

Winterm

Winterm Terminal

WT2930 User's Guide

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WT2930 User's Guide

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This product conforms to requirements of EN 55022 for Class B equipment.

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The use of shielded I/O cables is required when connecting this equipment to any and all optional peripheral or host devices. Failure to do so may cause interference and violate FCC and international regulations for electromagnetic interference.

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Overview

This guide provides the basic information needed to quickly install, set up, and operate the WT2930 Portable Windows Terminal.

The guide is organized as follows:

- ◆ Chapter 1, “Portable Windows Terminal Basic Operation,” describes what you need to know to install, set up, and operate the WT2930 Portable Windows Terminal.
- ◆ Chapter 2, “Software Upgrades,” describes how to install flash upgrade software.
- ◆ Chapter 3, “Portable Windows Terminal Maintenance,” lists safety notices, describes how to clean the WT2930 Portable Windows Terminal, and lists WT2930 Portable Windows Terminal specifications.
- ◆ Appendix A, “Options,” lists the options and accessories that can be used with your Portable Windows Terminal.
- ◆ An index follows at the end of this guide.

The WT2930 Portable Windows Terminal allows you to remotely access applications and data on your host or computer connected to an access point at a range of up to 500 feet indoors and up to 1000 feet outdoors. The screen is a touch-sensitive digitizer with a configurable on-screen keyboard. Using the pen stylus, you can input information and data without the need of an external keyboard.

Through a wireless connection to a host or access point, the WT2930 Portable Windows Terminal uses the computer’s processing power, data storage, and network connections wherever you go in the workplace.

Powered by a rechargeable, replaceable battery pack, the WT2930 Portable Windows Terminal can provide up to 3 hours of remote computing time. Using the extended battery pack, the WT2930 Portable Windows Terminal can provide up to 5 hours of remote computing time. When not in use, the WT2930 Portable Windows Terminal enters a low power state, which it can stay in up to 14 days.

❖ **Note** Battery life depends on usage conditions.

The initial setup requires that you install an RF LAN/ISA or RF LAN/PCMCIA wireless LAN adapter card into your host computer. The WT2930 Portable Windows Terminal can also be used with RF LAN/access points for even greater roaming range. Each of these wireless local bridges supplies an additional area of coverage, up to 500 feet indoors and up to 1000 feet outdoors. With wireless coverage areas created by networked RF LAN/access points, WT2930 Portable Windows Terminal can control a networked computer as you roam anywhere in the coverage area, throughout a building or campus.

Conventions

Table 1 lists the conventions used for terms, text formats, and symbols.

Table 1 Conventions

Convention	Description
<i>Italic</i>	Indicates a new term or book title.
Keycaps	Indicates a key on the keyboard (for example, Ctrl , Enter , F2).
Monospace	Indicates user input.
San Serif Compressed	Indicates screen display.
Simultaneous Keys	When two or more keys must be pressed simultaneously, a plus (+) appears between the key names. Press Ctrl + Shift Q means to press Ctrl and Shift at the same time, then release these keys and press Q .

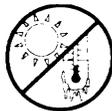
1 *Portable Windows Terminal Basic Operation*

Care and Handling

Read the following safety precautions carefully before installing or operating your Portable Windows Terminal.

Icon

Indicates



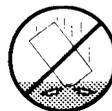
Extreme temperatures or humidity, such as strong direct sunlight or rainfall, will severely damage the Portable Windows Terminal. Keep it in a cool, dry environment. Let it warm (or cool) to room temperature before using it.



Keep the Portable Windows Terminal away from magnetic forces.



Keep the Portable Windows Terminal dry. Protect it with an optional carrying case.



When setting the Portable Windows Terminal down, place it gently and carefully. Dropping or bumping it can dislodge or damage internal components.



Check the Portable Windows Terminal for condensation. If condensation exists, allow the condensation to evaporate before powering on the Portable Windows Terminal.



Keep the Portable Windows Terminal away from dust, sand, and dirt.

Server Installation

Before you can use the Portable Windows Terminal, your server must have an RF LAN/ISA or RF LAN/PCMCIA wireless LAN adapter card installed, or you can use an RF LAN access point. If your server is already set up with an RF LAN wireless adapter card or an RF LAN access point is installed on the network, proceed. If you do not have an RF LAN wireless adapter card installed in your server or an RF LAN access point installed on the network, install them before continuing with server installation.

- ❖ **Note** Each Portable Windows Terminal comes standard with one server software license pack and serial number. The server software installation program prompts you for your server software pack serial number.
 - 1 From the File Manager on your server, select File, then Run.
 - 2 Type CD drive: D:\setup, then click OK.
- ❖ **Note** If you are not using the D: drive, type the drive you are using.
 - 3 Follow the installation instructions that appear on the computer's screen. When the software installation is complete, you are asked to reboot the server. Rebooting the server causes the server software to be loaded into memory.
 - 4 In the Program Manager, select:
 - a The Admin Tools group, then
 - b The WinStation Configuration applet.
 - 5 From the WinStation menu:
 - a Select New, then
 - b Select IPX from the Transport menu.
 - 6 Enter the number of configured WinStations desired.
 - 7 Go to the Control Panel group, and select Network.
 - 8 Verify that software IPX/SPX Compatible Transport has been loaded and configured.
 - 9 If the software is not loaded, now is the time to load and configure it.
- ❖ **Note** The server will not allow you to connect to more WinStations than your license allows.

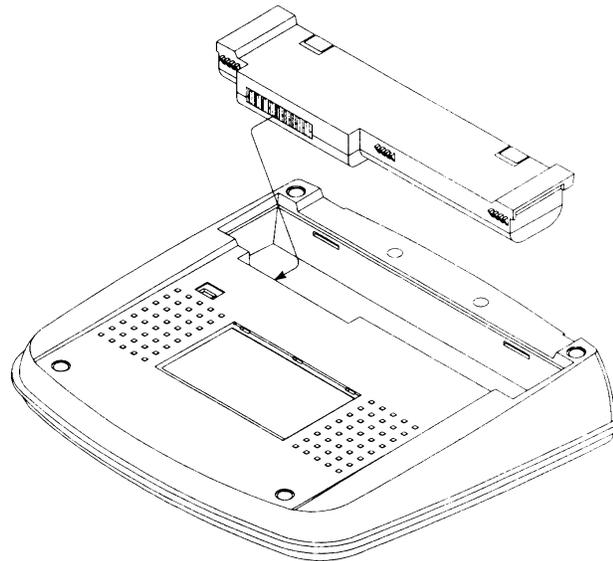
Server installation is now complete.

**Portable Windows
Terminal
Installation**

Perform the following steps to prepare the Portable Windows Terminal for operation.

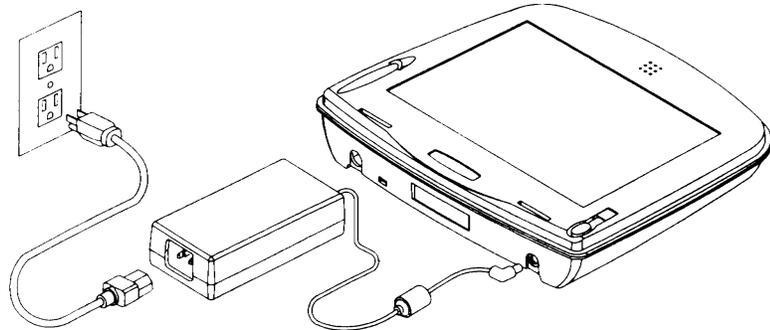
- 1 Install the battery pack into the Portable Windows Terminal (see Figure 1-1).

Figure 1-1 Battery Pack Installation

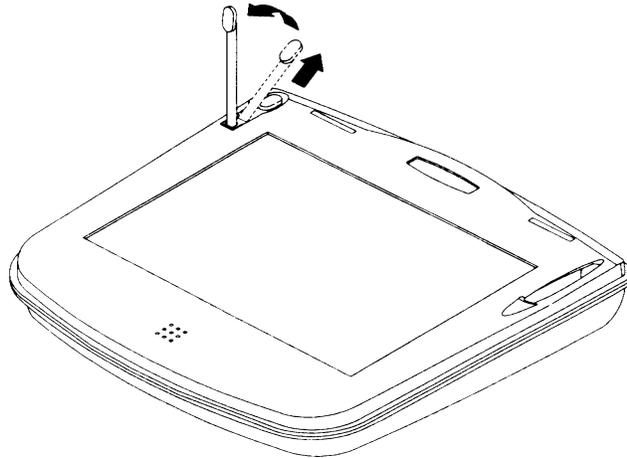


- 2 Connect the AC power adapter in the sequence shown in Figure 1-2. When the AC power adapter is connected, it begins charging the battery pack.

❖ **Note** Allow the battery pack to initially charge for 10 minutes before you power on the terminal for the first time. Leave the AC adapter connected until the battery pack is fully charged.

Figure 1-2 Charging the Battery Pack

- 3 Carefully extend the terminal antenna (approximately 2 inches), then lift it to an upright position.

Figure 1-3 Extending the Antenna

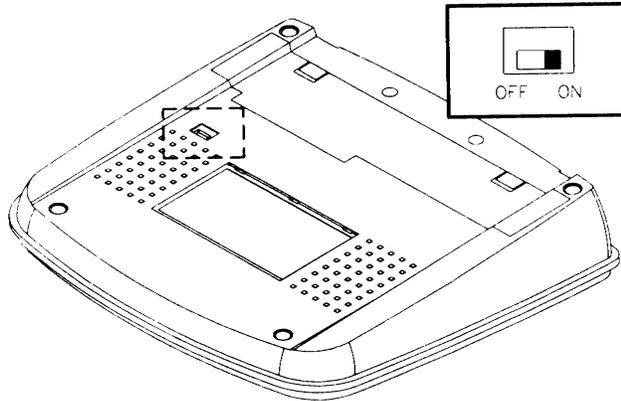
Connection and Logon

Perform the following steps to connect the terminal and to log on to the server.

- 1 Insert the pen stylus into the hole in the power switch, then slide the switch to the ON position.

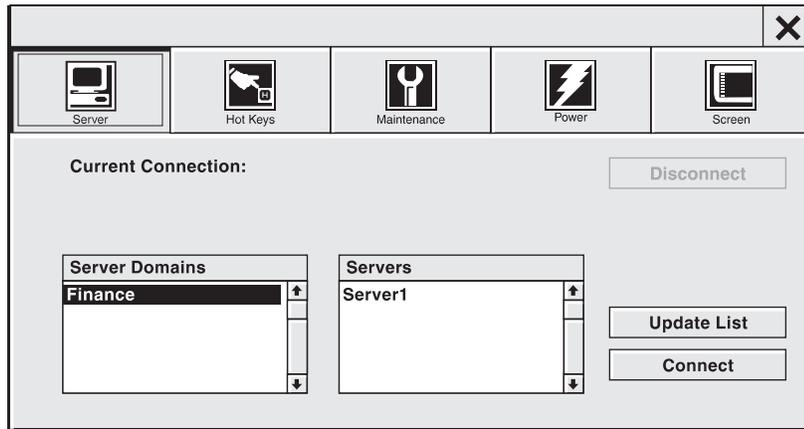
❖ **Note** The power switch is under the Portable Windows Terminal (see Figure 1-4 for location).

Figure 1-4 Power Switch



The terminal powers on and displays the Setup menu, as shown in Figure 1-5.

Figure 1-5 Setup Menu

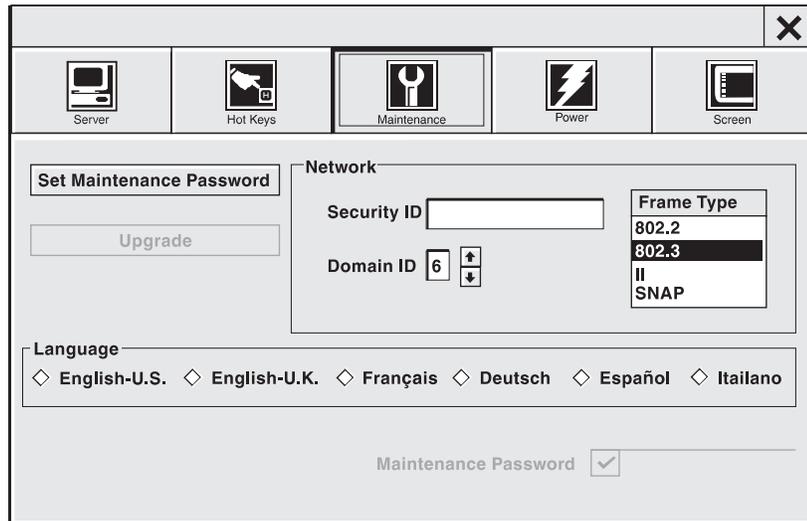


- 2 The Portable Windows Terminal sends out a signal and attempts to locate all available servers in the area. This may take a few moments. You are in range of a server when the radio waves are visible at the top of the radio tower icon in the system status display (located at the top of the Portable Windows Terminal).

When the Setup menu appears (see Figure 1-5) and the hour glass under Servers changes to a pointer (this may take a few moments), select the server domain and server.

- ❖ **Note** If you do not see the server name, perform steps 2a and 2b.
 - a Tap the Maintenance button.
 - b On the Maintenance menu, verify that the correct frame type is selected in the Frame Type selection menu (see Figure 1-6). If you change the frame type, you need to power off the terminal, then power on the terminal again.
- 3 Tap the Connect button. The message Attempting to connect to the requested Server appears.
- 4 When the logon menu appears, tap the keyboard icon to bring up the on-screen keyboard (see Table 1-2 for icon location).
- 5 Enter your name and password, then tap OK to log on.

Figure 1-6 Maintenance Screen



System Status Display

The System Status display is located on top of the Portable Windows Terminal. When the Portable Windows Terminal is powered on, the System Status display (see Table 1-1) provides up-to-date information on the status and operating condition of the Portable Windows Terminal.

Table 1-1 System Status Display Icons

Icon	System Status
	Active when the system is in sleep mode, blinks slowly when the Portable Windows Terminal is hibernating.
	Active when the Portable Windows Terminal is in range of a server. Blinking radio waves indicate that the signal is getting weak.
	No radio waves indicate that the Portable Windows Terminal is out of range and has lost connection.
	Active when the Portable Windows Terminal is busy transferring data to and from the server, or when performing internal processing.
	Bars in the battery indicate how much battery life remains. Each bar is approximately 20 percent of total charge. The bars flash when the terminal is charging the battery pack.
	Active when pen stylus taps are configured as a right mouse button. The default setting is left mouse button.
	Active when the speaker is enabled.

Hot Icons

The Portable Windows Terminal's screen is a touch-sensitive input device. You input data and make selections by gently touching the screen with the pen stylus or your finger tip. Use the hot icons (see Table 1-2) located on the left side of the screen to configure and operate the Portable Windows Terminal.

Table 1-2 Hot Icons

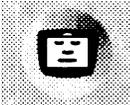
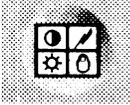
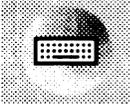
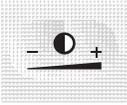
Icon	Indicates
	Selecting sleep mode places the Portable Windows Terminal in a low power state until you touch the screen again. Use this mode to conserve battery power.
	Use setup menus to configure your Portable Windows Terminal's operations and connect to your servers.
	The configurable on-screen keyboard allows you to input information and data directly without the need for an additional external keyboard.
	Cycles through the available video display palettes.
	Controls the internal speaker, on and off. The default setting is on.
	Lets you choose whether a pen stylus tap acts as left or right mouse button. The default setting is left mouse button.

Table 1-2 Hot Icons, Continued

Icon	Indicates
	Contrast control hot icon.
	Allows you to execute preprogrammed key strokes. For more information on programmed key strokes, see “Hot Keys.”
	Allows you to execute preprogramming key strokes. For more information on programming key strokes, see “Hot Keys.”

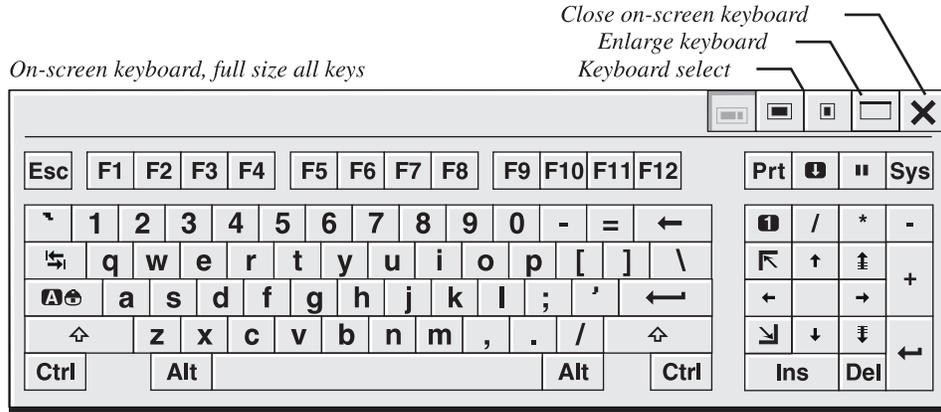
On-Screen Keyboard

Use the configurable on-screen keyboard to input data and information. There are several different styles and sizes of on-screen keyboards that you can use (see Figure 1-7).

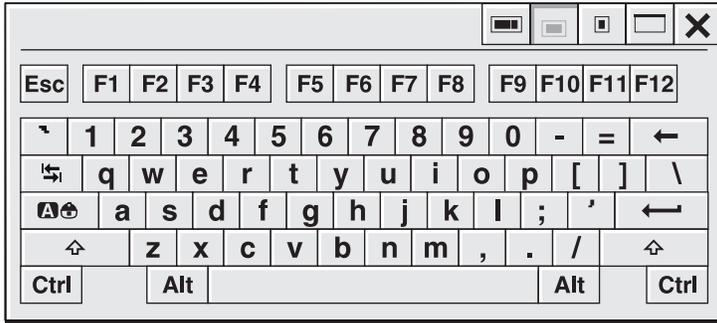
To use the on-screen keyboard in setup mode, tap on the input test box and the on-screen keyboard appears. If you only click on the on-screen keyboard icon, nothing happens. To select a particular keyboard that best suits your needs, tap one of the keyboard select buttons on top of the keyboard.

- ❖ **Note** You can move the on-screen keyboard around the screen. Press and hold the top of the on-screen keyboard, then drag it to a new location.

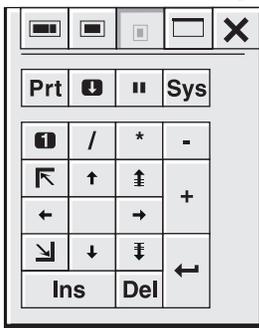
Figure 1-7 On-Screen Keyboard



On-screen keyboard, half size without keypad



On-screen keyboard, keypad only



❖ **Note** You can move the on-screen keyboard around the screen. Press and hold the top of the on-screen keyboard, then drag it to a new location.

Entering and Leaving Setup Mode

To enter the setup mode, tap the setup icon in the hot icon column. Once in setup mode, you can configure the Portable Windows Terminal for your specific operating requirements.

To exit from setup mode and return to the server, tap the X icon on the top right corner of the Setup menu (see Figure 1-8).

❖ **Note** The Portable Windows Terminal only exits setup if you are connected to a server.

Servers Menu

When you enter setup mode, the Server button has already been selected. The Servers menu shown in Figure 1-8 appears. The Servers menu allows you to select and connect to the server of your choice (you already did this when you logged on). Table 1-3 lists the functions of the available menu selections.

Figure 1-8 Servers Menu

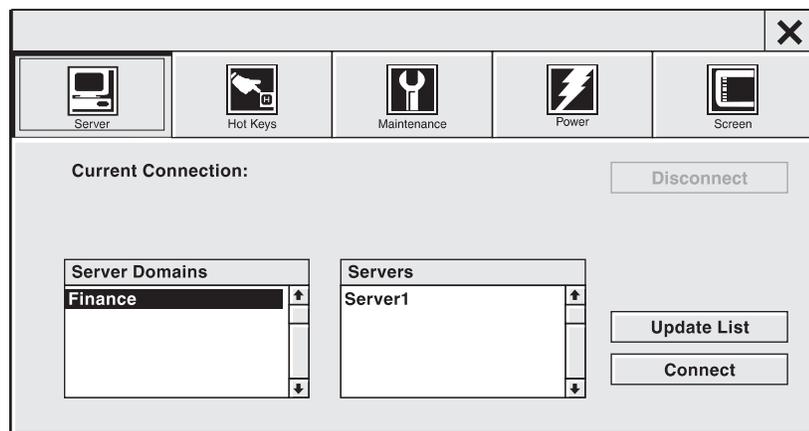
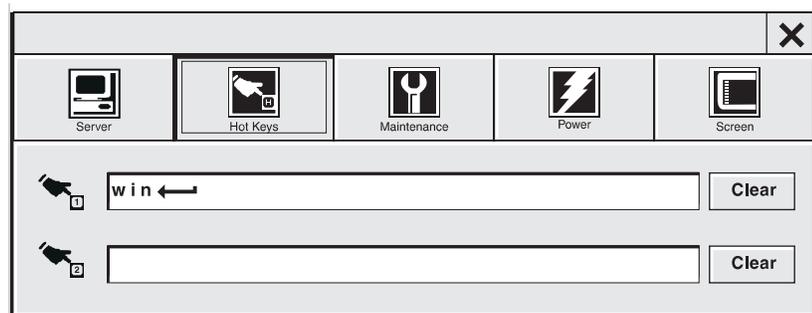


Table 1-3 Servers Menu Selections

Selection	Function
Server Domains	Lists the available server domains.
Servers	Lists the available servers within the selected server domain.
Disconnect	Disconnects from the specified server.
Update List	Displays the most recent list of servers and domains.
Connect	Connects your Portable Windows Terminal to the specified server.
X	To return to a connected server, tap the X in the upper right corner of the Setup menu or tap another button along the top of the Setup menu.

Hot Keys

Tap the Hot Key button. Two programmable hot keys allow you to program frequently used key commands. Select hot key 1 or 2 to program (see Figure 1-9), then type the key or key combination you wish to store. Valid key combinations are **Ctrl**, **Alt**, and **Shift** followed by a single keystroke. The hot key is programmed when you exit setup mode. These hot keys can be reprogrammed at any time.

Figure 1-9 Hot Keys

Maintenance Menu

Tap the Maintenance button. The Maintenance menu appears (shown in Figure 1-10). Table 1-4 lists the functions of the Maintenance menu.

Figure 1-10 Multiuser NT Maintenance Menu

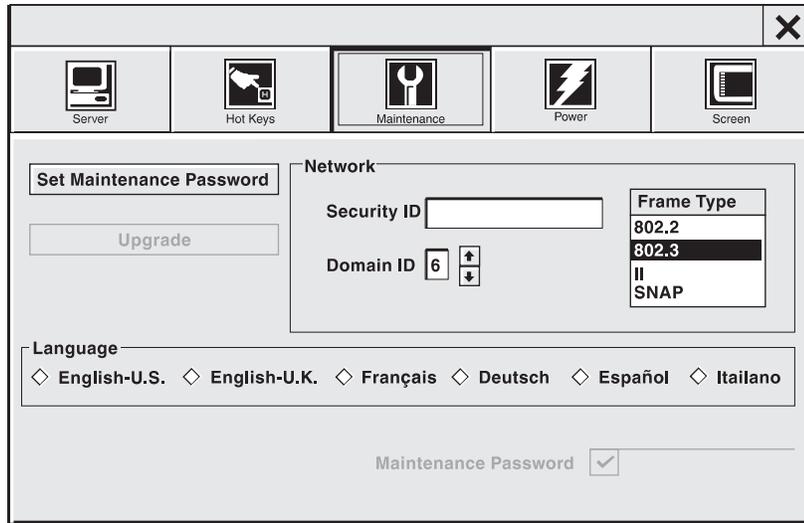


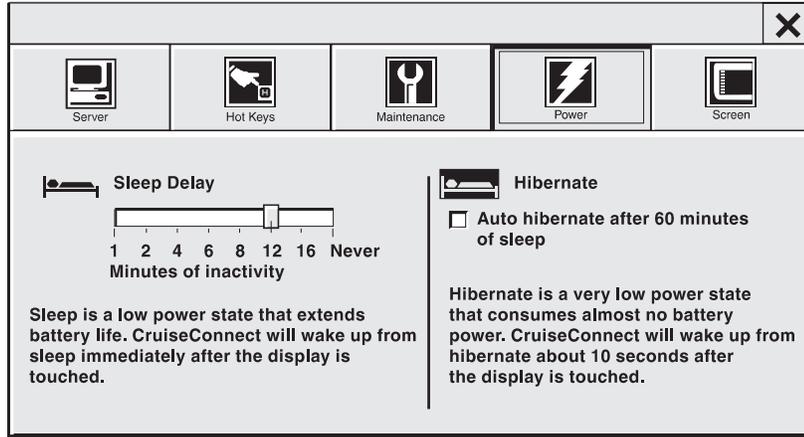
Table 1-4 Maintenance Menu Functions

Selection	Function
Set Maintenance Password	This button allows you to set password protection for the functions of the maintenance button.
Upgrade	Used to flash upgrade the Portable Windows Terminal.
Network	
Security ID	This field allows you to enter your network security ID.
Domain	The Domain button allows you to select a domain.
Frame Type	Allows you to select either 802.2, 802.3,II, or SNAP.
Language	Select a language from a list of languages. English is the default.
Maintenance Password	Type your password with the on-screen keyboard, and tap the checkmark to enter.

Power

Tap the Power button. The Sleep and Hibernate menu appears (see Figure 1-11).

Figure 1-11 Sleep and Hibernate Menu



The Portable Windows Terminal uses Sleep and Hibernate power states to extend its battery life:

Sleep Delay Sleep is a low power state that the Portable Windows Terminal enters after a predefined period of system inactivity, or by selecting the Sleep hot icon. (See Table 1-2.) Sleep turns off the display screen, but maintains the radio connection. Touch the screen or external keyboard to wake up the system.

Tap the time scale to set the sleep delay time.

Hibernate If you configure the Portable Windows Terminal to hibernate, it enters hibernate mode after being in sleep mode for more than 60 minutes, or by double tapping on the Sleep hot icon. Hibernate uses almost no battery power and turns off the radio connection. Touch the screen to wake up the system. The portable Windows terminal attempts to reestablish connection.

Tap the hibernate field to toggle the hibernate feature on or off.

Screen

You can calibrate the stylus pen and adjust the screen brightness and contrast from the Screen menu. Tap the Screen button. The Screen menu (shown in Figure 1-12) appears. Table 1-5 lists the functions of the Screen menu.

❖ **Note** Do not tap on a hot icon at this time.

Figure 1-12 Screen Menu

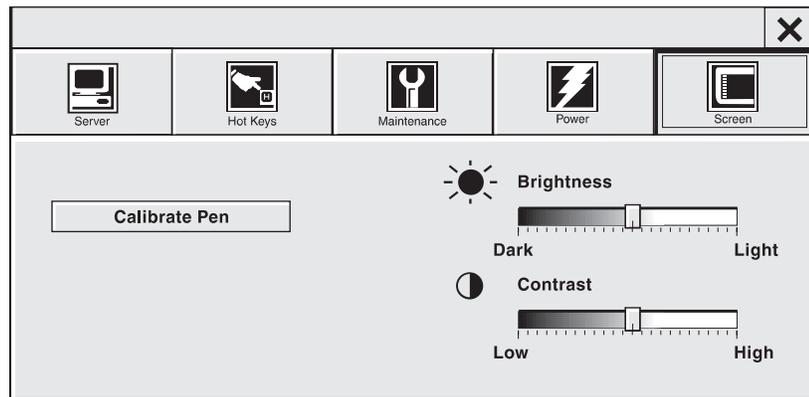


Table 1-5 Screen Menu Functions

Selection	Function
Stylus Pen	Tap the Calibrate Pen button. A new screen appears prompting you to tap the X in the upper left corner of the screen. When you have done that, you are prompted to tap the X in the lower right corner of the screen. The stylus pen is now calibrated, and you are returned to the Setup menu.
Brightness	Tap the Brightness scale to adjust the screen brightness.
Contrast	Tap the Contrast scale to adjust the screen contrast.
X	Tap the X in the upper right corner of the Setup menu to return to a connected server or tap another button along the top of the Setup menu.

Operating the Portable Windows Terminal

In an indoor environment, the Portable Windows Terminal can operate up to 500 feet from a server or access point. In an outdoor area, the Portable Windows Terminal may operate up to 1000 feet from a server or access point. A typical range is 200 to 300 feet and should be measured during RF LAN installation using the site survey tool included with Portable Windows Terminal.

After setting up your server or access point and Portable Windows Terminal, determine your own specific operating range for your location. With the Portable Windows Terminal operating, roam through your location. The antenna icon on the system status display indicates if you are going out of range (see Table 1-1). Radio waves displayed on the icon indicate a strong signal. Blinking radio waves indicate that the signal is getting weaker. No radio waves indicate you are out of range and have lost connection.

Charging Battery Packs

When you connect the Portable Windows Terminal to AC power, the battery pack begins charging. The battery pack charges with the Portable Windows Terminal powered on or off. A fully discharged battery pack charges in 1 hour; once it is fully charged, it operates the Portable Windows Terminal for 3 to 5 hours. The battery status indicator blinks when the battery is being charged and shows how much battery charge is left. Table 1-6 shows and explains the meanings of the battery charge icons.

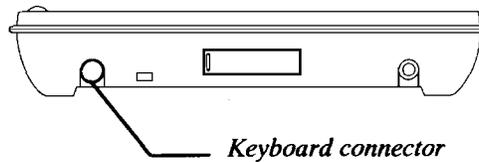
Table 1-6 Battery Charge Indications

Icon	Battery Pack Status
	Battery pack fully charged
	Battery pack power low
	Battery pack fully discharged (recharge battery pack)

- ❖ **Note** If battery power becomes too low, the Portable Windows Terminal enters hibernate mode. During hibernate mode no battery icon is displayed. If this happens, connect the AC power adapter and charge the battery pack. Touch the screen to wake up the system from hibernate mode, then check the battery status indicator.

Optional External Keyboard

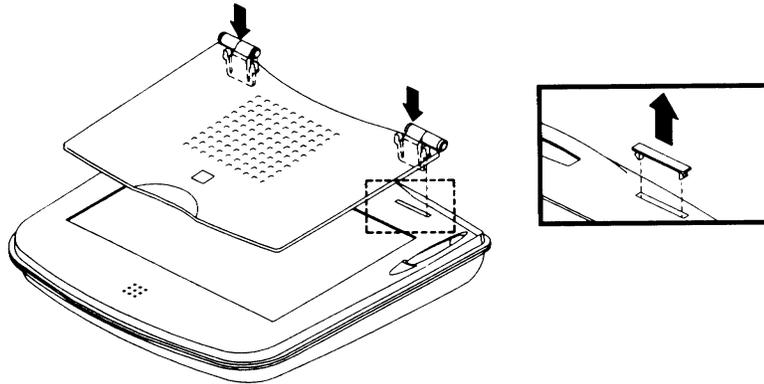
If you prefer to type on a full-size external keyboard, attach one to the connector on the back of the Portable Windows Terminal. You can plug an external keyboard in with the Portable Windows Terminal powered on or off.

Figure 1-13 Optional External Keyboard

Optional Cover Lid

You can protect your Portable Windows Terminal's screen by installing an optional cover lid.

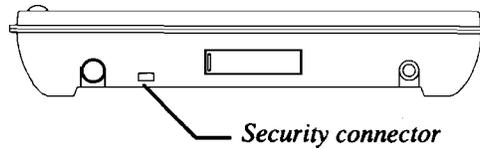
- 1 Remove the two-hinge cover blanks by pressing in on the sides, and then pulling out.
- 2 Press the new hinges and cover down into place.

Figure 1-14 Optional Cover Lid

Security Connector

To prevent unauthorized removal, connect a Kensington locking cable to the built-in security connector on the back of the Portable Windows Terminal.

Figure 1-15 Security Connector



You can personalize your Portable Windows Terminal by placing a business card into the clear plastic window, which is located on the bottom next to the battery pack.

2 Software Upgrades

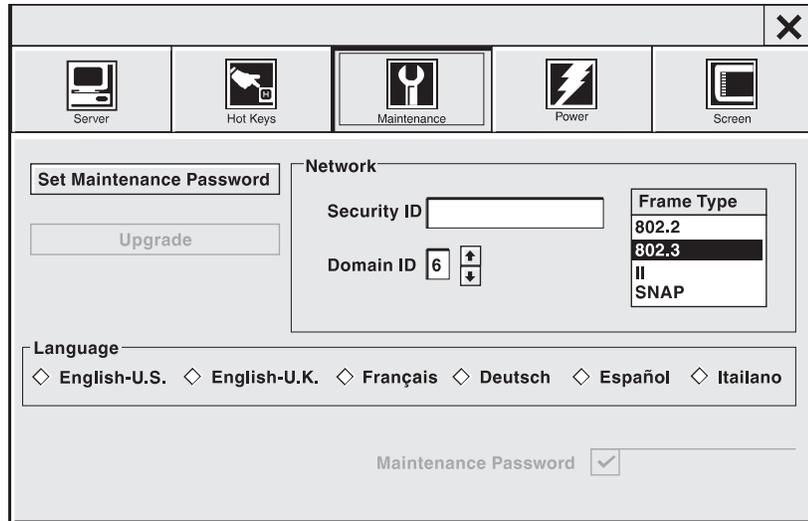
Installing

The software on the Portable Windows Terminal is stored in flash memory, and the process of updating flash memory is called flash upgrading. The Portable Windows Terminal's software can be upgraded with the use of a built-in flash upgrade program. The flash upgrade program is run from the Portable Windows Terminal's setup menu, under Maintenance (see Figure 1-10).

The server needs to have the flash software installed on it first. To install the flash software on the server, run *setup.exe* from the color subdirectory under the *flashupg.rad* directory on the Install CD.

- ❖ **Note** Do not interrupt the flash upgrade once it has started. To prevent power loss during the flash upgrade, fully charge your Portable Windows Terminal's battery pack, and leave the Portable Windows Terminal connected to an AC power source during the upgrade.
- 1 Make sure you have the latest version of the Portable Windows Terminal software installed on your server.
 - 2 Power on your Portable Windows Terminal, and establish communications with your server or access point. From the Portable Windows Terminal Setup menu, select Maintenance, then select the Upgrade button (see Figure 2-1).
 - 3 Follow the prompts that appear on the screen.

Figure 2-1 Flash Upgrade



Problems

If you encounter problems during the Portable Windows Terminal software upgrade, such as a power failure or interruption in the software installation, your Portable Windows Terminal might not operate correctly.

The flash upgrade disaster recovery procedure requires a special connector and cable, and should be done by a qualified Wyse service technician. Contact your authorized Wyse sales or service representative for more information regarding this procedure.

3 **Portable Windows Terminal Maintenance**

Safety Notices for All Users

This equipment has a 3-wire, grounded power cord. To prevent electrical hazards, do not remove or defeat the ground prong on the power cord. Replace the power cord if it gets damaged. Contact your dealer for an exact replacement.

In the U.S.A. and Canada, the power cord must be a UL-listed detachable power cord (in Canada, CSA-certified), type SV or SVT, 18 AWG, 3-conductor, provided with a molded-on NEMA type 515 P plug cap at one end and a molded-on cord connector body at the other end. The cord length must not exceed 15 feet (4.5 meters).

Outside the U.S.A. and Canada, the plug must be rated for 250 VAC, 10 amp minimum, and must display an international agency approval marking. The cord must be suitable for use in the end-user country. Consult your dealer or the local electrical authorities if you are unsure of the type of power cord to use in your country.

- ◆ **Caution** To reduce the risk of electric shock, which could cause personal injury, follow all safety notices.
- ❖ **Note** The power supply cord is intended to serve as the disconnect device. The socket outlet should be near the equipment and should be easily accessible.

Recommended Cleaning

The front surface of the touch screen (display) should be kept free of dirt, dust, fingerprints, or other materials that could degrade optical properties. Long term contact with abrasive materials will scratch the front surface and image quality will be detrimentally affected.

For best results, a clean damp *nonabrasive* cloth towel should be used with any commercially available *nonammonia* window cleaner. The window cleaning solution should be applied to the towel first rather than the surface of the touch screen.

Specifications

The following are Portable Windows Terminal specifications.

Display

- ◆ 8.5-inch back lit monochrome dual-scan 640 x 480 VGA LCD
 - ◆ Additional display area for 9 hot icons
 - ◆ 6-icon LCD status panel
-

I/O

- ◆ Integrated touch- or stylus-activated digitizer panel
 - ◆ 2-button mouse emulation via touch or stylus input
 - ◆ Stylus and integrated stylus holder
 - ◆ Configurable on-screen keyboard
 - ◆ Optional external compact keyboard
 - ◆ PS/2-style keyboard port
 - ◆ Built-in speaker
 - ◆ Expansion connector
 - ◆ Power connector
-

Wireless Communications

- ◆ Integrated spread-spectrum frequency-hopping radio
 - ◆ 100 mW transmit power
 - ◆ 1.6 Mbps data rate
 - ◆ 2.4-2.4835 GHz frequency band
 - ◆ Meets FCC Part 15 Class B licensing requirements
 - ◆ Coverage range: Up to 500 feet radius indoor; up to 1000 feet radius outdoor. (200 to 300 feet typical)
 - ◆ Unlimited effective range with roaming among RF LAN/Access Points
 - ◆ 3-level wireless connection status icon
-

Connection Options

- ◆ Direct wireless connection to desktop PC equipped with a RF LAN/ISA card
- ◆ Direct wireless connection to portable PC equipped with a RF LAN/PCMCIA card
- ◆ Wireless connection to networked PCs via RF LAN/access point

Security

- ◆ Digitally scrambled wireless communications
- ◆ User-definable security ID code for wireless access
- ◆ User-definable host access password
- ◆ Kensington security connector

Power

- ◆ Sleep and hibernate power-saving modes
- ◆ Immediate sleep hot icon
- ◆ NiMH rechargeable battery pack for 2–3 hour operation
- ◆ Optional extended life NiMH rechargeable battery pack for 3–5 hour operation

❖ **Note** Battery life depends on usage conditions.

Embedded Software

- ◆ Remote interface software for access to MS-DOS and Microsoft Windows applications on host PC or Cruise Connect Extensions to multiuser NT server.
- ◆ Configurable on-screen keyboard
- ◆ Setup window software
- ◆ Software upgrade capability

Processing

- ◆ Intelligent Display Coprocessor

Physical

- ◆ 10.6-inch W x 9.8-inch D x 1.0-inch H at front, sloping to 1.8-inch H at rear
- ◆ 3.2 pounds with standard battery pack
- ◆ 3.4 pounds with extended life battery pack
- ◆ Protective bumper
- ◆ Identification card holder

Temperature

- ◆ Operating: 41 to 104° F (5 to 40° C)
- ◆ Nonoperating: 14 to 122° F (-10 to 50° C)
- ◆ Gradient: 68° F (20° C)/Hr max

Humidity

- ◆ Operating: 15 to 80% noncondensing
- ◆ Nonoperating: 10 to 90% noncondensing
- ◆ Max wet bulb: 65.7° F (36.5° C)

Altitude

- ◆ Operating: -200 feet to 10,000 feet (-61 meters to 3,050 meters)
- ◆ Nonoperating: 40,000 feet max (12,192 meters max)

A Options

Options and Accessories

The following options and accessories can be used with your Portable Windows Terminal. Contact your sales representative for more information regarding pricing and availability.

- ◆ **Battery charging cradle** - Keep your extra batteries charged without having to install them into your Portable Windows Terminal.
- ◆ **External AC adapter** - Same AC adapter that comes with the Portable Windows Terminal. Keep it at your remote computing site or use it as a backup.
- ◆ **Rugged carrying case** - Use the optional carrying case to protect the Portable Windows Terminal, when carrying or transporting it.
- ◆ **External serial module** - Used for remote software upgrades and direct interface to your host computer.
- ◆ **External keyboard** - Allows you to input data and information without the need for the on-screen keyboard.
- ◆ **Standard battery pack** - Provides 2 to 3 hours of remote computing time. 1-hour recharge time.
- ◆ **High-capacity battery pack** - Provides 3 to 5 hours of remote computing time. 1.5-hour recharge time.
- ◆ **Pen stylus** - Replacement or backup pen for the original pen stylus that comes with the Portable Windows Terminal.
- ◆ **Cover lid** - Use the optional cover lid to protect the Portable Windows Terminal screen when carrying or transporting the Portable Windows Terminal.
- ◆ **Host software pack** - Additional host software license pack, 1 shipped standard.

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