, in-call volume, to mute all volumes, and to control the vibrator.
	Opens Clock & Alarms control panel applet. It allows the user to set date, time and alarms.

### 4.6 SETTINGS

From the Start menu, tap Settings. The settings are organized hierarchically.



Control panel applets are displayed as icons; each icon corresponds to one applet:



**Windows Embedded Handheld Control Panel**

## 4.6.1 Data Capture Configuration

You can configure the WDT60's decoding options by tapping Start -> Settings -> System -> Decoding:



There are two sections in the Decoding control panel, each containing additional pages. There are seven General Configuration pages and multiple Barcode symbology pages.

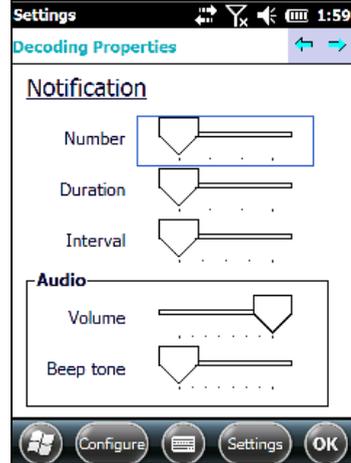
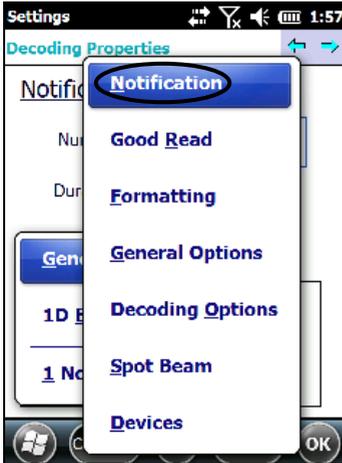
### DECODING CONFIGURATION PAGES

Select the desired configuration from the options shown in the figure below, and the other Decoding Properties figures on the following pages.

Select General or 1D Bar Code, then use the menu or tap the left and right arrow keys to navigate the different pages of the Decoding utility. The menu options will change to reflect the items most recently selected.

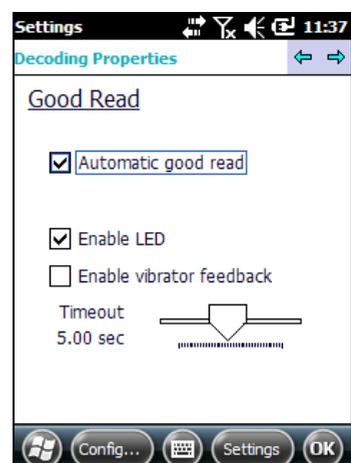
## Notification

From the Decoding menu, tap Configure > General > Notification. Use it to set volume, tone, duration, and number of various types of beeps.



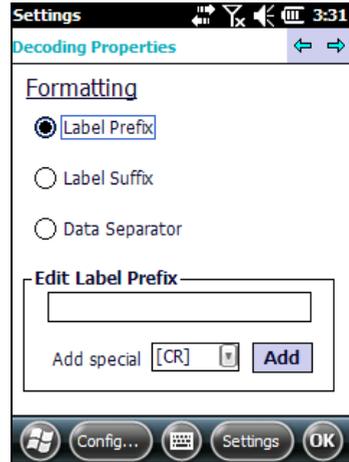
## Good Read

From the Decoding Properties applet, tap Configure > General > Good Read. Use it to enable Good Read indications, the use of a vibrator feedback and to set the decoding timeout for decoding labels.



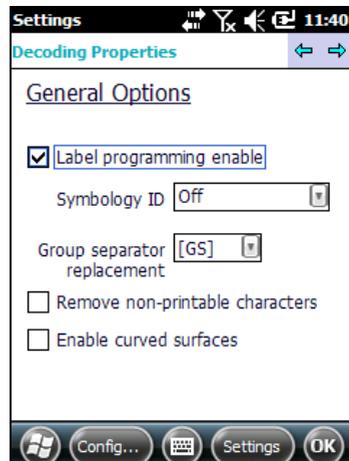
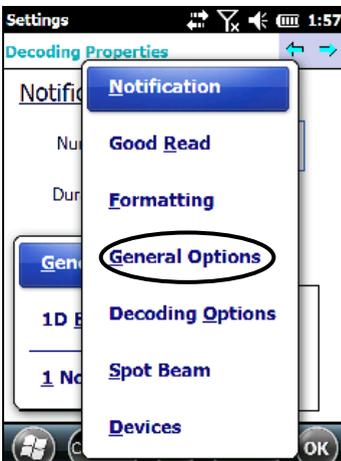
## Formatting

From the Decoding Properties page, tap Configure > General > Formatting. Use it to configure prefix, suffix and data separator character strings.



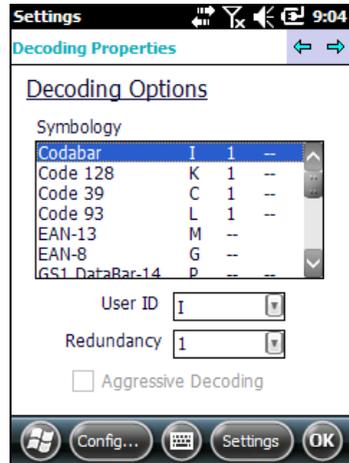
## General Options

From the Decoding menu, tap Configure > General > General Options. Select from Label Programming Enable, Symbology IDs, Group Separator Replacement, Remove non-printable characters and Enable curved surfaces.



## Decoding Options

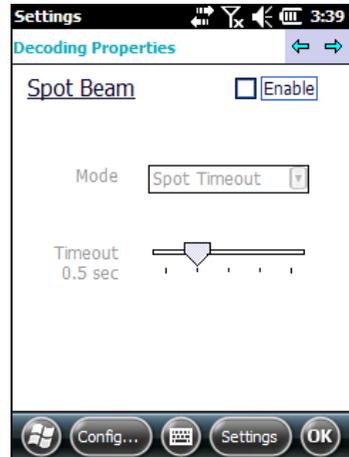
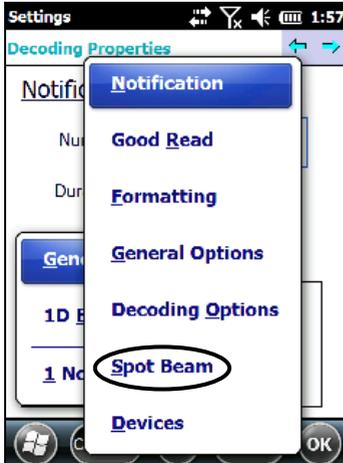
From the Decoding Properties applet, tap Configure > General > Decoding Options. Use it to configure the User ID for symbologies, Redundancy and Aggressive Decoding (if supported by the decoding module). Select a symbology to view or change the available properties settings.



## Spot Beam

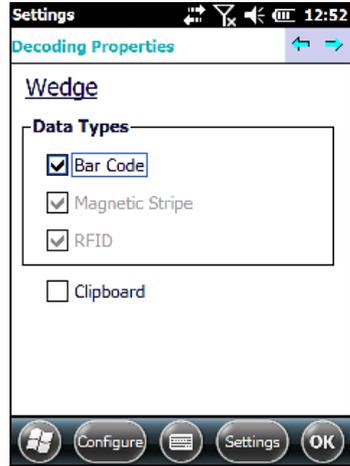
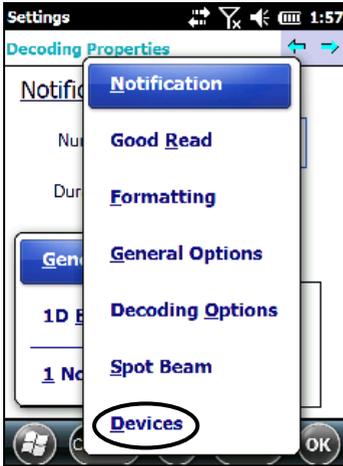
From the Decoding Properties applet, tap Configure > General > Spot Beam. It allows enabling and configuration of Spot Beam and triggering modes.

It is only available on devices equipped with laser and advanced long range laser decoding modules that support the Spot Beam Feature.



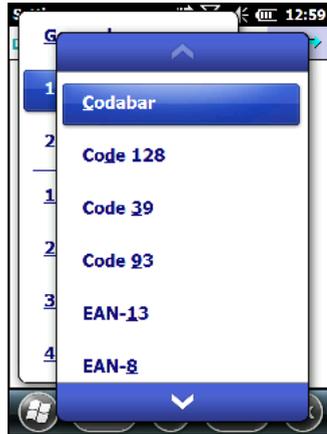
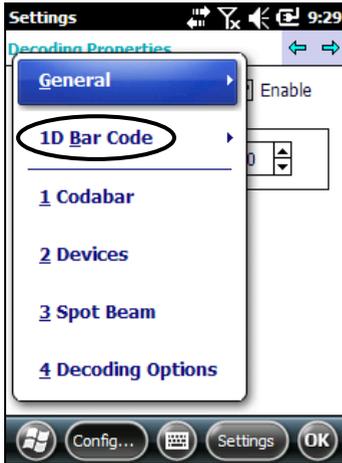
## Devices

From the Decoding Properties applet, tap Configure > General > Devices. Use it to enable or disable the keyboard wedge for Barcode scanner. Also use it to enable or disable the Clipboard mode for passing decoding data to a receiving application. When the Clipboard checkbox is checked, the Windows clipboard is used to pass label data, which can be much faster than the keyboard wedge at typing label data from a large label one character at a time. The disadvantage is that label data will replace any data already in the WDT60's clipboard.

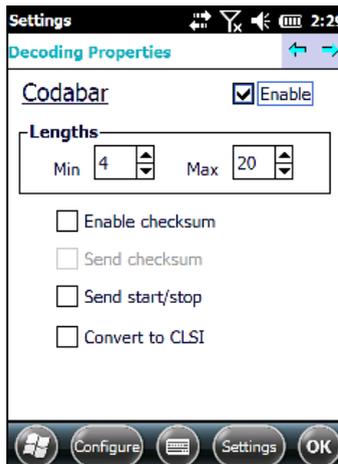


## 1D Barcode Symbology Pages

Use the drop-down menus from Configure > 1D Barcode, or tap the left and right arrow keys to navigate the different pages of the barcode symbology pages.



Each barcode symbology opens to its own page, as shown in the figure below. Refer to the sample symbology control panels for examples of the types of fields and options you can modify.



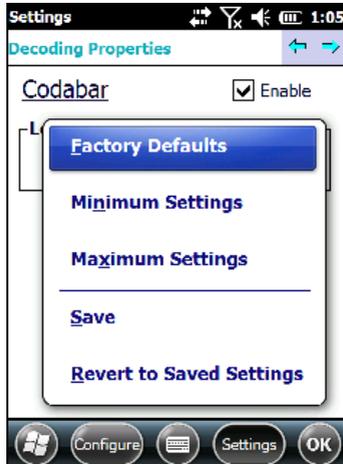
Codabar: Select Enable, Min/Max Lengths, Enable Checksum, Send Checksum, Send Start/Stop and Convert to CLSI.

## Decoding Settings

Select from the Decoding Properties Settings menu to restore previous configurations and/or other available default settings. Choose from:

- Factory Defaults
- Minimum Settings
- Maximum Settings
- Save (New Settings)
- Revert to Saved Settings

The settings are saved when you tap OK.



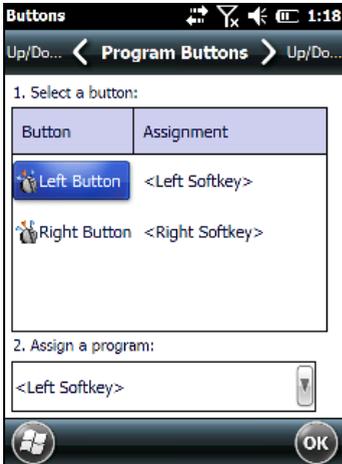
The settings are saved when you tap 'Yes'.

When open, Decoding Properties acts as a simple barcode test tool that provides the Data decoded and the Data Type of the barcode scanned.

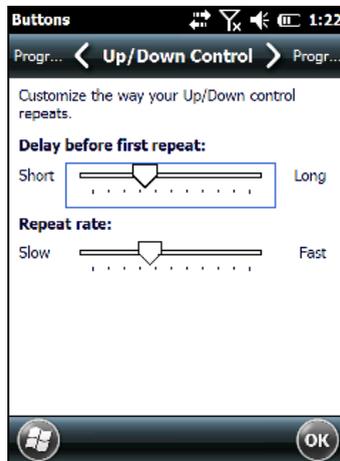
## 4.6.2 Buttons

From the Start menu, tap Settings > Personal > Buttons.

On the Program Buttons tab, customize the program hardware buttons to launch your most used applications. Under 'Select a button', tap the button you want to assign a program to, and then select a program from 'Assign a program'.



To configure the way the up/down control repeats, use the Up/Down Control applet (Start > Settings > Personal > Buttons and then tap Up/Down Control).



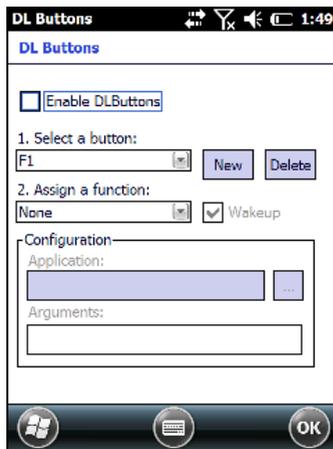
### 4.6.3 Quick Buttons

In Windows Embedded Handheld devices, <F1>-<F10> buttons (excluding F5) are assigned by Windows to default applications. F5 is commonly used by applications to refresh the few, but is not explicitly controlled by default.

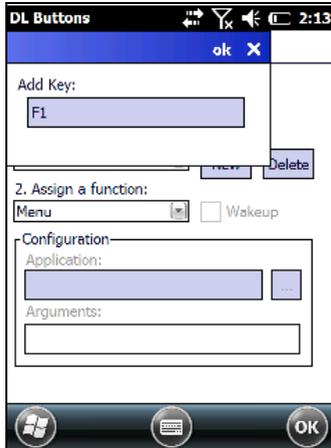
To disable an assigned function, tap Start > Settings > System > Quick Buttons to display the Quick Buttons window:



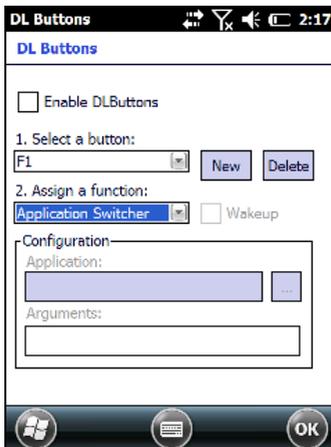
Select the button you want to disable. Select the function 'None' and the tap OK.



To add the button, tap 'New' and then press the button you wish to add:



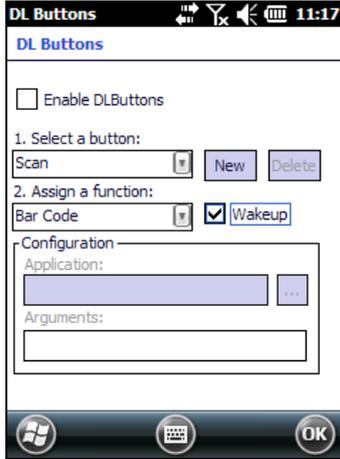
To assign a new function to the button, select the desired function and then tap 'OK':



To restore the old settings, do a clean boot.

### 4.6.4 Triggers

Triggers are special customizable buttons that are mapped by default by DL Buttons. Also, they can be set as wakeup buttons:

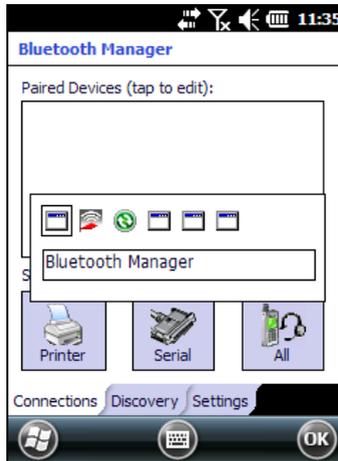


TRIGGERS	DEFAULT CONFIGURATION	
	Assigned Function	Wake-up
Scan	Bar Code	Disabled
Right Side Scan	Bar Code	Disabled
Left Side Scan	Bar Code	Disabled

## 4.6.5 Application Switcher

The application switcher provides the same functionality as the standard Windows® Alt+Tab function. This allows the user to switch between the various open applications.

The application switcher can be activated via an assigned shortcut key specified in the “DL Buttons” tab (refer to par. 4.6.3). When the assigned button is pressed, the dialog shown below will be displayed:



**NOTE**

The **<Esc>** key can be used to close the **Application Switcher**. The **<Esc>** key is activated by pressing  + .

Press the assigned button to open the application switcher. Press the assigned button to cycle through the running applications when the dialog is open. Press **<Enter>** to switch to the selected application or **<Esc>** to close the application switcher.

## 4.6.6 Wireless Communications

The Wireless Manager application is a sort of 'Control Panel' for wireless connections. From here it is possible to turn on or off Bluetooth® and radio modules.

Open the Wireless Manager by tapping Start > Settings > Connections > Wireless Manager, or by tapping the connectivity icon on the taskbar and then tapping the "Wireless Manager" hypertext link (see par.4.5.2). The following window will appear:



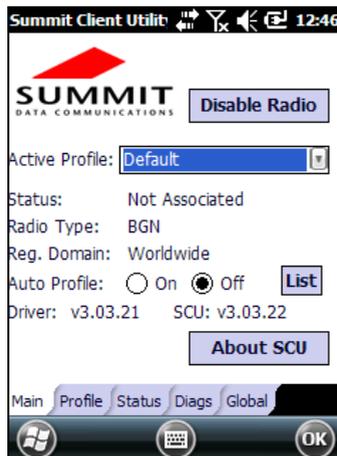
Wireless Manager

## Summit Client Utility (SCU)

Wireless networking has a customized control, Summit Client Utility (SCU). From the Start menu, tap: Summit > SCU:

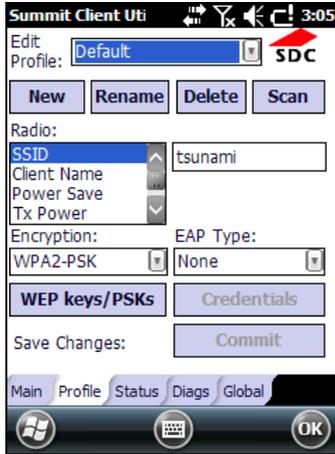


The SCU will open to the “Main” tab:



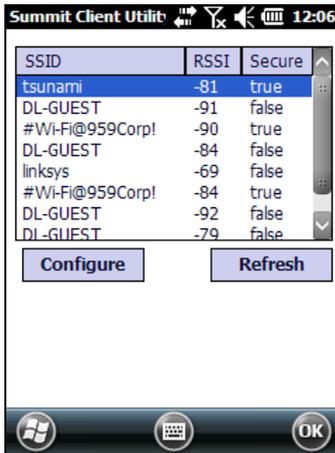
**Summit Client Utility**

1. To create a new profile, tap the "Profile" tab:



Information about the wireless network can be entered directly in the profile tab or by pressing "Scan" when the desired network SSID is in range.

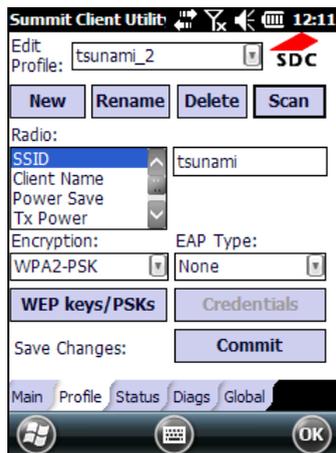
2. At the "Scan" screen, select the desired SSID:



3. Tap the "Configure" button

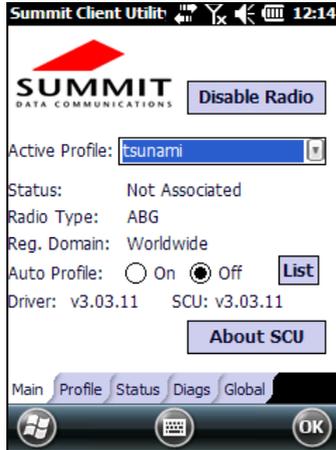


4. Follow the on-screen instructions to configure security parameters for your network. For more detailed settings specific to your installation please contact your wireless network administrator.
5. When finished, tap "Commit" to save your settings.

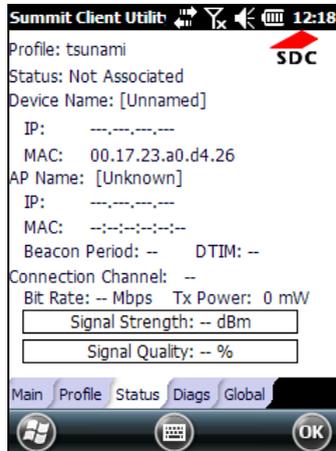


Return to the "Main" tab, if you have not previously selected "Commit" you will be prompted to save your changes.

At the “Main” tab select the profile you just created. If you used the “scan” button the desired profile will have the same name as the SSID.



Use the “Status” tab to check connectivity to the network.



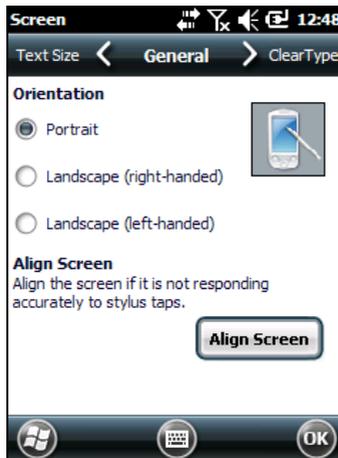
More detailed information about the applet for radio configuration can be found at [http://www.summitdata.com/Documents/summit\\_users\\_guide\\_3\\_03.html](http://www.summitdata.com/Documents/summit_users_guide_3_03.html).

## 4.6.7 Stylus Calibration

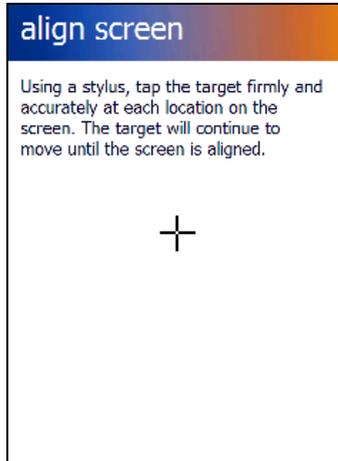
You might need to recalibrate the touch screen (i.e. when you attempt to select one item with the stylus, another item is erroneously selected).

To recalibrate the touch screen, complete the following steps:

1. Select **Start > Settings > System > Screen** to open the **Screen Settings**.
2. Tap **Align Screen** to open the Calibration screen shown in the figure below:



3. Carefully press and briefly hold stylus on the center of the target. Repeat as the target moves around the screen.
4. New calibration settings are persistently saved in Registry.



## Startup Stylus Calibration

When clean booting the terminal, a Welcome Wizard (with Stylus Calibration) comes up if valid calibration settings are not available.

## 4.6.8 Audio Settings

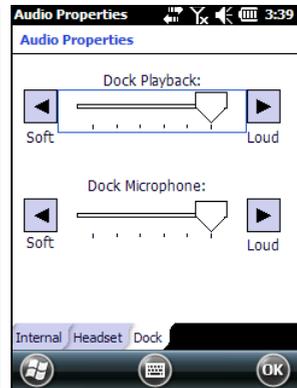
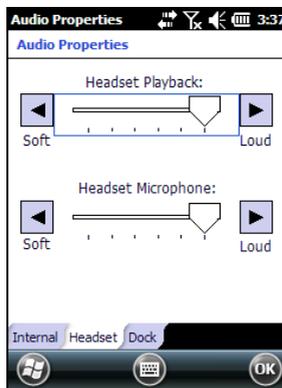
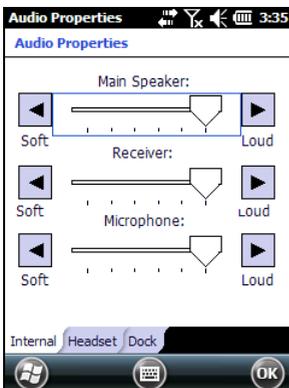
There are two applets that control volume: Audio and Volume & Sounds.

### Audio

From the Start Menu, tap Settings > System > Audio:



The audio control panel can be used to independently set the playback or recording volume for different types of audio inputs and outputs, such as a headset, powered mobile dock, or the internal speakers and microphone.



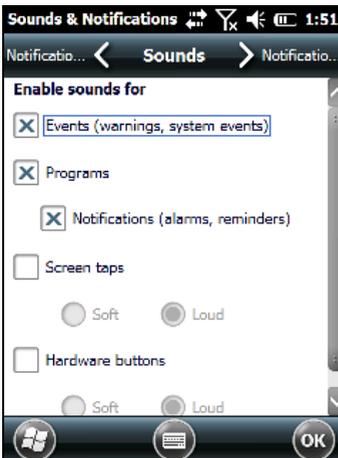
Audio Windows

## Sounds & Notifications

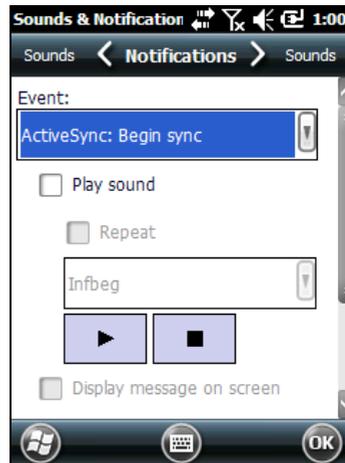
From the Start Menu, tap Settings > Sounds & Notifications:



The Sounds & Notifications applet configures audio features of all speakers and headphones:



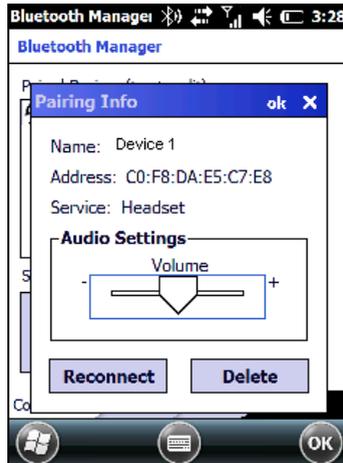
Sounds Tab



Notifications Tab

You can also set the volume of a paired Bluetooth® headset. Tap:

Start > Settings > System > Bluetooth Manager, select the Connections tab and then select the headset pairing in the Paired Devices list. The following window will appear:



## 4.7 CONNECTING TO OTHER COMPUTERS

To connect the WDT60 to another device (i.e. Host PC) which run Windows, several programs are available. These programs require specific electrical connections in order to function properly.

### 4.7.1 Windows Mobile® Device Center

The desktop application Windows Mobile® Device Center gives you the ability to synchronize information between a desktop computer and your WDT60. Synchronization compares the data on the WDT60 with that on the desktop computer and updates both with the most recent information.

Windows Mobile® Device Center can be downloaded from Microsoft website [www.microsoft.com](http://www.microsoft.com). It is only compatible with Windows Vista and Windows 7; if you run Windows XP or earlier, you have to download Microsoft ActiveSync.

You can establish a connection to your WDT60 through the following interfaces:

- USB either directly or through the Single Dock
- RS232 either directly or through the Single Dock
- Bluetooth® (see par. 4.7.2)

To establish a partnership between the WDT60 and a host PC, start Windows Mobile® Device Center and follow the steps below:

1. Connect the WDT60 to the host PC. Windows Mobile® Device Center configures itself and then opens.
2. On the license agreement screen, click Accept.
3. On the Windows Mobile® Device Center's Home screen, click Set up your device.
4. Select the information types that you want to synchronize, then click Next.
5. Enter a device name and click Set Up.

When you finish the setup wizard, Windows Mobile® Device Center synchronizes the PDA automatically. Microsoft® Office Outlook® emails and other information will appear on your device after synchronization.

## 4.7.2 Bluetooth® Manager Device Setup

### Using the WDT60 to connect to another device

To create a Bluetooth® pairing between your device and another device that has Bluetooth® capabilities, ensure that the two devices are turned on, discoverable, and within close range.

1. Open the Bluetooth® control panel by tapping Start > Settings > System > Bluetooth Manager:



2. Search for available Bluetooth® devices by tapping the button for the type of device you want (Printer, Serial or All) or tap the Discovery tab and then tap the Discover button to skip this step. The WDT60 will search for Bluetooth® devices within range.

**NOTE**

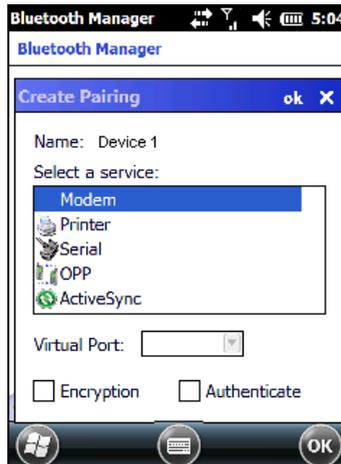
*If you attempt to set up a connection when the Bluetooth® radio is disabled, you will receive a message reminding you that the radio is turned off, and asking if you want to turn it on. Tap Yes if you need to enable the Bluetooth® radio.*

- Once searching is complete, Bluetooth® devices will be displayed in the Discovery tab. You can set up a connection to a device in the list by selecting the device and then tapping the 'Connect' button:



To create a pairing:

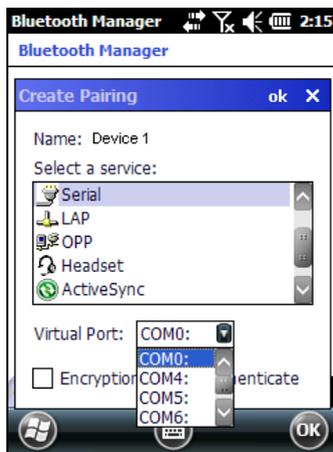
- Select a service:



- Configure any encryption, authentication, or virtual port options required by the service selected.

Icon	Service
	Dialup Networking
	Printer
	Object Push (OPP) or Object Exchange (OBEX)
	ActiveSync
	Human Interface Device (HID) - Keyboard
	Serial
	Personal Area Network (PAN)
	Modem
	Headset
	Handsfree

Virtual Port allows you to specify the incoming port, which is used to communicate serially with an incoming device just as if it were a physical COM port. This option is available only if you have selected a Printer or Serial service.



You can also select Encrypt or Authenticate from the Bluetooth® control panel to apply or modify those settings.

1. To require Authentication, check the checkbox, then tap OK.



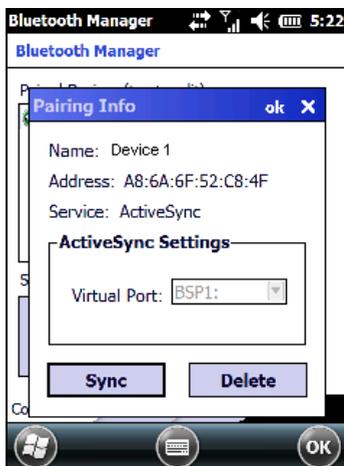
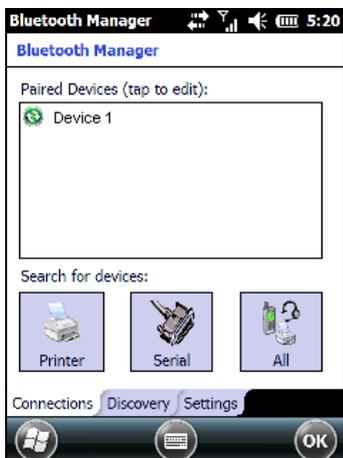
2. If required, the Authentication Request dialog will then open, requesting that you enter a PIN. Use the Input Panel or the keyboard to type the PIN.



3. Tap OK to complete.

The dialog will also appear when an Authentication request is received from another device.

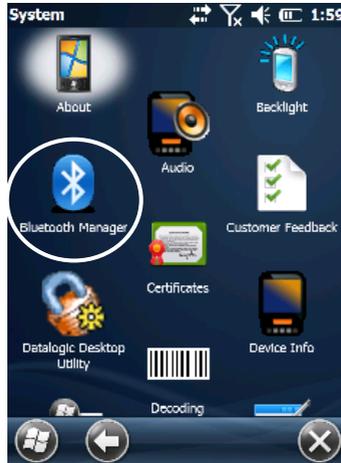
Once you have set up a Pairing, you can view the settings by double-tapping its name in the Connections tab. Tap the arrow to change the Virtual Port, or Delete to remove the device pairing. Tap Sync to initiate a Sync (available only if the service is an ActiveSync connection).



## Using your device to connect to the WDT60

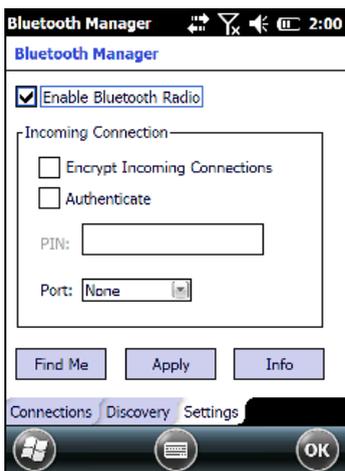
Before turning on Bluetooth® ensure that the two devices are within close range and that both Bluetooth-enabled devices are discoverable.

1. Tap Start > Settings > System > Bluetooth Manager to open the Bluetooth® control panel.

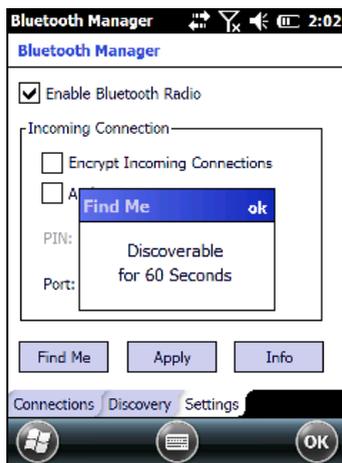


2. Tap Settings. The Settings tab allows you to enable or disable the Bluetooth® radio and specify settings for Incoming Connections.

3. Select or clear the “Enable Bluetooth Radio” check box. If you’re going to be attaching a serial device (i.e. a scanner) to the WDT60, use the **Port** control to select a virtual COM port to use for the connection.



4. Tap ‘Find Me’ if you want to make the WDT60 visible to other Bluetooth® devices for 60 seconds, allowing them to set up a connection.



**NOTE**

*By default, Bluetooth® is turned off. If you turn it on, and then turn off your device, Bluetooth® also turns off. When you turn on your device again, Bluetooth® turns on automatically.*

## 4.8 WASP DESKTOP UTILITY

Wasp Desktop Utility (WDU) allows administrators to configure Windows® CE and Embedded Handheld devices to control individual user access. This includes the ability to:

- Prevent users from changing your device OS settings.
- Use the Application Selector to replace the desktop with a selection of authorized applications.
- Restrict user access in Internet Explorer.
- Set up configuration and customized error recovery mechanisms.
- Create quick access hot keys and configure trigger actions.

To open WDU for the first time, tap Start > Settings > System > and then tap the icon for “Wasp Desktop Utility”.



You can also open WDU by pressing the appropriate key shortcut. The default is “Alt + 6”.

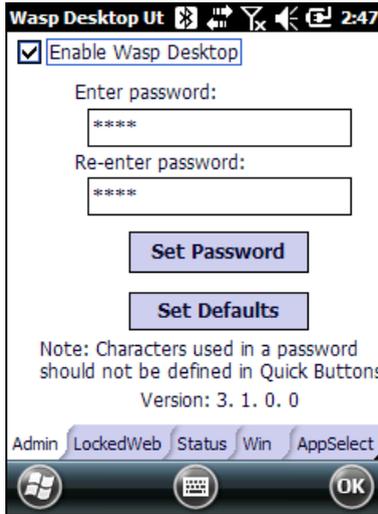


### NOTE

*The key combination can be changed by using Quick Buttons to redefine the association for specific keys (such as <F1>-<F10>). See par.4.6.3. for more information.*

### 4.8.1 Administrative Options (Admin tab)

When you open the WDU control panel, the “Admin” tab appears.



COMMAND	DESCRIPTION
Enable Wasp Desktop	Select/tap this checkbox to activate the WDU functions such as Windows Access Restrictions and Application Selector.
Enter Password	Enter a password in the text box. This allows the user to specify a password when this utility is launched. By default the password is “1234”. A password can consist of all standard keyboard characters.
Re-Enter Password	Carefully re-enter the password in the second text box.
Set Password	Select/tap “Set Password” to enable the password. To change or remove the password, enter a new value, re-enter the new value, and select/tap “Set Password”.
Set Defaults	Select/tap “Set Defaults” to reset the default values of all the functions on all the tabs. After you select this option, you will receive a prompt to verify this selection.

## Setting a Password

To set a password:

1. Enter a password in the field. This allows the user to specify a password when this utility is launched. By default the password is "1234".



**NOTE**

*Be sure to record the Password for future reference.*

2. Re-enter the password in the second field.
3. Select/tap "Set Password" to enable the password.
4. Select/tap "OK" to close the "Set Password Confirmation" dialog.



**NOTE**

*You must select/tap "Set Password" prior to exiting WDU in order to store and activate your new password. It is not necessary to select "Enable Wasp Desktop".*



**CAUTION**

*If you select/tap "Set Defaults" it will remove all custom settings and restore all the factory default settings, except a previously set password.*

## Changing a Password

To change to a new password:

1. Enter a new value in the "Enter Password field".
2. Re-enter the new value in the "Re-enter Password" field.
3. Select/tap "Set Password".

## Removing a Password

To remove a password:

1. Delete the contents of in both “Password” fields.
2. Select/tap “Set Password”.

## Password Request Dialog Box

Once the password is set, the next time you open the “Wasp Desktop Utility”, the WDU Password dialog box opens.

This dialog box will only open if a password was defined.



1. Type in your password using either the keypad on the unit, or using the stylus on the soft input panel (SIP).  
If you enter an incorrect password, the system will prompt you to input the correct one.
2. Select/tap “OK” to verify the password. Or tap “X” to cancel.

## 4.8.2 Locked Web Browser Options (LockedWeb tab)

Tap the **LockedWeb** tab to access the **Locked Web Browser Configuration**.



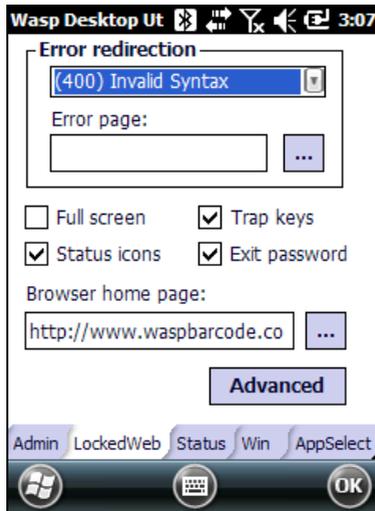
**NOTE**

*Locked Web Browser is disabled by default. To enable, go to “Advanced settings” on the next page for more information.*

For additional information about Locked Web Browser commands and metatags, see section 4.10, “Locked Web Browser”.

## Error Page Redirection

Use the Error Redirection option to provide customized recovery from common errors. When an error occurs, the browser can redirect access to a specified error page with instructions on how to recover from the problem.



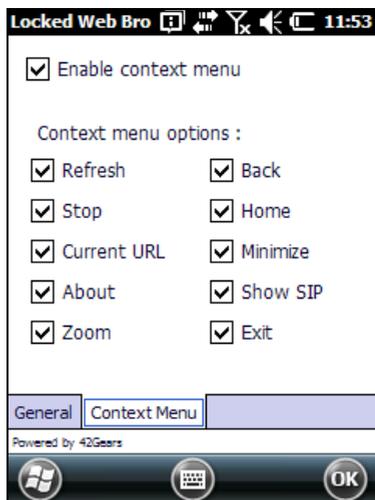
**Locked Web Configuration Tab**

<b>Error Redirection options</b>	
Error Type	The "Error Type" pull-down list displays available Error Types: (400) Invalid Syntax, (403) Request Forbidden, (404) Object Not Found, (406) No Response Format, (410) Page Doesn't Exist, (500) Internal Server Error, (501) Server Can't Do That, Generic Error, Network Disconnected
Error Page	Edit this textbox to associate a website or html file with the specified error.
<b>Other options</b>	
Full Screen	Set the web browser in full screen mode. This is the only option available for Windows Mobile.
Status Icon	Enable or disable the status icons view (see par. 0). The status icons can be configured on the Status tab of WDU.
Trap Keys	When checked: <ul style="list-style-type: none"> <li>– all key presses will be trapped by the Locked Web Browser to prevent the user from accessing unsafe parts of the system. For example, pressing Ctrl+O to Open a File will not work;</li> <li>– safe key presses (e.g. Alpha numeric) will still get processed by the Locked Web Browser as normal. For example entering a number in a text field on a web page;</li> <li>– DL Buttons keys will not work in the LockedWeb Browser;</li> <li>– all Locked Web Browser command keys will work (e.g. Ctrl+O to exit).</li> </ul> When unchecked: <ul style="list-style-type: none"> <li>– all keys will be processed normally by the system and the browser;</li> <li>– DL Buttons keys will work normally;</li> <li>– all Locked Web Browser command keys will work (e.g. Ctrl+O to exit).</li> </ul>
Exit Password	When checked, a password will be required before the Locked Web Browser can exit. This password is different than the WDU exit password, with a default value of "0000", and can be changed in the "Advanced" settings.
Browser Home Page	This sets the Internet Explorer home page, regardless of the enable state of the Locked Web Browser.
Advanced	Pressing this button will launch a dialog used to enable Locked Web Browser and to configure Advanced settings.

## Advanced settings



General Tab



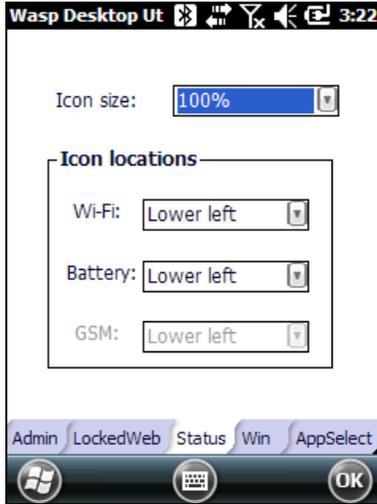
Context Menu

<b>Advanced Locked Web Browser options</b>	
<b>General</b>	
Enable Locked Web Browser	When checked, enables the Locked Web Browser when Internet Explorer is launched.
Disable Cache	Prevents the browser from loading the local intranet page from cache instead of navigating to the "Network Disconnected" error redirection page.
Allowed Website List	<p>Enables a "white list," which restricts browsing only to files and URLs in the Allowed Website list (accessed by the "..." button). The following dialog appears:</p> <div style="text-align: center;">  </div> <p><b>Allowed Website List</b></p> <p>Click the "Add" button to add allowed URLs to the white list. Other sites will be restricted when the option is enabled. Domain names must be exactly specified.</p>
Change Exit Password	Pressing this button brings up a dialog which allows the user to change the password required to exit the Locked Web Browser (when the "Exit password" option is selected on the LockedWeb tab in WDU).

<b>Context Menu</b>	
Enable Context Menu	Enables the context menu accessed by a touch screen press in the Locked Web Browser.
Refresh	Adds a “Refresh” item to the Locked Web Browser context menu. Selecting the “Refresh” item refreshes the web page.
Stop	Adds a “Stop” item to the Locked Web Browser context menu. Selecting during navigation stops the downloading of a page.
Current URL	Adds a “Current URL” item to the Locked Web Browser context menu. Selecting the item pops up a dialog displaying the URL for the current web page.
About	Adds an “About” item to the Locked Web Browser context menu. Selecting the “About” item pops up the “About” dialog.
Zoom	(WEHH only) Adds a “Zoom” item to the Locked Web Browser context menu. Selecting the item brings up the IE Zoom Tool.
Back	Adds a “Back” item to the Locked Web Browser context menu. Selecting the “Back” item performs a navigation to the previous page.
Home	Adds a “Home” item to the Locked Web Browser context menu. Selecting the “Home” item navigates to the IE home page.
Minimize	Adds a “Minimize” item to the Locked Web Browser context menu. Selecting the item minimizes the Locked Web Browser and allows access to other programs.
Show SIP	Adds a “Show SIP” item to the Locked Web Browser context menu. Selecting the “Show SIP” item toggles the show state of the SIP.
Exit	Adds an “Exit” item to the Locked Web Browser context menu. Selecting the item exits the Locked Web Browser with an optional password (set in the Locked Web Browser Advanced options).

### 4.8.3 Status Icons Options (Status Tab)

Tap the “Status” tab to access the Status Icons option. You can configure the view of some status icons that are used in “WebAppLock” and in “Application Selector” to display the status of: wi-fi radio and battery.

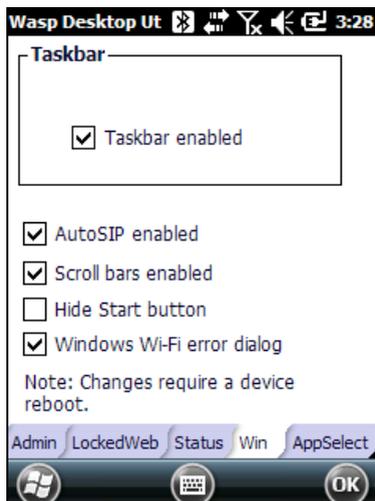


Status Icons Options	
Set Status Icon Defaults	Restores the status icons' factory settings.
Icon Size	Sets the status icons' size.
Icon Location	Selects the preferred location for each status icon.

#### 4.8.4 Windows Controls

Select/tap the “Win” (Windows Controls) tab to access the Windows Controls option. Use Windows controls to allow or restrict access to Windows system functions.

You can disable normal Windows functions such as the taskbar, leaving nothing but a blank workspace. This allows applications to be run in full screen mode and prevents users from accidental or unauthorized use of the taskbar, Internet Explorer, and any other resident applications.



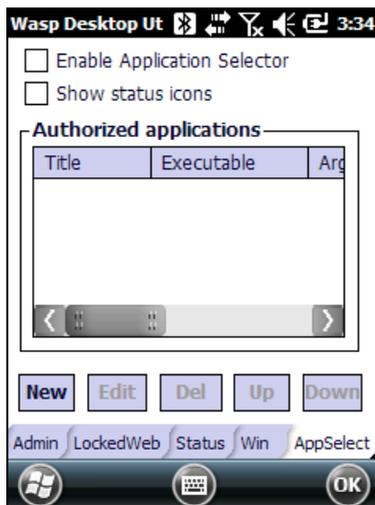
<b>Windows Controls</b>	
Taskbar Enabled	Select/tap "Taskbar Enabled" to specify whether the taskbar is accessible.
AutoSIP Enabled	Enables the AutoSIP Windows feature.
Scroll Bars Enabled	This control only take effects in WebAppLock. When checked, displays horizontal and vertical scroll bars to help view large web pages which do not fit the screen. When unchecked, those scrolls will not be present.
Hide Start Button	Select/tap "Hide Start Button" to specify whether the Start Button is displayed or not. This option works only when "Task Bar Enabled" is checked.
Windows Wifi Error Dialog	This control only takes effects in WebAppLock and Internet Explorer. When checked, the device will display a warning dialog when the WiFi connected device moves out of range of an access point and the user attempts to navigate to a web page. This dialog box allows the user to reconfigure the wifi on the device. When unchecked, that dialog box will not appear and the "Network Disconnected" error page redirection is used to prevent users from reconfiguring the wifi on the device. Tap the "WebAppLock Configuration Tab" to configure the "Network Disconnected" error page redirection (see par 4.8.2).

**NOTE**

*Changes require a device reboot.*

### 4.8.5 AppSelector Options (AppSelect tab)

Tap the Application Selector (“AppSelect” Tab) to edit, add, or delete applications for the application selector.



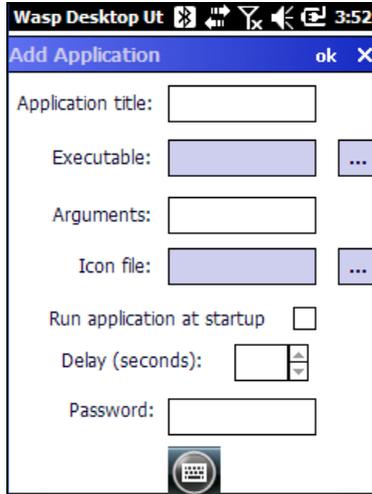
Application Selector Options	
Enable Application Selector	Select/tap “Enable Application Selector” to enable/disable the application selector. When enabled, the Application Selector replaces the desktop and allows only authorized use of applications.
Show status icons	Enable or disable the status icons view (see par. 4.8.3). The status icons can be configured on the Status tab of WDU.
Authorized Applications	Displays a list of applications that the user may access.

<b>Application Selector Commands</b>	
New	Select/tap "New" to create a new application entry.
Edit	Select/tap "Edit" to edit the selected entry.
Del	Select/tap "Del" to delete the selected entry.
Up/Down	Select/tap "Up/Down" to move an entry up or down in the Authorized Applications list.

## Add Applications

The “Add Application” dialog opens when you tap either “New” or “Edit”. From the “Add Application” dialog the administrator can configure and/or add/change a new application entry in the list.

Applications with the “Run Application at Startup” option enabled will start automatically when the Application Selector starts up.



COMMAND	DESCRIPTION
Application Title	Type the name of the application in this textbox in the way you wish it to appear for the user.
Executable	Displays the path for the executable file which you want to run.
Browse	Select/tap  to browse for the desired executable file. The results of this search are placed in the “Executable” textbox.
Arguments	Type any command line arguments to be used when an application is executed.

COMMAND	DESCRIPTION
Icon File	Displays the path/link to the desired icon file.
Browse	Select/tap  to browse for the desired icon file. The results of this search are placed in the "Icon File" textbox.
Run Application at Startup	Select/tap this box to force this application to auto start when the Application Selector starts up. Applications will be started in the order listed in the authorized application list.
Delay	Enter a delay duration in seconds in the combo box. This option delays auto start of application(s) to allow drivers to load prior to starting applications.
OK	Select/tap "OK" to add/save changes.
X	Select/tap "X" to cancel the creation of this entry.

## 4.9 APPSELECTOR (APPLICATION SELECTOR)

The Application Selector is an application that allows a device to run in kiosk mode.

The administrator can choose for the user to have access to the desktop or not. The Application Selector can replace the desktop and limit the user to the specified list of applications.

By default, the Application Selector comes with the LockedWeb preset.



**Application Selector**

The administrator can customize this list as shown in chapter 4.8.5. To run an application, tap on its name.

Additionally, the page template can be modified to display a different background. Contact your Wasp representative for more information on this feature.

To exit from Application Selector, press ALT + 6, uncheck the 'Enable Application Selector' check box on the AppSelect tab and press OK to exit WDU.

## 4.10 LOCKED WEB BROWSER

The Locked Web Browser is a web browser helper object for Internet Explorer. It allows an administrator to define a restricted internet usage environment. Once in the restricted environment, a password is required to exit. This means users can only access web applications and websites set by the administrator.



**NOTE**

*Configuration is set up through the WDU control panel. See section 4.8.2 for more information.*



**NOTE**

Zoom In and Zoom Out will only affect screen text and not bitmaps.

If the taskbar has been disabled, the Settings menu is not displayed. However, the user can still navigate within the web application by using the following keyboard shortcuts:

Home	Ctrl + 7
Refresh	Ctrl + 8
Cancel	Ctrl + 9
Exit	Ctrl + 0

For firmware versions 1.60 and newer, the following command line arguments are supported:

- **/E** optional parameter which allows for Exit without entering a password
- **@URL** optional parameter which specifies a URL to use as a home page.
- **/C** optional parameter which disables the ctrl keys (including the one to exit).

## 4.10.1 Locked Web Browser Special Meta-tags

### General Metatag Comments

A metatag is a special HTML tag that stores information about a Web page but does not display in a Web browser. For example, metatags provide information such as the program used to create the page, a description of the page, and keywords relevant to the page.

As per the HTML specification, all metatags must be contained within a <head> ... </head> tag set.

Also, the head tag set must be complete within the first 15K of the web page.

The Wasp Locked Web Browser defines some special metatags that allow the web application to interact with the device:

In particular, the special metatags allow it to:

- enable/disable scan engine triggers
- enable/disable specific symbologies in the scan engine
- easily assign a key press to a javascript function.

Metatag settings of trigger enable, symbology enable, or DL\_Key assignments persist past the page in which they are loaded. The settings stay in effect until they are changed by another metatag.

### Trigger Metatag

DL\_Triggers – “Enable” or “Disable” all triggers

If the page contains this tag, the triggers are enabled or disabled, depending on the “content=” value.

Example:

```
<meta http-equiv="DL_Triggers" content="Disable">
```

### **GetSerialNumber Metatag**

DL\_GetSerialNumber – Obtains the device serial number and sends it as an argument to a customer's javascript function.

Content – name of function to pass serial number to. Example:

```
<meta http-equiv="DL_GetSerialNumber" content="Javascript:CustomerFunction">
```

When a page with this metatag is loaded, the content should be a javascript function that receives one parameter, the serial number. An example would be function CustomerFunction(SerialNumber).

### **Reboot – Warm boot device Metatag**

DL\_Reboot – Warm boot device.

Content – “OnPageLoad” – Warm boot immediately upon page load.

Example:

```
<meta http-equiv="DL_Reboot" content=" OnPageLoad ">
```

### **Exit Metatag**

DL\_Exit – Exit the Locked Web Browser.

Content – “OnPageLoad” – Exit immediately upon page load. If “Exit password” has been enabled in the Locked Web Browser options, the Exit password will be required before exit.

Example:

```
<meta http-equiv="DL_Exit " content=" OnPageLoad ">
```

**Decoding Metatags:**

Each decoding metatag has a possible content of “Enable” or “Disable”. The settings are valid for the entire page (enables/disables each symbology).

DL\_Code\_39  
DL\_Code\_128  
DL\_Code\_I25  
DL\_Code\_S25  
DL\_Code\_M25  
DL\_Code\_CODABAR  
DL\_Code\_93  
DL\_Code\_UPCA  
DL\_Code\_UPCE  
DL\_Code\_EAN13  
DL\_Code\_EAN8  
DL\_Code\_MSI  
DL\_Code\_MSR  
DL\_Code\_GS1\_14  
DL\_Code\_GS1\_LIMIT  
DL\_Code\_GS1\_EXP  
DL\_Code\_PDF417  
DL\_Code\_DATAMATRIX  
DL\_Code\_MAXICODE  
DL\_Code\_TRIOPTIC  
DL\_Code\_PHARMA39  
DL\_Code\_RFID  
DL\_Code\_MICROPDF417  
DL\_Code\_COMPOSITE  
DL\_Code\_QRCODE  
DL\_Code\_AZTEC  
DL\_Code\_POSTAL

Examples:

```
<meta http-equiv="DL_Code_39" content="Disable">
```

```
<meta http-equiv="DL_Code_I25" content="Enable">
```

## Key press Metatags

The key press metatags can be used to call JavaScript functions. They have the name structure: "DL\_Key\_xxx" where xxx is the VKey code.

Example:

```
<meta http-equiv="DL_Key_13" content="Javascript:CheckEnter();">
```

Assigning a key press via a DL\_Key metatag overrides its use on the page. For instance, when entering data in a text box a character assigned as a DL\_Key would not be entered in the text box. Instead, the javascript action would occur.

Refer to the Microsoft website to find the list of all the possible Vkey codes:

<http://msdn.microsoft.com/en-us/library/bb431750.aspx>  
[http://msdn.microsoft.com/en-us/library/aa243025\(VS.60\).aspx](http://msdn.microsoft.com/en-us/library/aa243025(VS.60).aspx)



**NOTE**

*Because DL\_Keys persist past the page in which they were loaded, the DL\_Clear metatag is provided to clear the settings on subsequent page loads.*

## Scanning Metatags

DL\_Scan – Captures scan results and sends barcode/tag value to a javascript function on the web page.

If the "content=" value is a javascript function the device will be taken out of keyboard wedge mode and start listening for scan events. A scanned barcode/tag result will be used as an argument to that javascript function which is then invoked.

If the "content=" value is "Wedge" then the device will stop listening for scanned event and enter keyboard wedge mode.

If the "content=" value is "Disable" then the device will stop listening for scanned events but not enter keyboard wedge mode.

Example:

```
<meta http-equiv="DL_Scan" content="Javascript:ValidateInput()">
```

## 4.11 AUTOSTART

The AutoStart program provides three functions:

- Allows you to create a list of applications (with optional command line arguments) to run automatically prior to loading CAB files.
- Automatically reinstalls specified CAB files when the WDT60 is cold booted.
- Allows you to create a list of applications (with optional command line arguments) to run automatically after loading CAB files.

AutoStart launches each time the WDT60 is rebooted executing each line with the specified command line arguments. It will take into account any AutoStart options at the beginning of the line.

Upon a Cold Boot, AutoStart installs all the CAB files located in the \CAB folder. If the CAB folder does not exist, no CAB files will be installed.

AutoStart will then run the **Autostart.ini** from the \root directory, executing each line with the specified command line arguments. It will take into account any AutoStart options at the beginning of the line.

### 4.11.1 Installing CAB Files

Copy any CAB files you want to install into the \CAB folder. These CAB files will then be automatically in-stalled in alphabetical order the next time you start the device.

### 4.11.2 How AutoStart Uses Wceload



#### NOTE

*If you intend to create highly interactive installers, you should either install the CABs manually or review the section on “Interactive CAB Install” in this chapter..*



#### CAUTION

*In certain environments, CAB files will be deleted after execution. To prevent the CAB file from being deleted, write protect the file before copying the file onto the device.*

CAB files are installed by AutoStart using the **Wceload.exe** application. The following table shows available command line option:

Option	Description
/noui	Specifies that you will not be prompted for any input during the installation. If the CAB file is signed, any responses will automatically be answered ‘Yes.’ If the CAB is unsigned, then any responses will be answered ‘No.’
/silent	Suppresses dialog boxes during the installation.

Please refer to the Microsoft documentation on your device for further details on **Wceload.exe**.

#### Sample:

```
\Windows\Wceload.exe /delete 1 /noui /silent  
“\CAB\<cab file>”
```

### 4.11.3 Interactive CAB Install

- If the CAB installer requires user interaction that must be performed during the AutoStart CAB installation process, you can specify a special file name to disable the silent mode installation. If this mode is specified, the CAB file will be installed with `wceload` without any command line arguments specified.

An example of what AutoStart would execute is:

```
\Windows\Wceload.exe <cab file>
```

To force this mode of installation via AutoStart, rename the CAB file to include a '\_' character before the ".cab" extension of the file.

**Example:**

"**File.cab**" should be renamed "**File\_.cab**" to force AutoStart to not install the CAB in silent mode. This specially-named CAB file should be placed in the AutoStart folder with other CAB files intended for installation on the next reboot.

### 4.11.4 Autostart.ini



**NOTE**

*A file named 'PreAuto.ini' can also be created in addition to or instead of Autostart.ini. PreAuto.ini is executed before CAB files in the \Cab folder are installed. Autostart.ini is executed after CAB files in the \Cab folder are installed. The format for the PreAuto.ini is identical to that of Autostart.ini.."*

Autostart.ini is a text file that AutoStart will run upon startup of the WDT60, and after any CAB files are installed. This file should be placed in the \root folder. AutoStart will run the Autostart.ini file on each reboot of the device.

### Line Formatting

Each line of the **Autostart.ini** can consist of Autostart options, an executable, and any command line arguments.

```
< Autostart option(s)> <full path to executable>  
<command line arguments>
```

**Sample:**

```
- \windows\pword.exe \file.doc
```

The following table breaks down the sample Autostart.ini line:

Autostart option(s)	Full path to executable	Command line arguments
-	\windows\pword.exe	\file.doc

Spaces must be placed between each component of the line in the Autostart.ini.

If the executable path is in a folder that contains spaces in the name, quotes are required to distinguish what the actual executable name is. The following is an example of this:

```
"\Program Files\ScannerApp.exe" /run  
(valid)  
\Program Files\ScannerApp.exe /run  
(invalid)
```

The second line is an invalid line because there is no way to distinguish the executable from the argument.

## AutoStart Options

The table below shows options you can use when writing a line in the Autostart.ini file.

Description	Character	Comments
Comment: This line will not be executed.	'#' OR ' ' (space)	This may only be used as the first character of the line. If the comment option is specified in the options elsewhere, it is ignored.
Do not wait on line completion: This will cause the line to execute and immediately move onto the next line.	','	
Query: Request user confirmation when running the executable.	'?'	This will halt parsing the Autostart.ini until the confirmation is answered. This is intended for debugging the Autostart.ini file.
Execute only on Cold Reset	'!'	
Execute only after a warm boot	'%'	

**Cold Reset Only:** This will cause the line to execute only after a Cold Reset.



**NOTE**

*An empty line will be treated as a comment line.*

## Combining Options

Autostart options can be combined together as shown in the following sample:

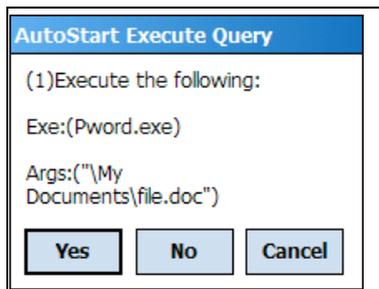
?- \Windows\Pword.exe

This line would:

- Request confirmation before executing the line. The next line would not be processed before the confirmation is answered.
- Run the next line without waiting on the current line to complete execution.

## Query Option

The query option is intended for use when debugging the autostart.ini. When a line with this option is executed, the following dialog will appear with the specified executable and command line arguments. The populated fields shown in the AutoStart Execute Query are described the next table:



Field	Description
Line Number	This is the line number in the script being executed.
Exe	The executable as parsed by AutoStart.
Args	The argument as parsed by AutoStart.

**NOTE**

*The fields may be broken up into multiple lines (as shown in the example) due to limited space in the dialog.*

**AutoStart Query Options**

Parentheses are used to surround the given field and make it very clear what the value of the field is.

The following table describes the results of each choice:

<b>Button</b>	<b>Action</b>
Yes	The current line will execute.
No	The current line will not execute. AutoStart will continue parsing the Autostart.ini.
Cancel	The current line will not execute and AutoStart will discontinue parsing the Autostart.ini.

## Autostart.ini Samples

The next table is a collection of sample Autostart.ini lines:

Line	Description
? \windows\wceload.exe "My Documents\Sample.cab"	This will confirm the execution of \Windows\wceload.exe with specified argument "My Documents\Sample.cab"
\Program Files\App.exe	(invalid) This will execute \Program with the argument Files\App.exe.
\Program Files\App.exe /run	(invalid) This will execute \Program with the argument Files\App.exe /run.
"\Program Files\App.exe" /run	This will execute the program \Program Files\App.exe with the argument /run.
?- \Windows\Pword.exe	This will confirm the execution of \Windows\Pword.exe. If the execution is confirmed, AutoStart will immediately process the next line.
!"\Program Files\App.exe" /run	This will execute the program \Program Files\App.exe with the argument /run ONLY after a Cold Reset.

## 5 TECHNICAL FEATURES

### 5.1 TECHNICAL DATA

PHYSICAL CHARACTERISTICS	
DIMENSIONS (LXWXH)	With Standard Battery: 14.4 x 6.8 x 2.7 cm / 5.6 x 2.6 x 1.0 in With Hi-Capacity Battery: 14.4 x 6.8 x 3.3 cm / 5.6 x 2.6 x 1.3 in
WEIGHT	With Standard Battery: 270.0 g / 9.5 oz With Hi-Capacity Battery: 300.0 g / 10.6 oz
AUDIO	Main (rear) speaker Receiver (front) speaker
LEDS	Three LEDs Decoding Status/ Keyboard Status/ Charging Status
DISPLAY	TFT-LCD color display QVGA: 320 x 240 pixels; 2.7 in diagonal; 262, 144 color display capability; Full Graphics with backlight; Touch Screen
KEYBOARD	27-key Numeric or 46-key QWERTY backlit keyboard standard; Side scan keys and volume setting
OPERATING TEMPERATURE*	0° +50°C (32° to 122°F)
STORAGE TEMPERATURE	-20° +70°C (-4° to 158°F)
HUMIDITY**	90% non condensing for temperatures < 40 °C
DROP RESISTANCE***	Withstands drops from 1.2 m (4.0 ft) onto concrete
ENVIROMENTAL SEALING	IP54 standard for water and dust resistance
ESD PROTECTION	4 KV contact discharge, 8 KV air discharge

\* In order to achieve the maximum charging rate the WDT60 should be charged between 0-40 °C.

Never charge the main device or spare batteries in a closed space where excessive heat can build up. Close to the limits of the working temperature, some display and/or battery performance degradation may occur. When the battery is discharged, the device with all phone capability turns off and will not work again until the battery is charged to at least 20% (or changed out).

Emergency calls are not guaranteed at battery charge status lower than 20%.

\*\* Multiple rapid humidity and/or temperature variations may cause condensing.

\*\*\* Multiple drops can permanently damage the device.

<b>SYSTEM</b>	
OPERATING SYSTEM	Microsoft Windows Embedded Handheld 6.5 with Mobile Tools: Text, Messaging, Word Mobile, Excel Mobile, PowerPoint Mobile, One Note Mobile and Internet Explorer Mobile 6.0
MICROPROCESSOR	XScale™ PXA310 @ 806 MHz
SYSTEM RAM MEMORY	256 MB
SYSTEM FLASH MEMORY	512 MB
POWER SUPPLY*	<p>Removable battery pack with rechargeable Li-ion batteries; 3.7 V 1800/3600 mAh (6.6/13.3 Watt hours).</p> <p>Micro-USB power adapter for direct charge and power adapter.</p> <p>Micro-USB power adapter requirements:</p> <p>IDCP min=1,8A</p> <p>VCHG min=4,75V</p> <p>VCHG max=5,25V</p> <p>RDCP_DAT max=200 ohm</p> <p>LPS source according to</p> <p>EN 60950:2006+A1+A11+A12</p> <p>IEC 60950:2005+A1:2009</p>

\* Wasp Barcode Technologies recommends the use of approved adapters to keep all regulatory requirements and to guarantee the best performances

<b>COMMUNICATIONS</b>	
INTERFACES	Micro-USB connector: USB 1.1 Client and USB 1.1 Host HandyLink™ connector: integrated RS-232 up to 115.2 Kbps, USB 1.1 Client, USB 1.1 Host Ethernet: via single dock (external module) or multiple cradle
LOCAL AREA NETWORK (LAN)	Summit IEEE 802.11 b/g/n Cisco CCX v4 certified Frequency range: Country dependent, typically 2.4 GHz bands
PERSONAL AREA NETWORK (PAN)	Bluetooth® Wireless Technology IEEE 802.15 v2.0 with EDR

<b>READING OPTIONS</b>	
<b>LASER CHARACTERISTICS</b>	
SCANNING RATE	104 ± 12 scan/sec
OPTICAL RESOLUTION	0.10 mm / 4 mils
DEPTH OF FIELD	See reading diagram (par. 5.2)
SKEW ANGLE	± 50°
PITCH ANGLE	± 65°
AIMING LASER	VLD, wavelength 630~670 nm
BAR CODES	GS1-DataBar family, EAN/UPC, Code 39, 2/5 Codes, Codabar, Code 128, GS1-128, MSI, Code 93.
LASER CLASSIFICATION	VLD - Class 2 IEC/EN60825-1; Compliant with 21 CFR 1040.10 except for deviations pursuant to laser notice No. 50 dated June 24, 2007
ILLUMINATION SYSTEM	LEDs 600~630 nm

## 5.2 READING DIAGRAMS

### WDT60 SE950-DL

<b>Symbol Density/ Bar Code Type/ W-N Ratio</b>	<b>Far 47° Guaranteed Working Ranges</b>
4.0 mil Code 39; 2.5:1	2,6 in 6,63 cm
5.0 mil Code 39; 2.5:1	4,9 in 12,47 cm
7.5 mil Code 39; 2.5:1	8,9 in 22,63 cm
10 mil Code 39; 2.5:1	13,4 in 34,06 cm
13 mil 100% UPC	17,4 in 44,22 cm
15 mil Code 39; 2.5:1	20,4 in 51,84 cm
20 mil Code 39; 2.2:1	26,4 in 67,08 cm
40 mil Code 39; 2.2:1	27,4 in 69,62 cm
55 mil Code 39; 2.2:1	33,4 in 84,86 cm

## 6 TEST CODES

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### High Density Codes

0.25 mm (10 mils)

Code 39



17162

2/5 Interleaved



0123456784

Code 128



test

80%

EAN 13



8 012345 000012

80%

EAN 8



6450 9723

**Medium Density Codes**

0.38 mm (15 mils)

Code 39



17162

Interleaved 2/5



0123456784

Code 128



test

---

EAN 13

100%



8 012345 000012

EAN 8

100%



6450 9723

## Low Density Codes

0.50 mm (20 mils)

Code 39



17162

Interleaved 2/5



0123456784

Code 128



test

EAN 13

120%



8 012345 000012

EAN 8

120%



6450 9723

### 2D Codes

Datamatrix ECC200



Example

Inverse  
Datamatrix ECC200



Example

# SAFETY REGULATIONS

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**NOTE**

*Read this manual carefully before performing any type of connection to the WDT60 PDA.*

*The user is responsible for any damages caused by incorrect use of the equipment or by inobservance of the indication supplied in this manual.*

## GENERAL SAFETY RULES

- Use only the components supplied by the manufacturer for the specific WDT60 being used.
- Do not attempt to disassemble the WDT60 PDA, as it does not contain parts that can be repaired by the user. Any tampering will invalidate the warranty.
- When replacing the battery pack or at the end of the operative life of the WDT60 PDA, disposal must be performed in compliance with the laws in force in your jurisdiction.
- Before using the devices and the battery packs, read chapter 2.
- Do not submerge the WDT60 in liquid products.
- For further information, refer to this manual and to the Wasp web site: [www.waspbarcode.com](http://www.waspbarcode.com).

## POWER SUPPLY

This device is intended to be connected to a UL Listed/CSA Certified computer which supplies power directly to the WDT60 or else be supplied by a UL Listed/CSA Certified Power Unit marked "Class 2" or LPS power source rated 5 V, 1.8 A, which supplies power directly to the WDT60 via the power connector of the cable.

The package includes three international plug adapters. The adapters must be plugged into the power supply before the power supply itself is plugged on the wall outlet.

# LASER SAFETY

The laser light is visible to the human eye and is emitted from the window indicated in the figure.

This information applies to both laser models and the WDT60 Imager Aiming System.



I	D	F	E
<p>La luce laser è visibile all'occhio umano e viene emessa dalla finestra indicata nella figura.</p>	<p>Die Laserstrahlung ist für das menschliche Auge sichtbar und wird am Strahlaustrittsfenster ausgesendet (siehe Bild).</p>	<p>Le rayon laser est visible à l'oeil nu et il est émis par la fenêtre désignée sur l'illustration dans la figure.</p>	<p>La luz láser es visible al ojo humano y es emitida por la ventana indicada en la figura.</p>
<p>LUCE LASER NON FISSARE IL FASCIO APPARECCHIO LASER DI CLASSE 2 MASSIMA POTENZA DI USCITA: 1.7mW LUNGHEZZA D'ONDA EMESSA: 650nm CONFORME A IEC 60825-1 (2007)</p>	<p>LASERSTRAHLUNG NICHT IN DER STRAHL BLINKEN PRODUKT DER LASERKLASSE 2 MAXIMALE AUSGANGLEISTUNG: 1.7mW WELLENLÄNGE: 650nm ENTSPR. IEC 60825-1 (2007)</p>	<p>RAYON LASER EVITER DE REGARDER LE RAYON APPAREIL LASER DE CLASSE 2 MAXIMUM PUISSANCE DE SORTIE: 1.7mW LONGUER D'ONDE EMISE: 650nm CONFORME A IEC 60825-1 (2007)</p>	<p>RAYO LÁSER NO MIRAR FIJO EL RAYO APARATO LÁSER DE CLASE 2 MÁXIMA POTENCIA DE SALIDA: 1.7mW LONGITUD DE ONDA EMITIDA: 650nm CONFORME A IEC 60825-1 (2007)</p>

## ENGLISH

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

### STANDARD LASER SAFETY REGULATIONS

This product conforms to the applicable requirements of both CDRH 21 CFR 1040 Subchapter J and IEC 60825-1:2007 at the date of manufacture.

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



**CAUTION**

*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. The optics system is a factory only repair item.*



**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 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.



**CAUTION**

*Use of optical systems with the scanner will increase eye hazard. Optical instruments include binoculars, microscopes, eye glasses and magnifying glasses.*

## 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 sezione J e IEC 60825-1:2007.

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



**ATTENZIONE**

*Non tentare di accedere allo scomparto contenete i componenti ottici o di farne la manutenzione.*

*L'apertura dello scomparto, o la manutenzione di qualsiasi parte ottica da parte di personale non autorizzato, potrebbe violare le norme della sicurezza. Il sistema ottico può essere riparato solamente alla fabbrica.*



**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.



**ATTENZIONE**

*L'uso di strumenti ottici assieme allo scanner può aumentare il pericolo di danno agli occhi. Tali strumenti ottici includono cannocchiali, microscopi, occhiali e lenti di ingrandimento.*

## 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 IEC 60825-1:2007 und CDRH 21 CFR 1040 Subchapter J Normen für die Lasersicherheit.

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



**ACHTUNG**

*Unter keinen Umständen darf versucht werden, die Komponenten im Optikhohlraum zu öffnen oder auf irgendwelche andere Weise zu warten. Das Öffnen bzw. Warten der Komponenten im Optikhohlraum durch unbefugtes Personal verstößt gegen die Laser-Sicherheitsbestimmungen. Das Optiksystm darf nur werkseitig repariert werden.*



**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.



**ACHTUNG**

*Die Verwendung von Optiksystmen mit diesem Scanner erhöht die Gefahr einer Augenbeschädigung. Zu optischen Instrumenten gehören unter anderem Ferngläser, Mikroskope, Brillen und Vergrößerungsgläser.*

## 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 sous-chapitre J et IEC 60825-1:2007.

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



**ATTENTION**

*Ne pas essayer d'ouvrir ou de réparer les composants de la cavité optique. L'ouverture de la cavité optique ou la réparation de ses composants par une personne non qualifiée peut entraîner le nonrespect des règles de sécurité relatives au laser. Le système optique ne peut être réparé qu'en usine.*



**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).



**ATTENTION**

*L'utilisation d'instruments optiques avec le scanneur augmente le danger pour les yeux. Les instruments optiques comprennent les jumelles, les microscopes, les lunettes et les verres grossissants.*

## 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 Sección J y IEC 60825-1:2007.

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



**ATENCIÓN**

*No intente abrir o de ninguna manera dar servicio a ninguno de los componentes del receptáculo óptico. Abrir o dar servicio a las piezas del receptáculo óptico por parte del personal no autorizado podría ser una violación a los reglamentos de seguridad. El sistema óptico se puede reparar en la fábrica solamente.*



**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.



**ATENCIÓN**

*El uso de sistemas ópticos con el escáner aumentará el riesgo de daños oculares. Los instrumentos ópticos incluyen binoculares, microscopios, lentes y lupas.*

## **LED CLASS**

LED illuminators integrated in the WDT60 models with SE-4500 imager engine are compliant with exempt risk group requirements according to IEC62471:2006 and EN62471:2008.

Flash LED integrated in the WDT60 models with camera is blue light hazard risk group 1 according to IEC62471:2006 and EN62471:2008.

## RADIO COMPLIANCE

In radio systems configured with PDAs and access points, the frequencies to be used must be allowed by the spectrum authorities of the specific country in which the installation takes place. Be absolutely sure that the system frequencies are correctly set to be compliant with the spectrum requirements of the country.

The Radio modules used in this product automatically adapt to the frequencies set by the system and do not require any parameter settings.

The TYPE field shows the correspondence between WDT60 types and radio modules:

TYPE: 0BCDEE-FGH-IJJK-LMMMM

C: "0" if IEEE 802.11 module is not present, "A" for IEEE 802.11 abg module, "G" for IEEE 802.11 bg module, "N" for IEEE 802.11 bgn module

D: "0" if RFID module is not present.



## BLUETOOTH® APPROVAL

For more information visit: <http://www.bluetooth.org/tpg/listings.cfm>.

## Information for the User

### ENGLISH

Contact the competent authority responsible for the management of radio frequency devices of your country to verify any possible restrictions or licenses required. Refer to the web site <http://ec.europa.eu/enterprise/sectors/rtte/documents/contacts-points/spectr/> for further information.

### ITALIANO

Contatta l'autorità competente per la gestione degli apparati a radio frequenza del tuo paese, per verificare eventuali restrizioni o licenze. Ulteriori informazioni sono disponibili sul sito:  
<http://ec.europa.eu/enterprise/sectors/rtte/documents/contacts-points/spectr/>.

### FRANÇAIS

Contactez l'autorité compétente en la gestion des appareils à radio fréquence de votre pays pour vérifier d'éventuelles restrictions ou licences. Pour tout renseignement vous pouvez vous adresser au site web:  
<http://ec.europa.eu/enterprise/sectors/rtte/documents/contacts-points/spectr/>.

### DEUTSCH

Wenden Sie sich an die für Radiofrequenzgeräte zuständige Behörde Ihres Landes, um zu prüfen ob es Einschränkungen gibt, oder eine Lizenz erforderlich ist. Weitere Informationen finden Sie auf der Web Seite:  
<http://ec.europa.eu/enterprise/sectors/rtte/documents/contacts-points/spectr/>.

### ESPAÑOL

Contacta la autoridad competente para la gestión de los dispositivos de radio frecuencia de tu país, para verificar cualesquiera restricciones o licencias posibles requerida. Además se puede encontrar mas información en el sitio web:  
<http://ec.europa.eu/enterprise/sectors/rtte/documents/contacts-points/spectr/>.

## FCC COMPLIANCE

### FCC Regulations

- 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.
  
- This device 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 radiated 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/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

## RF EXPOSURE INFORMATION (SAR)

This model device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

The exposure standard for wireless devices employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg. Tests for SAR are conducted using standard operating positions accepted by the FCC with the device transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. This is because the device is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

While there may be differences between the SAR levels of various devices and at various positions, they all meet the government requirement.

The FCC has granted an Equipment Authorization for this model device with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model device is on file with the FCC and can be found under the Display Grant section of <http://transition.fcc.gov/oet/ea/fccid> after searching on the below FCC ID: C530060WDT60.

This device is compliant with SAR for general population /uncontrolled exposure limits in ANSI/IEEE C95.1-1999 and had been tested in accordance with the measurement methods and procedures specified in OET Bulletin 65 Supplement C.

For body worn operation, this device has been tested and meets the FCC RF exposure guidelines for use with an accessory that contains no metal and the positions the handset a minimum of 1.5 cm from the body. Use of other enhancements may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the device at the ear, position the handset a minimum of 1.5 cm from your body when the device is switched on.

## **INDUSTRY CANADA COMPLIANCE**

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

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.

This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

The County Code Selection feature is disabled for products marketed in the US/Canada.

### **IMPORTANT NOTE:**

#### **IC Radiation Exposure Statement**

This EUT is compliant with SAR for general population/uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528. This equipment should be installed and operated with minimum distance 1,5cm between the radiator & your body.

## SAR COMPLIANCE

1. For the used worst case positions, the portable device WDT60 from Wasp Barcode Technologies (FCC ID: C530060WDT60) is in compliance with the IC RSS 102 Issue 4 [RSS 102] and Federal Communications Commission (FCC) Guidelines [OET 65] for uncontrolled exposure. SAR assessment in body worn was conducted with a distance of 15 mm between the housing of the handheld and the flat phantom.
2. EN 50360:2001: product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz – 3 GHz).
3. EN 62209-1:2006 : Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices. Human models, instrumentation, and procedures. Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)
4. EN 62209-2 :2010: Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices. Human models, instrumentation, and procedures. Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz).

## WEEE COMPLIANCE



### Informazione degli utenti ai sensi della Direttiva Europea 2002/96/EC

L'apparecchiatura che riporta il simbolo del bidone barrato deve essere smaltita, alla fine della sua vita utile, separatamente dai rifiuti urbani.

Smaltire l'apparecchiatura in conformità alla presente Direttiva consente di:

- evitare possibili conseguenze negative per l'ambiente e per la salute umana che potrebbero invece essere causati dall'errato smaltimento dello stesso;
- recuperare materiali di cui è composto al fine di ottenere un importante risparmio di energia e di risorse.

Per maggiori dettagli sulle modalità di smaltimento, contattare il Fornitore dal quale è stata acquistata l'apparecchiatura o consultare la sezione dedicata sul sito [www.waspbarcode.com](http://www.waspbarcode.com).

### Information for the user in accordance with the European Commission Directive 2002/96/EC

At the end of its useful life, the product marked with the crossed out wheeled wastebin must be disposed of separately from urban waste.

Disposing of the product according to this Directive:

- avoids potentially negative consequences to the environment and human health which otherwise could be caused by incorrect disposal
- enables the recovery of materials to obtain a significant savings of energy and resources.

For more detailed information about disposal, contact the supplier that provided you with the product in question or consult the dedicated section at the website [www.waspbarcode.com](http://www.waspbarcode.com).

## **Information aux utilisateurs concernant la Directive Européenne 2002/96/EC**

Au terme de sa vie utile, le produit qui porte le symbole d'un caisson à ordures barré ne doit pas être éliminé avec les déchets urbains.

Éliminer ce produit selon cette Directive permet de:

- éviter les retombées négatives pour l'environnement et la santé dérivant d'une élimination incorrecte
- récupérer les matériaux dans le but d'une économie importante en termes d'énergie et de ressources

Pour obtenir des informations complémentaires concernant l'élimination, veuillez contacter le fournisseur auprès duquel vous avez acheté le produit ou consulter la section consacrée au site Web [www.waspbarcode.com](http://www.waspbarcode.com).

## **Información para el usuario de acuerdo con la Directiva Europea 2002/96/CE**

Al final de su vida útil, el producto marcado con un símbolo de contenedor de basura móvil tachado no debe eliminarse junto a los desechos urbanos.

Eliminar este producto de acuerdo con la Directiva permite de:

- evitar posibles consecuencias negativas para el medio ambiente y la salud derivadas de una eliminación inadecuada
- recuperar los materiales obteniendo así un ahorro importante de energía y recursos

Para obtener una información más detallada sobre la eliminación, por favor, póngase en contacto con el proveedor donde lo compró o consultar la sección dedicada en el Web site [www.waspbarcode.com](http://www.waspbarcode.com).

## **Benutzerinformation bezüglich Richtlinie 2002/96/EC der europäischen Kommission**

Am Ende des Gerätelebenszyklus darf das Produkt nicht über den städtischen Hausmüll entsorgt werden. Eine entsprechende Mülltrennung ist erforderlich.

Beseitigung des Produkts entsprechend der Richtlinie:

- verhindert negative Auswirkungen für die Umwelt und die Gesundheit der Menschen
- ermöglicht die Wiederverwendung der Materialien und spart somit Energie und Ressourcen

Weitere Informationen zu dieser Richtlinie erhalten sie von ihrem Lieferanten über den sie das Produkt erworben haben, oder besuchen sie unsere Homepage unter [www.waspbarcode.com](http://www.waspbarcode.com).

# GLOSSARY

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## **Access Point**

A device that provides transparent access between Ethernet wired networks and IEEE 802.11 interoperable radio-equipped mobile units. Hand-held mobile computers, PDAs or other devices equipped with radio cards, communicate with wired networks using Access Points (AP). The mobile unit (PDA) may roam among the APs in the same subnet while maintaining a continuous, seamless connection to the wired network.

## **Applet**

Diminutive form of app (application), it refers to simple, single-function programs that often ship with a larger product. Programs such as Windows' Calculator, File Manager, and Notepad are examples of applets.

## **Barcode**

A pattern of variable-width bars and spaces which represents numeric or alphanumeric data in binary form. The general format of a barcode symbol consists of a leading margin, start character, data or message character, check character (if any), stop character, and trailing margin. Within this framework, each recognizable symbology uses its own unique format.

## **Baud Rate**

A measure for data transmission speed.

## **Bit**

Binary digit. One bit is the basic unit of binary information. Generally, eight consecutive bits compose one byte of data. The pattern of 0 and 1 values within the byte determines its meaning.

## **Bluetooth®**

A standard radio technology using a proprietary protocol. The onboard Bluetooth® module in the device is compatible with the 2.1 protocol with Enhanced Data Rate (EDR).

## **Byte**

On an addressable boundary, eight adjacent binary digits (0 and 1) combined in a pattern to represent a specific character or numeric value. Bits are numbered from the right, 0 through 7, with bit 0 the low-order bit. One byte in memory can be used to store one ASCII character.

**Decode**

To recognize a bar code symbology (e.g., Codabar, Code 128, Code 3 of 9, UPC/EAN, etc.) and convert the content of the bar code scanned from a visual pattern into electronic data.

**Depth of Field (DOF)**

The portion of a scene that appears acceptably sharp in the image. Although a lens can precisely focus at only one distance, the decrease in sharpness is gradual on each side of the focused distance, so that within the DOF, the unsharpness is imperceptible under normal viewing conditions.

**EEPROM**

Electrically Erasable Programmable Read-Only memory. An on-board non-volatile memory chip.

**Ethernet**

The standard local area network (LAN) access method. A reference to "LAN," "LAN connection" or "network card" automatically implies Ethernet. Defined by the IEEE as the 802.3 standard, Ethernet is used to connect computers in a company or home network as well as to connect a single computer to a cable modem or DSL modem for Internet access.

**Firmware**

Firmware is a software program or set of instructions programmed on a hardware device. It provides the necessary instructions for how the device communicates with the other computer hardware. Firmware is typically stored in the flash ROM of a hardware device. While ROM is "read-only memory," flash ROM can be erased and rewritten because it is actually a type of flash memory.

**Flash Disk**

Non-volatile memory for storing application and configuration files.

**Host**

A computer that serves other mobile computers in a network, providing services such as network control, database access, special programs, supervisory programs, or programming languages.

**IEEE 802.11**

A set of standards carrying out wireless local area network (WLAN) computer communication in the 2.4, 3.6 and 5 GHz frequency bands. They are created and maintained by the IEEE LAN/MAN Standards Committee.

**Liquid Crystal Display (LCD)**

A display that uses liquid crystal sealed between two glass plates. The crystals are excited by precise electrical charges, causing them to reflect light outside according to their bias. They use little electricity and react relatively quickly. They require external light to reflect their information to the user.

**Light Emitting Diode (LED)**

A low power electronic light source commonly used as an indicator light. It uses less power than an incandescent light bulb but more than a Liquid Crystal Display (LCD).

**Null modem cable**

RS-232 serial cable where the transmit and receive lines are crosslinked. In some cables there are also handshake lines crosslinked. In many situations a straight through serial cable is used, together with a null modem adapter. The adapter contains the necessary crosslinks between the signals.

**Pairing**

A Bluetooth pairing occurs when two Bluetooth devices agree to communicate with each other and establish a connection.

**Piconet**

A piconet is a Bluetooth PAN that links up to eight devices. Each piconet is controlled by one master device, and up to seven slave devices at any one time. Any device may be a member of more than one piconet, changing its membership as a user moves from one area to another.

**RAM**

Random Access memory. Data in RAM can be accessed in random order, and quickly written and read.

**RF**

Radio Frequency.

**RTC**

Real Time Clock.

## **USB**

Universal Serial Bus. Type of serial bus that allows peripheral devices (disks, modems, printers, digitizers, data gloves, etc.) to be easily connected to a computer. A “plug-and-play” interface, it allows a device to be added without an adapter card and without rebooting the computer (the latter is known as hot-plugging). The USB standard, developed by several major computer and telecommunications companies, supports data-transfer speeds up to 12 megabits per second, multiple data streams, and up to 127 peripherals.

## **WLAN**

A Wireless Local Area Network links devices via a wireless distribution method (typically spread-spectrum or OFDM radio), and usually provides a connection through an access point to the wider internet. This gives users the mobility to move around within a local coverage area and still be connected to the network.

## **WPAN**

A Wireless Personal Area Network is a personal area network - a network for interconnecting devices centered around an individual person's workspace - in which the connections are wireless. Typically, a wireless personal area network uses some technology that permits communication within about 10 meters - in other words, a very short range.

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## DECLARATION OF CONFORMITY

**Wasp Barcode Technologies**  
1400 10th street, Plano TX,  
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declares that the  
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### WDT60

*modelli con funzionalità radio 802.11a/b/g+BT*  
*models with 802.11a/b/g+BT radio feature*  
*modèles avec 802.11a/b/g+BT radio intégrés*  
*modelle mit 802.11a/b/g+BT radio-funktionalität*  
*modelos con funcionalidad radio 802.11a/b/g+BT*

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### EN 55022: 2010 (CLASS B ITE)

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

### EN 55024: 2010

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

### ETSI EN 301 489-1 v1.9.2 : 2011

*ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS  
(ERM); ELECTROMAGNETIC COMPATIBILITY (EMC) STANDARD FOR RADIO  
EQUIPMENT AND SERVICES; PART 1: COMMON TECHNICAL  
REQUIREMENTS*

### ETSI EN 301 489-17 v2.1.1 : 2009

*ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS  
(ERM); ELECTROMAGNETIC COMPATIBILITY (EMC) STANDARD FOR  
RADIO EQUIPMENT; PART 17: SPECIFIC CONDITIONS FOR 2,4 GHZ  
WIDEBAND TRANSMISSION SYSTEMS, 5 GHZ HIGH PERFORMANCE  
RLAN EQUIPMENT AND 5,8 GHZ BROADBAND DATA TRANSMITTING  
SYSTEMS*

**ETSI EN 300 328 v1.7.1 : 2006**

*ELECTROMAGNETIC COMPATIBILITY AND RADIO SPECTRUM MATTERS (ERM); WIDEBAND TRANSMISSION SYSTEMS; DATA TRANSMISSION EQUIPMENT OPERATING IN THE 2,4GHZ ISM BAND AND USING WIDE BAND MODULATION TECHNIQUES; HARMONIZED EN COVERING ESSENTIAL REQUIREMENTS UNDER ARTICLE 3.2 OF THE R&TTE DIRECTIVE*

**EN 60950-1:2006  
AMENDMENT A11:2009  
AMENDMENT A1: 2010  
AMENDMENT A12: 2011**

*INFORMATION TECHNOLOGY EQUIPMENT - SAFETY -  
PART 1 : GENERAL REQUIREMENTS*

**IEC60950-1:2005  
AMENDMENT A1: 2009**

*INFORMATION TECHNOLOGY EQUIPMENT - SAFETY -  
PART 1 : GENERAL REQUIREMENTS*

**EN50332-2: 2003**

*SOUND SYSTEM EQUIPMENT - HEADPHONES AND EARPHONES ASSOCIATED WITH PORTABLE AUDIO EQUIPMENT - MAXIMUM SOUND PRESSURE LEVEL MEASUREMENT METHODOLOGY AND LIMIT CONSIDERATIONS - PART 2: MATCHING OF SETS WITH HEADPHONES IF EITHER OR BOTH ARE OFFERED SEPARATELY*

**IEC 60825-1 :2007**

*SAFETY OF LASER PRODUCTS - PART 1: EQUIPMENT CLASSIFICATION AND REQUIREMENTS*

**EN62471:2008  
IEC62471: 2006**

*PHOTOBIOLOGICAL SAFETY OF LAMPS AND LAMP SYSTEM*

**EN50360: 2001**

*PRODUCT STANDARD TO DEMONSTRATE THE COMPLIANCE OF MOBILE PHONES WITH THE BASIC RESTRICTIONS RELATED TO HUMAN EXPOSURE TO ELECTROMAGNETIC FIELDS ( 300MHZ - 3GHZ )*

**EN62209-1: 2006**

*HUMAN EXPOSURE TO RADIO FREQUENCY FIELDS FROM HAND-HELD AND BODY-MOUNTED WIRELESS COMMUNICATION DEVICES. HUMAN MODELS, INSTRUMENTATION, AND PROCEDURES. PROCEDURE TO DETERMINE THE SPECIFIC ABSORPTION RATE (SAR) FOR HAND-HELD DEVICES USED IN CLOSE PROXIMITY TO THE EAR (FREQUENCY RANGE OF 300 MHZ TO 3 GHZ)*

**EN62209-2: 2010**

*HUMAN EXPOSURE TO RADIO FREQUENCY FIELDS FROM HAND-HELD AND BODY-MOUNTED WIRELESS COMMUNICATION DEVICES. HUMAN MODELS, INSTRUMENTATION, AND PROCEDURES. PROCEDURE TO DETERMINE THE SPECIFIC ABSORPTION RATE (SAR) FOR WIRELESS COMMUNICATION DEVICES USED IN CLOSE PROXIMITY TO THE HUMAN BODY (FREQUENCY RANGE OF 30 MHZ TO 6 GHZ)*

**EN50581:2012**

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

Plano, Texas Updated June, 2014

Lynn Lee  
Hardware Development Manager





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**Wasp Barcode Technologies S.r.l.**

1400 10th Street  
Plano, TX 75074  
Telephone: 866-547-9277  
Fax: 214-547-4101