



User's Guide

Sahara Slate PC® i400 Series 12.1" Tablet PC



This manual will help you get the most out of your new **Sahara Slate PC®**. If you are a new computer user, or just new to Tablet PCs, read through this manual carefully before first using your Sahara Slate PC. If after reading this manual you still have questions, visit us online at www.tabletkiosk.com for additional resources and information on using your Sahara Slate PC i400 Series Tablet PC.

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The specifications and information in this manual are subject to change without prior notice in order to improve reliability, design and/or function. In no way does this represent a commitment on the part of the manufacturer. The manufacturer assumes no responsibility for errors or omissions in this document.

In no event will the manufacturer be liable for direct, indirect, special, incidental, or consequential damages arising from the use, or inability to use, the Tablet PC or this documentation, even if advised of the possibility of such damages.

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If you have any questions regarding the Sahara Slate PC, or the information contained within this manual, please contact TabletKiosk at info@tabletkiosk.com.

Important Safety Instructions

For your own safety and the safety of your equipment, please follow these rules for the handling and care of your Sahara Slate PC. Keep this User's Manual for future reference by you and other users.

Never use sprays, liquids or cleaning detergents to clean the Sahara Slate PC. Use a micro fiber cloth to clean the touch screen. Avoid the use of tissue paper since tissue fibers can easily lodge between the touch screen and the top cover of the tablet.

Never pour liquids into any opening or directly on the Sahara Slate PC. This could result in fire or electrical shock.

Check that the voltage range of the power outlet is between 100V and 240V before connecting the Sahara Slate PC. Exceeding the maximum rated voltage may cause damage to the AC adapter or to the Sahara Slate PC. This could result in fire or electrical shock.

When the AC adapter is plugged into an electrical outlet, place the power cord so it will not be stepped on or walked on. Do not place objects over or on the power cord.

Use the Sahara Slate PC in a clean, dry, temperature controlled environment. Do not use the Sahara Slate PC in areas of high humidity, around water (for example: near a bathtub, washbowl, kitchen sink or laundry tub, in a wet basement or near a swimming pool) or outdoors while it is raining.

Never open or disassemble the Sahara Slate PC. For safety reasons, and to prevent permanent damage, the equipment should only be repaired by qualified service personnel.

Contact a qualified service center if any of the following issues should arise:

1. AC adapter, power cord or plug is damaged;
2. Liquid has been spilled into the Sahara Slate PC;
3. The Sahara Slate PC has been exposed to excessive moisture;
4. The Sahara Slate PC exhibits errors and/or does not function according to specifications;
5. The Sahara Slate PC has been dropped or otherwise physically damaged.

Caution

Lithium-Ion batteries can be dangerous. There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to state or local hazardous waste requirements.

Under no circumstances should the user attempt to disassemble the power supply. The power supply has no user-replaceable parts and its insides contain components that are electrically-charged with hazardous voltage levels that can cause serious personal injury. A defective power supply must be returned to your dealer.

Safety Notices for the Power Cord

This equipment has a 2 or 3-wire power cord. Replace the power cord if it becomes 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).

2-wire cord	SPT-2 18AWG
3-wire cord	SVT or SJT, 18 AWG, 3-conductor

The cord should be provided with a molded-on cord connector body at the other end. The cord length must not exceed 3 meters (9.8 feet).

Outside the U.S.A. and Canada, the plug must be rated for 250 VAC, 2.5 amp minimum, and must display an international agency approval marking. The cord must be suitable for use in the end-user's country. Consult your dealer or the local electrical authorities if you are unsure of the type of power cord to use in your country. Voltage changes occur automatically in the power supply.

Notice of FCC Compliance

a. Federal Communications Commission (FCC) Requirements, Part 15:

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

- ❖ Reorient or relocate the receiving antenna.
- ❖ Increase the separation between the equipment and the 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 technician for help.
- ❖ Use only shielded I/O cables to connect I/O devices to this equipment.

You are cautioned that any changes or modifications not expressly approved by TabletKiosk could void your authority to use the equipment.

b. Regulatory information / Disclaimers

This device must be installed and used in strict accordance with the instructions included in the user documentation provided with the product. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment. The manufacturer is not responsible for any radio or television interference caused by unauthorized modification of this device, or the substitution of the connecting cables and equipment other than the ones specified by manufacturer. It is the responsibility of the user to correct any interference caused by such unauthorized modification, substitution or attachment. The manufacturer and its authorized resellers or distributors will assume no liability for any damage or violation of government regulations arising from the failure to comply with these guidelines.

c. For portable devices without a co-location condition (eg. notebook pc)

FCC RF Radiation Exposure Statement:

1. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This device was tested for typical lap-held operations with the device contacted directly to the human body to the back side of the Tablet PC. To maintain compliance with FCC RF exposure compliance requirements, please follow operation instruction as documented in this manual.

The availability of some specific channels and/or operational frequency bands are country dependent and are firmware programmed at the factory to match the intended destination. The firmware setting is not accessible by the end user.

d. SAR Exposure

This device has been tested for compliance with FCC RF Exposure (SAR) limits in typical flat configurations.

In order to comply with SAR limits established in the ANSI C95.1 standards, it is recommended that the integrated antenna is positioned more than 1.5cm from your body or from nearby persons during extended periods of operation. If the antenna is positioned less than 1.5 cm (0.6 inches) from the user, it is recommended that the user limit the exposure time.

FCC Statement to Users for the FaxModem

Notice of FCC Compliance for the Fax/Modem

This equipment complies with Part 68 of the FCC rules. The FCC Registration Number and Ringer Equivalence Number for this equipment are located on a label at the bottom of this equipment. IF REQUESTED, THIS INFORMATION MUST BE GIVEN TO THE TELEPHONE COMPANY.

The REN helps to determine the number of devices you may connect to your telephone line while allowing all of those devices to ring when your telephone number is called. In most, but not all areas, the amount of devices connected to one line should not exceed five (5).

To know precisely how many devices you may connect to your line, as determined by the REN, you should contact your local telephone company to determine the maximum REN for your calling area.

If your telephone equipment causes harm to the telephone network, the telephone company may disconnect your service temporarily. They may notify you in advance, but if advance notice is not practical, you will be informed of your right to file a complaint with the FCC.

Your telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance and given the opportunity to maintain uninterrupted telephone service.

The telephone company may ask you to disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning. This equipment may not be used on coin service provided by the telephone company.

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or an electronic device to send any message via a telephone facsimile machine unless such message clearly contains in a margin at the top or bottom of each transmitted page or on the first page of the transmission the following information:

- ❖ The date and time of transmission
- ❖ Identification of either business, business entity or individual sending the message;
- ❖ Telephone number of either the sending machine, business entity or individual.

In order to program this information into your fax/modem, please refer to the appropriate instructions in your fax/modem manual.

Note-TNV Safety Caution:

To reduce the risk of fire, use only No. 26 AWG or larger UL Listed or CSA Certified Telecommunication line cord. Avoid using a telephone (other than a cordless type) during an

electrical storm. There may be a remote risk of electric shock from lightning. Do not use the telephone to report a gas leak in the vicinity of the leak.

Canadian EMI Compliance Statement

This Class B digital apparatus meets all requirements of the Canadian Interference - Causing Equipment Regulations.

IC Warning statement:

a. WLAN

“To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.”

b. For LPD

“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 Canada RSS-210.

The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity (DoC) indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

European Union CE Marking Declaration

This product has been tested and found to comply with the EMC requirement subject to the EU directive for CE marking.

Sahara Tablet PC

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Sahara SLATE PC[®]

Chapter 01

Getting Started

Your Sahara Slate PC was designed to allow you to be up and running as quickly as possible. Because the Sahara Slate PC ships to various countries around the world, set-up may vary slightly depending on where you are located.

If you have any questions after reading this manual, please visit our website at www.tabletkiosk.com for more information or to submit a support request.

What's in the Box

Your Sahara Slate PC ¹ should come securely packaged in its shipping carton along with the items listed below ². Please contact your dealer immediately if you find that anything is missing or damaged.

1. Power Cord and AC Adapter
2. Ultrafiber Cleaning Cloth
3. Sahara Slate PC Neoprene Slip Case
4. Simple Stand
5. This User's Manual and Quick Start Guide
6. Applicable Operating System Quick Start Guide ³
7. Applicable System Restore Disc ⁴
8. Standard Lithium-Ion Battery Pack

- ¹ There are three models in the Sahara Slate PC i400 Series: i412T / i440T / i440D. Please check to make sure you have received the correct model.
- ² Contents of the packaging may change without prior notice. Please check our website at www.tabletkiosk.com for the most up-to-date list if your package contents vary from this list.
- ³ Please be sure to check that the Quick Start Guide matches the Operating System (OS) preloaded on your Sahara Slate PC. There will not be a Quick Start Guide included if you ordered your Tablet PC with openSUSE Linux.
- ⁴ Please be sure to check that the System Restore Disc matches the Operating System (OS) preloaded on your Sahara Slate PC. There will not be a System Restore Disc included if you ordered your Tablet PC without an OS option.

Setting Up Your Sahara Slate PC

Please read the following steps to begin using your new Tablet PC as quickly and easily as possible.

- 1.** Inserting the Battery Pack if your Tablet PC shipped from the dealer without a pre-inserted battery.
- 2.** Connecting the Sahara Slate PC to an external power source.
- 3.** Connecting applicable peripherals and networking cables.
- 4.** Powering on the Sahara Slate PC
- 5.** Completing the Operating System Installation
- 6.** Using the Stylus Pen

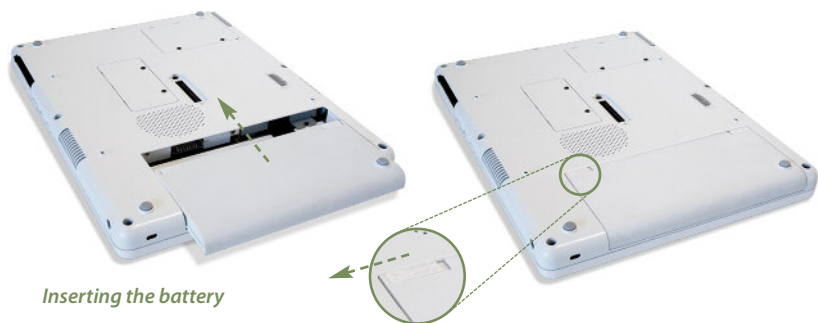
Step 1: Inserting the Battery Pack

Turn the tablet over and place it, screen down on a solid, clean, flat surface.

CAUTION: When turning over the Sahara Slate PC, be careful not to place it on a surface that could scratch or damage the screen. You can place the included slip case on the surface before carefully setting the computer down to protect the screen.

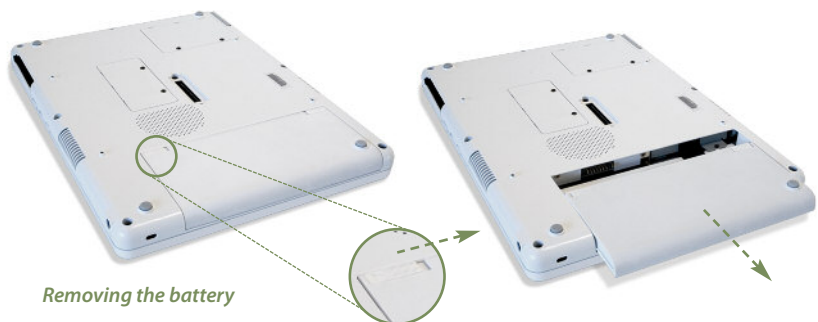
Align the battery into the battery compartment and then slide it into the computer until it clicks securely into place.

Slide the battery-locking tab (the tab closest to the top of the tablet) in the opposite direction of the unlocking arrow engraved on the tab itself. Once the locking tab clicks into position, the battery should be securely seated.



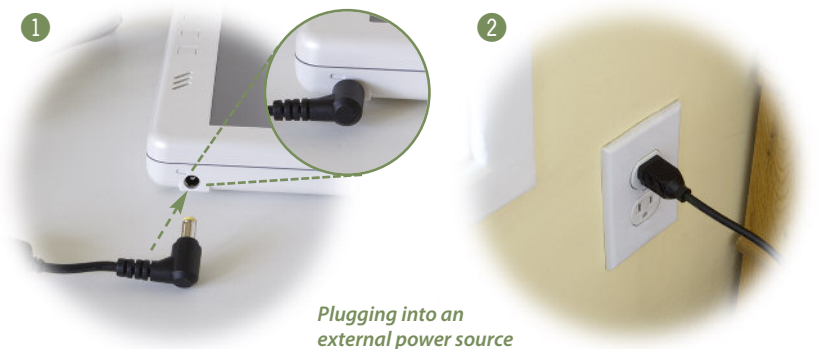
To Remove the Battery Pack

Turn off the Sahara Slate PC and remove the power cord from the “DC Power In” port. Turn over the tablet and place it on a solid, clean flat surface. Slide the locking tab in the direction of the arrow engraved on the tab to set it in the unlock position. Use your other hand to slide the battery release latch in the direction of the arrow engraved on the tab and hold it there. Use both hands to carefully slide the battery out of the bay.



Step 2: Connecting the Tablet PC to an External Power Source

Locate the AC adapter and the power cord. Plug the power cord securely into the AC adapter. Plug the AC adapter's connection cable into the "DC Power In" port on the top of the tablet. Once the adapter plug is securely in place, plug the power cord into an external power socket.



Plugging into an external power source

NOTE: When you first connect the tablet into an external power source, the battery charge indicator will begin to glow amber. When the battery is fully charged the indicator will turn green. See the section entitled *Battery Care* for tips on maximizing battery life and performance.

Step 3: Connecting Applicable Peripherals and Networking Cables

If you would like to use any external peripheral with the tablet (i.e. USB mouse, USB keyboard, etc.) or are planning to connect to the Internet and/or a corporate LAN using a wired connection (RJ45) as opposed to wirelessly, connect the external peripheral now. See the section entitled *Touring Your Sahara Slate PC*, to identify which ports to use.

IMPORTANT: When you power on the tablet for the first time, you will need to have an external USB keyboard connected in order to complete the Windows XP Professional installation routine. An

external USB keyboard is not required for completing the installation of Windows XP Tablet Edition or Windows Vista as they include an on-screen keyboard.

Step 4: Powering on the Sahara Slate PC

Locate the three power switches on the top on the tablet. The  switch (closest to the PCMCIA expansion slot) is the computer's main power toggle. Slide it away from the PCMCIA slot and hold it there until it emits a blue glow (about 1-2 seconds) and then release it. The Sahara Slate PC will now boot up.



Powering on the Sahara Slate PC.

Slide and hold the toggle switch until it lights up blue.

Step 5: Completing the Operating System Installation

When your system powers on for the first time, Windows will have a few questions for you to answer in order to localize your installation.

NOTE: You'll need a USB keyboard connected to your system in order to answer some of the questions that require text input if your Sahara Slate PC came with Windows XP Professional or Windows Vista. If your Sahara Slate PC came with Windows XP Tablet Edition, you can use the stylus pen to input the required information via the on-screen keyboard.

Refer to your operating system's manual for information on any of the questions you are unsure how to answer.

Step 6: Using the Stylus Pen

Unlike a standard laptop or desktop PC, standard navigational activities on a Tablet PC are completed using the stylus pen, or even your fingers if using the touch screen. The screen will react to the pen differently depending on whether you are using the Touch Screen mode or the Active Digitizer mode.

Touch Screen mode

Navigating with a touch screen is different from navigating with a mouse. The pen will interact with the computer whenever you touch it to the screen.

Hold the stylus pen as if you were writing with a standard pen. Instead of sliding the pen around the screen, just tap on what you want to interact with. Sliding the pen while lightly touching the tip to the screen will move the on-screen pointer around as if you were using a mouse and holding down the left mouse button. In other words, you would be performing what is known as a drag operation.

Also, remember that since the screen is sensitive to the touch, resting your hand on the screen while using the pen might make the pointer react unpredictably.

TIP: When trying to select or activate something on the screen with the stylus pen, pay attention to the position of the pointer icon instead of the tip of the pen.

Tapping lightly on the screen will perform a standard left mouse button click. Holding the tip of the pen against the screen without moving it for about a second or so will perform a standard right mouse button click.

Active Digitizer mode (i440D only)

The i440D should default to the active digitizer mode when powered on for the first time. In this mode, the pen doesn't even need to touch the screen to activate and move the pointer.

NOTE: To change screen modes from touch screen to active digitizer, or vice-versa, simply press the Screen Mode Toggle button. This can be done at any time as the mode switch is live. See the section entitled *Touring Your Sahara Slate PC* for the location of the Screen Mode Toggle button.

Hold the stylus pen as if you were writing with a standard pen. Place the tip of the stylus just above the screen and move it around. The pointer should follow the tip of the pen. In this mode your hand may rest on the screen, since this will not affect the behavior of the pointer.

TIP: When trying to select or activate something on the screen with the stylus pen, pay attention to the position of the pointer icon instead of the tip of the pen.

Tapping lightly on the screen with the tip of the stylus will perform a standard left mouse click. If you want to perform a right mouse click, press and hold down the tip of the stylus lightly on the screen. In a moment, an animated icon will draw around the pointer. Lift the stylus from the screen to complete the button press.

A tap and hold is the equivalent of a right-button click using a mouse.



NOTE: Animated cues, or floating tablet tips, will only appear in the Active Digitizer mode if your Sahara Slate PC is running Windows XP Tablet PC Edition or Windows Vista.

Sahara

Chapter 02

Touring Your Sahara Slate PC

The Sahara Slate PC features a number of physical characteristics designed to help you work as efficiently as possible. Take a moment to familiarize yourself with the controls and Input/Output (I/O) ports on the faces and sides of the computer. Understanding the layout of the system will help you use your Sahara Slate PC more efficiently in the field or on the go.



While the switches and I/O ports are identical on all models of the Sahara Slate PC i400 series, the top function button to the right of the display is preprogrammed to toggle screen modes on the i440D only. It is user-programmable on the i412T and i440T.

Front View



1. **Battery Charge Indicator**

Glows amber when the battery is charging and changes to green when the battery is fully charged.

2. **Hard Disk Drive Activity Light**

Glows blue when the hard drive is being accessed

3. **Built-in Stereo Speakers**

To listen to music, movies, games and more.

4. **Secure Attention Sequence (SAS)**

A computer without an attached keyboard must support a hardware mechanism to generate the SAS which is also known as "CTRL+ALT+DEL" or "CAD".

5. **Screen Rotation**

This button will rotate the screen counter-clockwise 90° to a portrait orientation and then back to the original landscape orientation.

6. Volume Up

This button will increase the volume of sound emitted from the computer's internal speakers and headphone port.

7. Volume Down

This button will increase the volume of sound emitted from the computer's internal speakers and headphone port.

8. Screen Mode Toggle Button (i440D only)

This button will toggle the i440D's input screen between the active digitizer and resistive touch screen modes.

8. User Programmable Function Button (i412T & i440T)

This button can be programmed by the user.

9. User Programmable Function Button

This button can be programmed by the user.

10. User Programmable Function Button

This button can be programmed by the user.

11. User Programmable Function Button

This button can be programmed by the user.

12. Finger Print Reader

Is used to secure your system from unauthorized users. See *Securing Your Sahara Slate PC* for more information and how to set up biometric security.

13. Dual Digital Microphone Array

Microphone array records audio with higher fidelity for more accurate voice recognition.

Top View



1. **DC Power In Jack**

Plug the AC adapter's connection cable into this port to provide power to the computer.

2. **Ventilation Port**

Fan exhaust port for expelling hot air from the interior of the Tablet PC. Do not block to prevent over heating.

3. **Wireless Networking Power Toggle**

Slide the toggle switch to activate the wireless networking adapter's transmitter. The switch will glow blue when powered on. Slide switch back to turn off wireless networking.

Note: When not connected to a wireless network, turn off the wireless transmitter to conserve battery power.

4. **Bluetooth Power Toggle**

Slide the toggle switch to activate the Bluetooth wireless transmitter. The switch will glow blue when powered on. Slide switch back to turn off Bluetooth.

Note: When not actively using a Bluetooth peripheral, turn the Bluetooth transmitter off to conserve battery power.

5. *System Power/Resume Toggle*

Slide this switch and hold for 1-2 seconds to power on the computer or to resume normal operation if the computer is in Suspend Mode. Slide and holding for 4-6 seconds to immediately turn off the computer.

Note: Using this switch to power off the computer is not recommended unless the computer has stopped responding to user input as there is no time for the OS to shut down normally, and as a result, data loss may occur.

6. *PC Card (PCMCIA) Slot*

Expansion port allows the connection of external peripherals that can extend the functionality of the computer. Compatible with standard Type I and Type II 32-bit and 16-bit PCMCIA cards.

7. *PC Card Eject Button*

Use to eject a connected PC Card from the PC Card slot.

Left Side View



1. **VGA Port**

This port enables you to connect the Sahara Slate PC to any external display monitor that uses a cable with a standard male Sub-D (HD15) connector. It supports using the external monitor in clone, span and dual view modes. Great for driving an LCD or Plasma HDTV with a PC-In (VGA) port.

2. **LAN Port**

Use this RJ45 jack to access a local area network or high-speed Internet connection with a standard, twisted-pair Ethernet cable. Supports 10/100/1000 Mbps protocols.

3. **Modem Port**

Use this RJ11 jack to connect the internal 56K voice/data/fax modem to your phone line using a standard telephone cable.

4. **IEEE1394 (Firewire) Port**

A fast external bus standard that supports isochronous data transfer rates of up to 400 Mbps (400 million bits per second). It is ideal for devices that need to transfer high levels of data in real-time, such as video devices and hard drives. The IEEE1394 port also supports both Plug-and-Play and hot plugging and can supply power to lower power peripheral devices.

5. *Two USB 2.0 Ports*

High speed (480 Mbs) Universal Serial Bus 2.0 ports for connecting peripherals such as a mouse, keyboard, wedge reader, CD/DVD drive, printer, digital camera and more. Backward compatible with USB 1.1 devices.

6. *eSATA (External Serial Advanced Technology Attachment) Port*

With transfer speeds reaching three times that of USB 2.0 or IEEE1394, eSATA is an excellent choice for external disk storage. Supports both SATA II (300 Mbps) and SATA I (150 Mbps) hard disk drives.

7. *Headphone / Audio Out*

Stereo audio port for connecting headphones, external speakers or other audio devices.

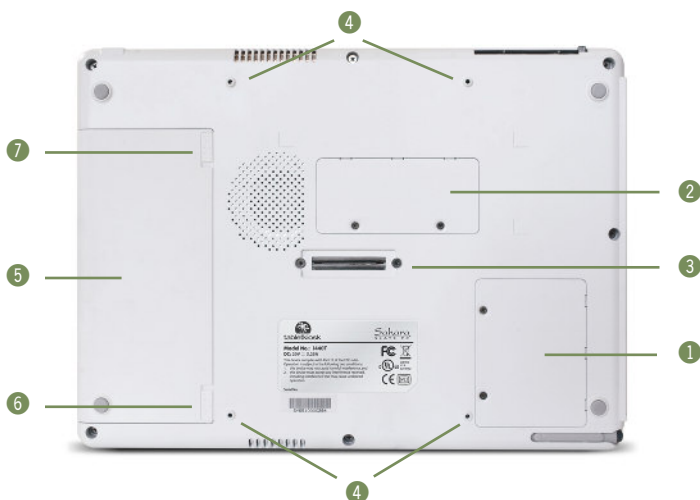
8. *Audio In*

Used to input stereo audio from external devices such as a microphone, radio or tape player.

9. *Stylus Pen and Holder*

Secures the stylus pen to the Sahara Slate PC.

Back View



1. **Wireless Networking Card Expansion Slot**

Expansion slot contains wireless networking adapter. User upgradeable.

2. **RAM (Memory) Compartment**

Allows access to the user-upgradeable memory slot. Primary RAM module resides on the other side of the motherboard and is NOT user-upgradeable.

3. **Docking Connector**

This connector will allow the use of an optional VESA mounting plate, docking cradle and other optional expansion devices. Power pass-thru is supported.

4. **VESA Mounting Screw Holders**

Used to allow mounting with 75mm – 100mm VESA compatible attachments.

5. *Battery*

The Sahara Slate PC comes equipped with a standard 6-cell lithium-ion battery pack that can be removed by the user and replaced.

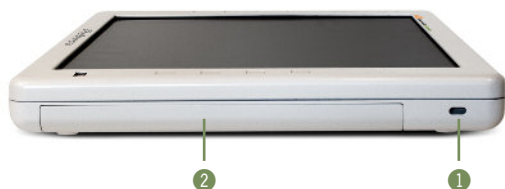
6. *Battery Latch*

Used along with the battery locking tab to release the battery from its bay for removal.

7. *Battery Locking Tab*

Allows the battery to be locked into place during use to prevent accidental removal and subsequent power loss.

Right View



1. ***Anti-Theft Kensington Lock***

Use with the locking device (sold separately) to attach the Sahara Slate PC to a desk, table, kiosk, or other stationary apparatus to help prevent the computer from being stolen.

2. ***Battery***

The Sahara Slate PC comes equipped with a standard 6-cell lithium-ion battery pack that can be removed by the user and replaced.

Bottom View



1. **Docking Cradle Support Grooves**

Serve as support and alignment guides when using the Sahara Slate PC with the optional Docking Cradle.

2. **Ventilation Port**

Cooling fan intake port. Do not block to help prevent overheating.

Sahara SLATE PC®

Chapter 03

Battery Usage and Care

Depending on your system's configuration and your application usage, a fully charged battery should allow you to run your Sahara Slate PC for 3 to 4 hours.

Operations that will significantly reduce battery life include, but are not limited to, the following:

1. Using external bus-powered optical, floppy and hard disk drives
2. Using wireless communications devices, including the internal wireless networking card, Bluetooth adapter, PCMCIA Cards, or USB devices.
3. Using high-brightness display settings, 3D screen savers, or other computationally-intensive programs such as games, media players and 3D graphics applications.
4. Running the computer in maximum performance mode.
5. Using the computer in overly-hot environmental conditions.

Using the Battery for the First Time

Before using the computer on battery power for the first time, the battery should be charged for at least four hours. Also, the Smart Battery IC within the battery pack should be calibrated in order to get an accurate reporting of the remaining battery life.

To calibrate the battery pack, follow these steps:

1. Turn the computer off. Connect the AC adapter and let the battery fully recharge.
2. Disconnect the AC adapter and power on the computer. Let the battery run down until it is so low that the battery charge light turns red and the system automatically enters the Suspend mode.
3. Reconnect the AC adapter, let the battery fully recharge and then run the computer with the external power still connected for at least five (5) continuous hours.

The battery pack should now be properly calibrated. If you find that battery life doesn't correspond to the battery status as reported by your operating system, repeat steps 2 -3 again.

If after performing a calibration for a second time you still find you are having a problem with the battery life, contact your dealer and arrange for a replacement. The battery may be defective.

In general, using the battery until the "Battery Low" warning indicator appears and then fully recharging the battery (full discharge/charge cycle) will ensure the accuracy of the battery status gauge.

If you find you are using the computer almost exclusively attached to an external power source, calibrating at least once a month is recommended.

Charging the Battery Under Typical Conditions

When you connect the computer to an electrical outlet, the Smart Battery IC in the battery pack checks the battery's charge and temperature. If charging is necessary, the battery indicator on the front of the Sahara Slate PC will glow amber and the AC adapter will automatically charge the battery.

When fully charged, the battery indicator will change to green and the battery's charge will be maintained while connected to the external power source. When the computer is disconnected from the electrical outlet, the battery indicator will turn off.

NOTE: The time to fully recharge the battery is approximately 90 – 100 minutes when the computer is powered off. The time to fully recharge the battery when the computer is in use varies according to the power requirements of the operations that the computer is performing while charging.

Problems Charging the Battery

Environmental conditions can affect the ability of the computer to charge the battery. If the battery is too hot from either being used in your computer or being exposed to an overly hot environment, the battery may not charge when you connect the computer to an electrical outlet.

If this occurs, disconnect the computer from the electrical outlet and allow it and the battery to cool to room temperature. Then reconnect the computer to an electrical outlet to continue charging the battery.

Battery Status

Both Windows XP and Windows Vista have an applet in the Control Panel that will display an icon in the Windows taskbar indicating when the computer is running on battery power or is attached to the AC adapter.

This applet also displays a meter that indicates approximately how much of a charge is remaining in the battery.

Low Battery Warnings

A beeping sound will be heard once to alert you to a "Battery Low" status. The Battery LED indicator will begin to flash red.

When the battery's power level drops to a "Battery Very Low" status the beeping sound will be heard every second.

When this continuous beeping occurs, your battery has only approximately one to two minutes of charge left. You should save what you are working on and plug in the AC power adapter to avoid potential data loss.

When there is only one minute of battery charge remaining, the computer will suspend its current state to the hard drive and power off. Plug in the AC adapter and turn the computer back on to resume your work.

About Battery Pack Usage

Over time, even with proper care, battery performance (the time the battery can operate the computer before needing to be recharged) will decrease. Depending on how often the battery is used, how many times it has been charged and the conditions under which it is used, you may need to purchase a new battery during the life of your computer

IMPORTANT: To avoid damage, only use replacement batteries recommended by TabletKiosk. To prevent the loss of data when the system loses power, do not remove the battery pack while the power is on unless attached to an external power source.

NOTE: Do not dispose of batteries with household waste. When your battery no longer holds a charge, call your local waste disposal or environmental agency for advice on disposing of a lithium-ion battery.

Real Time Clock Battery

In order to maintain certain system information while the power is off, the motherboard contains a small built-in battery pack that constantly supplies power to the system.

If the computer is left without a power source for long periods of time, this battery can be exhausted and system information will

be lost. This will not affect any of your data stored on the computer's hard drive, but rather the settings in the BIOS that tell the computer how to operate. It is recommended, therefore, that if you plan to store the computer for a long time you periodically attach the battery pack, plug in the computer to an external power source and allow the battery to recharge.

If you find out, after removing the computer from storage, that you have lost this system information, by receiving a BIOS error when you boot up for the first time, contact your dealer or visit TabletKiosk's website at www.tabletkiosk.com to obtain the proper BIOS settings.

Storing a Battery

When storing your computer for an extended period of time, it is recommended that you remove the battery pack and store it in a dry, cool location. Since a battery discharges during prolonged storage, you should fully recharge the battery before you use it again.

Using Your Sahara Slate PC with Windows XP

While your Sahara Slate PC is a power mobile computer capable of accomplishing all the same tasks as a laptop or a desktop PC, there are some differences in the way that you interact with Windows using a stylus pen as opposed to a mouse and keyboard. This chapter contains tips and details to get the most from your Sahara Slate PC while using Windows XP.

Windows XP Professional Edition or Tablet PC Edition?

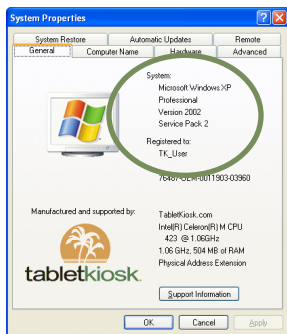
The two different editions of Windows XP that can come preinstalled on the Sahara Slate PC are the Professional and Tablet PC Editions. Both editions are based on the same operating core, and thus can run all the same applications. Tablet PC Edition, however, has certain additional features that are designed specifically to enhance the Tablet PC user's day-to-day Windows computing experience.

Be sure to read the booklet entitled "**Windows XP Tablet PC Edition 2005 Start Here**" that came with your Sahara Slate PC for more information about these exclusive features.

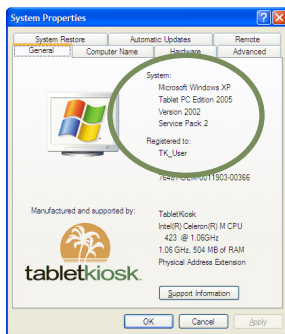
You should know which edition of Windows XP you are running to avoid any confusion while reading this chapter. To find out which edition you are currently running on your Sahara Slate PC:

1. Tap on the START button with your stylus pen to open the START Menu.

2. Tap on “My Computer” to open a window showing the contents of your computer.
3. In the left pane of the window, tap on the first entry that reads “View system information” to open the “System Properties” window.
4. In the “General” tab under the “System” subsection you will see the edition and version of Windows XP that you are currently running.



Windows XP Professional



Windows XP Tablet PC Edition

It is also important to note that some of the context-sensitive features of Windows XP Tablet PC Edition, such as the floating Input panel icon, will only function when your Sahara Slate PC i440D is in Active Digitizer mode. You may switch between screen input modes simply by pressing the screen mode toggle button. See the section entitled *Touring Your Sahara Slate PC* to see where the screen toggle button is located.

Navigating with the Stylus Pen

With a Tablet PC, you use a stylus pen instead of a mouse to interact directly with objects on your screen. You can open, move, edit and delete items — such as icons, files, windows and

more — with easy-to-use basic functions similar to those performed with a mouse.

Stylus Pen Action	Equivalent Mouse Action
Point	Point
Tap	Click
Double-tap	Double-click
Drag	Drag
Press and hold	Right-click

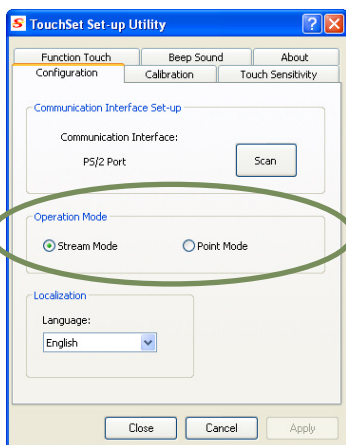
Touch Screen Set-Up and Calibration

The TouchSet Set-Up Utility allows you to customize the way your touch screen accepts positional input and responds to the tap of the stylus. You'll find a short-cut icon for the TouchSet Utility on your desktop.

Operation Mode

The operation mode affects how the touch screen accepts and processes input. There are two basic modes of operation: Stream Mode and Point Mode.

In **Stream Mode**, positional information is relayed to the operating system continuously. In this mode you can place the stylus or your finger on the screen and drag items around. This is the mode you'll probably want to use for standard usage.



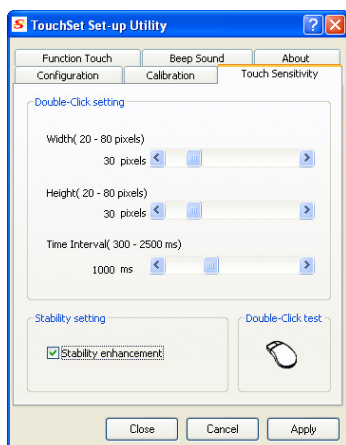
Point Mode only accepts and relays one positional coordinate each time the stylus or a finger touches the screen. In order to relay a new positional coordinate to Windows, you must retouch the screen with your finger or stylus. This mode is useful for menu or button-driven touch applications — such as kiosks, P.O.S. or hospitality order taking — that do not involve tasks that require continuous data input like signature capture, item dragging or handwriting recognition.

You can set the operation mode in the TouchSet Utility on the “Configuration” tab.

Touch Sensitivity

You can set the area and speed that the screen will use to determine whether a double-tap has occurred. The height and width can be adjusted to a small area for applications that require a more precise level of operation, or to a large area to accommodate larger buttons or input areas.

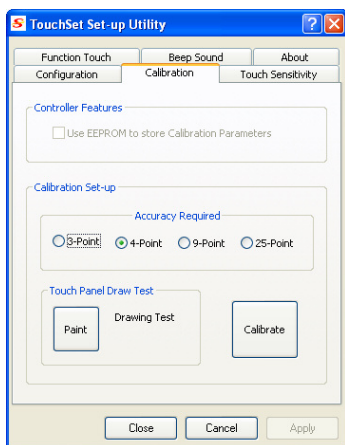
If you find that the touch screen is tracking the pointer’s position erratically, you might need to enable the “Stability enhancement” option which slows down the touch screen’s input sensors to compensate for possible RF interference and thus increase their accuracy.



Calibrating the Touch Screen

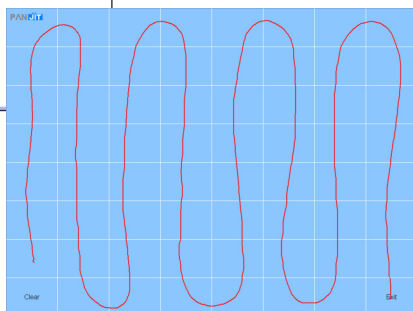
If you find that the pointer isn’t properly following the touch of your stylus pen, you might need to calibrate the touch screen.

1. Tap on the “Calibration” tab and select the desired level of calibration accuracy. Most of the time, a 4-point accuracy is sufficient.
2. Tap on the “Calibrate” button to begin the calibration routine. Follow the on-screen instructions to complete the calibration.
3. When the calibration is complete, you can tap on the “Paint” button to test your calibration results by tapping or dragging with the stylus or a finger around the screen. Use the grid to help visualize the alignment accuracy of your screen’s calibration.



Touch Screen Calibration Routine: Tap in the center of the red crosses as they appear to calibrate the touch screen’s input.

Touch Screen Draw Test: Draw on the screen with the stylus to test the screen’s accuracy after calibration.



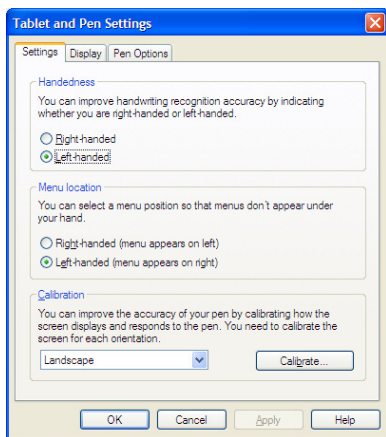
Digitizer Set-Up and Calibration (Tablet PC Edition only)

The Sahara Slate PC i440D can operate in an electromagnetic active digitizer mode as well as in the touch screen mode. Windows XP Tablet PC Edition provides a special control panel applet to control and calibrate the digitizer screen.

To access the “Tablet and Pen Settings” control panel:

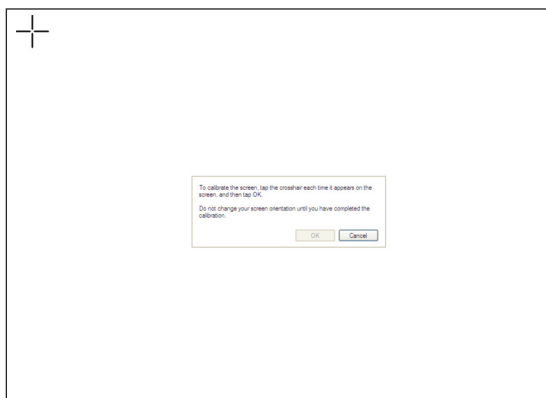
1. Tap on the START button to open the START Menu.
2. Tap on the “Control Panel” and then in the Control Panel window that opens, tap on the “Printers and Other Hardware” category.
3. From the “Printers and Other Hardware” window, look under “or pick a Control Panel icon” for “Tablet and Pen Settings” and tap to open the control panel.

This control panel will allow you to set your handedness, where menus open, the default screen rotation, how bright the screen is under different power saving schemes, what mouse actions occur with different pen actions and more. You can tap on the “Help” button for more information on each of the individual features in the panel.



Another important feature of the “Tablet and Pen Settings” control panel can be found on the “Settings” tab: it is the Digitizer Screen Calibrator. For improved accuracy, you can independently calibrate the digitizer screen for both landscape and portrait orientations.

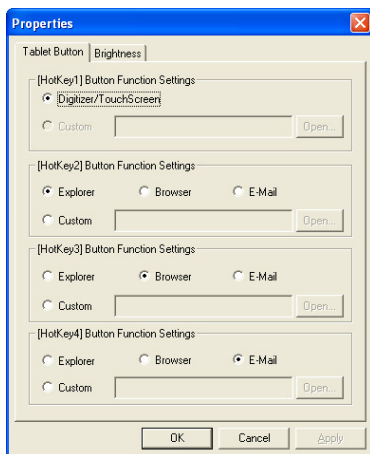
Choose the orientation from the drop down list and then tap on the “Calibrate...” button to start the calibration routine. Follow the on-screen instructions to complete the calibration.



The digitizer calibration is very similar to the touch screen calibration. Touch the center of the crosses when they appear.

Programming the Function Buttons

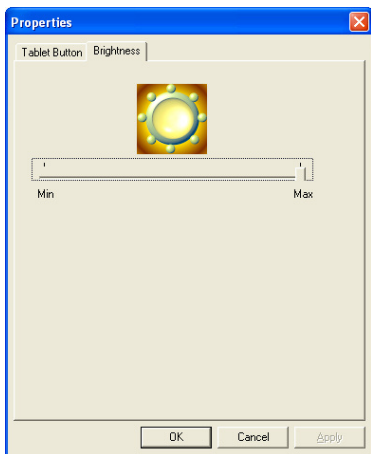
Your Sahara Slate PC has four (three on the i440D) user-programmable function buttons located on the front panel to the right of the display screen. You can use the Tablet Properties Panel, located in the system tray, to reprogram the buttons to activate a different preprogrammed task, or to launch an application of your choice.



The Sahara Slate PC i440D has the first function button preprogrammed to change screen input modes.

Setting the Screen Brightness

The “Brightness” tab in the Tablet Properties Panel, located in the system tray, allows you to set an overall brightness level for the display screen. Simply drag the slider to the left to dim the display or to the right to brighten the display. This control is independent from the sliders in the Intel Media Accelerator Driver control applet.



Changing Screen Resolution, Color and Rotation

Using the control panel of the Intel Graphics Media Accelerator Driver, you can enable multi-monitor support, adjust color balance and gamma, change the screen resolution, enable/disable screen rotation and more. This section will get you started with the control panel. For more detailed information about the panel's features, click on the question mark icon located on the right-hand side of the panel's title bar.

To access the control panel of the Intel Media Accelerator Driver, tap on the screen icon located in the Windows system tray. When the pop-up menu appears, tap on “Graphics Properties...” to open the panel.

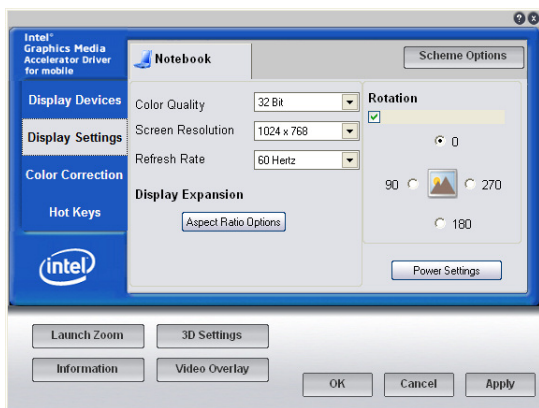


Tap and hold on this icon to get access to the Intel® Graphics Media Accelerator Driver control panel.

Display Settings

The Display Settings tab holds the controls that affect color depth, screen resolution and screen rotation. Most of the time

you will probably want to use the default values, but you may encounter specialized applications where it is advantageous to lower the screen's resolution or disable the screen rotation function.



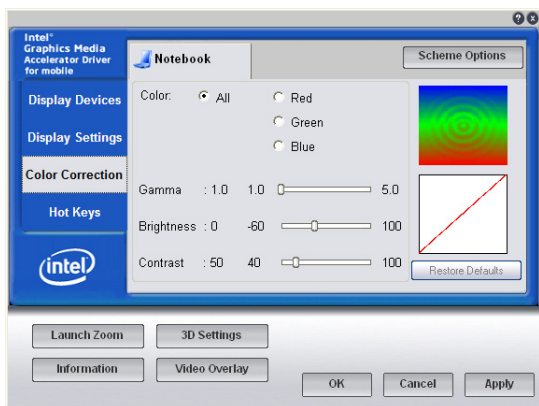
Color Correction

The Color Correction tab is where you will find the controls that affect the color balance, brightness and contrast of the display screen. Use the control sliders to adjust the screen values. Moving a slider to the left decreases the corresponding value, moving a slider to the right increases it.

By using the color channel option buttons at the top of the panel, you can change the RGB color values equally or individually. The Gamma control will adjust the screen's brightness without affecting the white point or the black point of the display.

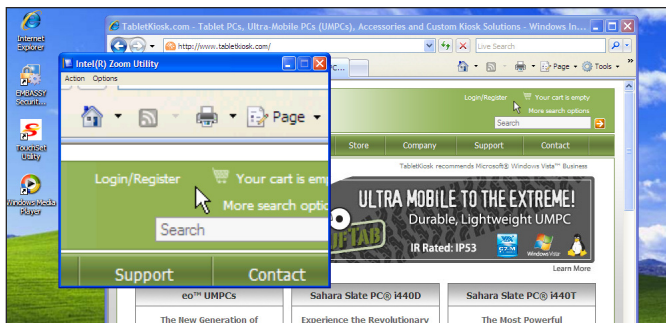
Tap on the "Restore Defaults" button to return the control settings to their default values. This is useful if you are experimenting with the sliders and are unhappy with the results, or if you decide to make additional changes at a later time and want to discard your previously-applied settings. Tap on the

“Apply” button to accept your changes, the “Cancel” button to reject the changes, or the “OK” button to accept the changes and exit the control panel.



Launch Zoom

The Intel Zoom Utility is an interesting feature of the Intel Media Accelerator Driver. Tap on the “Launch Zoom” button to open the utility. Then tap anywhere on the screen and the utility will zoom in on the surrounding area of the screen where you tapped. The zoom is live, so if you move your pen around the screen, the zoomed image will update.



NOTE: The live update works best when in digitizer screen mode on the i440D. You can move the pointer around without touching the screen. Therefore, when you pass over an open application, you will not cover up the Zoom Utility window.

The Zoom Utility window will stay open and active even when you exit the Intel Media Accelerator control panel. You can close the utility like any other standard Windows application; either by choosing “Exit” from the “Action” Menu, or by clicking on the “Close” button in the program’s title bar.

Entering Text with the On-Screen Keyboard

One of Windows XP’s accessibility features is an on-screen keyboard applet that allows you to input text and to execute standard function key combinations. While not as full-featured as other keyboard emulation applications, or even the Windows XP Tablet PC Edition On-Screen Keyboard (see the next section), it does provide most of the standard functionality of an externally-attached keyboard.

To access the keyboard, open the START menu and choose “All Programs > Accessories > Accessibility > On-Screen Keyboard”.

The On-Screen Keyboard can be set to emulate different styles of keyboards and to always be on top of all open application windows. It can even be customized with your choice of font face and font size. Standard modifier key combinations can also be used within any application. For example, to open a new blank document while working in MS Word, simply tap on the <Ctrl> key and then on the <N> key.



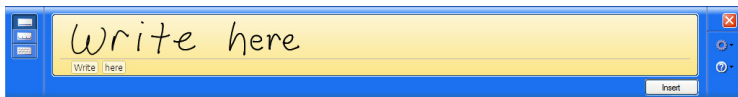
Entering Text with the Input Panels (Tablet PC Edition only)

Complementing Microsoft's Digital Inking handwriting recognition technology, Windows XP Tablet PC Edition features input pads that accept and convert handwriting to text, as well as provide a more compact and convenient on-screen keyboard.

Tap the "Keyboard" icon located next to the START button on the Windows Taskbar to display the on-screen keyboard and writing pads. These input tools allow you to enter information directly into any application that accepts standard keyboard inputs.

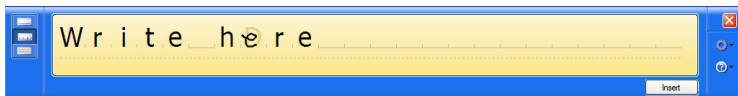
Writing Pad

This pad allows you to enter text on a word-by-word basis. You write on the lines inside the writing pad just as you would write on a lined piece of notepaper. When you reach the end of the line, the pad will expand automatically so you can keep on writing without having to stop. Windows will convert your handwriting into text, on the fly, and then insert it in the appropriate location when you tap "Insert".



Character Pad

This pad accepts input on a character-by-character basis and is useful for entering information that requires a higher level of precision, such as passwords, website URLs or e-mail addresses. When you reach the end of the line, the pad will expand automatically so you can keep on writing without having to stop. Windows will convert your handwriting into text, on the fly, and then insert it in the appropriate location when you tap "Insert".



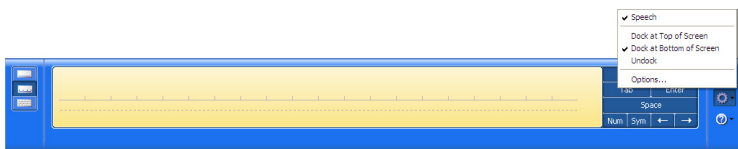
On-Screen Keyboard

Use it the same way that you would use a standard keyboard. By tapping on the individual keys with the stylus, text and symbols can be entered as well as Function Key equivalents and menu item short cuts.

Tap the <Num> or <Sym> keys to display the “Numeric” and “Symbol” keypads respectively. Tap <Func> to bring up the Function keypad.



Tap on the gear icon, on any of the input panels, to display a menu that you can use to invoke Windows XP Tablet PC Edition’s speech recognition capabilities, adjust where you want the input panels to appear on the screen, undock the panel to move it anywhere on the screen, or open the panels’ “Options” menu.



For more information about the Input Panels, refer to the Windows Online Help System by tapping on the “Help and Support” item inside the START Menu.

To learn more about how to use the input panels, you can also take the “Tablet PC Tutorials” by navigating to “All Programs > Tablet PC > Tablet PC Tutorials” in the START Menu. For more information about the Input Panel’s “Options” menu, tap on the “Help” button inside of the “Options” Menu Panel.

Connecting to the Internet

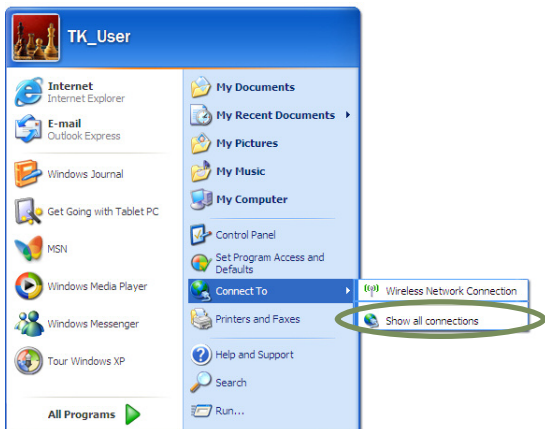
Your Sahara Slate PC allows you to connect to the Internet in different ways. The ways vary depending on the user's networking environment as well as personal preference and available equipment. This section outlines two of the most common ways:

1. Using a wired LAN (Local Area Network)
2. Using a wireless LAN

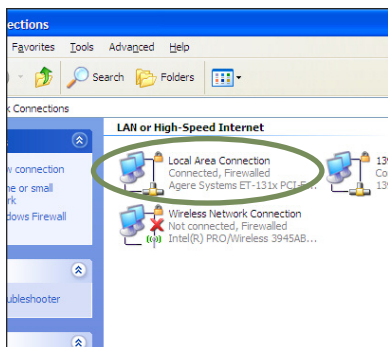
Using a Wired LAN

To connect to the Internet via a wired LAN environment, typically an Ethernet port or a broadband modem must be within the reach of the networking cable you are using.

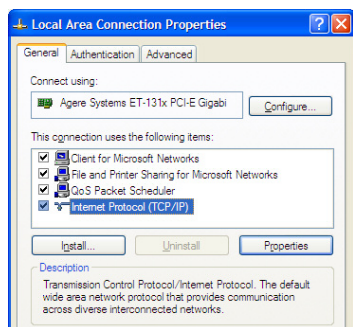
1. Connect an Ethernet networking cable into the LAN port of your Sahara Slate PC and then connect the other end into your broadband modem or the appropriate LAN port as instructed by your network administrator.
2. From the START menu, select "Connect To" and tap on "Show all connections".



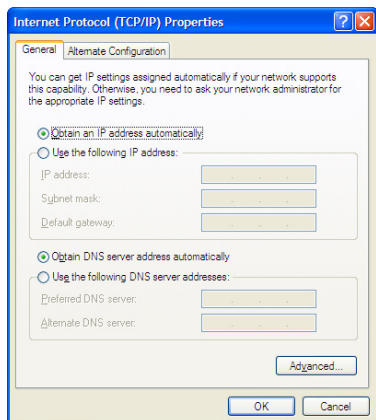
3. In the “Network Connections” window, look at the “Local Area Connection” item and make sure it reads as “Connected”. If not, recheck that your networking cable is properly connected, or contact your network administrator.



4. Press and hold the “Local Area Connection” item and select “Properties” from the pop-up menu that appears, or if the Status window appears, tap the “Properties” button.



5. Under the General Tab, you'll see a list box called “This connection uses the following items:” Select “Internet Protocol (TCP/IP)”, and tap the “Properties” button to open the “Internet Protocol (TCP/IP) Properties” window.



6. If DHCP is used on your network, tap “Obtain an IP address automatically” and “Obtain DNS server address automatically”.

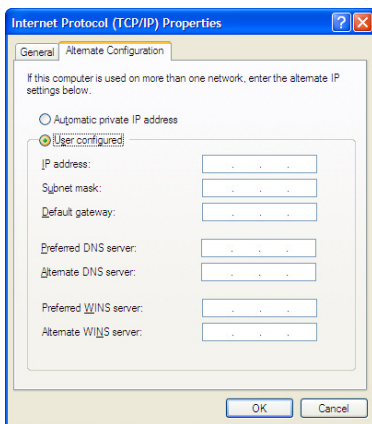
Otherwise, enter the correct IP and DNS server addresses by selecting the two options that begin with “Use the following...” If you are unsure of which option to use, contact your network administrator or your Internet Service Provider (ISP).

7. After entering the correct the information in the “Internet Protocol (TCP/IP) Properties” window, tap “OK” to accept your changes and close the window. Tap “OK” in the “Local Area Connection Properties” window to finish.

Using Both DHCP and a Static IP Address

If you are using alternating networks with either DHCP or static IP addressing, you can use alternative settings that will enable simultaneous configurations of both DHCP and a static IP. This will allow you to connect to both of the networks without having to reconfigure each time you want to switch.

1. Follow steps 1 through 7 above when using a wired LAN connection.
2. Tap on the “Alternate Configuration” tab and select the “User configured” option. Enter the correct values in the appropriate fields. If you are unsure of which values or options to use, contact your network administrator or the technical support line of your ISP.



When you have completed the entire configuration, tap “OK” to accept the settings and close the panel.

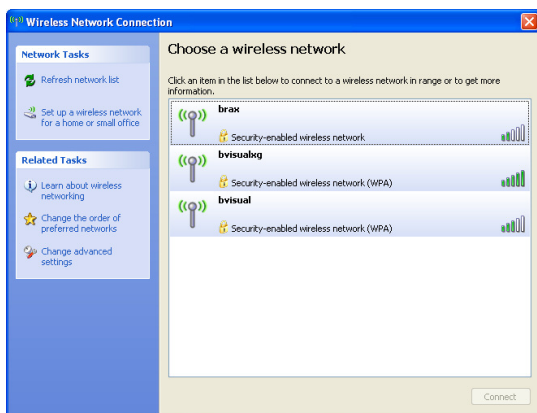
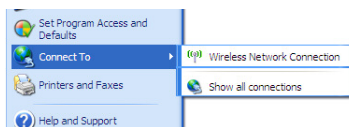
Using a Wireless LAN

The WiFi wireless network adapter built into your Sahara Slate PC is compatible with a/b/g wireless networks, and therefore can connect to wireless routers or access points that support any of these standards.

1. Turn on the WiFi transmitter using the toggle switch on the top of your tablet.
2. In the START menu, choose "Connect To > Wireless Network Connection".

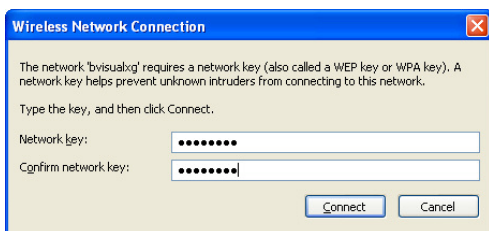


3. From the list that appears, choose the network you wish to connect to and tap the "Connect" button. If no wireless networks appear after a few moments, tap on "Refresh" in the left-hand pane.



4. If the wireless network you are attempting to connect to is security-enabled, you will see a dialog box requesting a

network key. The key must be entered correctly in both text fields or you will not be able to successfully connect to the network.



Most failures to connect to a wireless network occur because the network key has been improperly entered. Be very careful when entering this key. If you do not know the correct key to enter, or still can't connect after entering the key properly, contact your network administrator or the technical support line of your ISP.

Using a Modem

Another common way to connect to the Internet is by using your Sahara Slate PC's internal 56K modem. Take a standard telephone cable with RJ11 connectors on both ends. Plug one end into your Sahara Slate PC's modem jack and the other end into a standard RJ11 telephone wall jack. See the section entitled *Touring Your Sahara Slate PC* to locate the modem jack.

IMPORTANT: Make sure the phone line you are going to use with your modem is a standard analog phone line – like the ones typically used in homes. The modem will not work with a digital phone line, and may even be damaged if a connection is attempted.

Procedures to connect to the Internet with a modem vary with different Internet Service Providers (ISPs). Check with your ISP to determine what information and software are needed to access their network.

Bluetooth® Wireless Connectivity

Bluetooth® is a short-range wireless technology you can use to transfer data between your Sahara Slate PC and other wireless devices that use Bluetooth, such as wireless keyboards and mice, cell phones, PDAs and even printers. Bluetooth-enabled devices can communicate with each other, without cables, up to a distance of 30 feet.

NOTE: The wireless range can be shortened from interference caused by other wireless devices and/or by walls made of dense building materials.

Some of the activities available with Bluetooth wireless connectivity are:

- ❖ Using a wireless keyboard, such as TabletKiosk's Bluetooth Folding Keyboard, to enter data on your Sahara Slate PC.
- ❖ Connecting to your Bluetooth-capable cell phone to access the Internet and surf the web or download your e-mail.
- ❖ Setting up a Personal Area Network (PAN) to transfer files between your Sahara Slate PC and that of a colleague, or even an eo UMPC, without the need of using ethernet cables or even an existing wireless network.
- ❖ Print to a Bluetooth-enabled printer from across the room without connecting any cables.

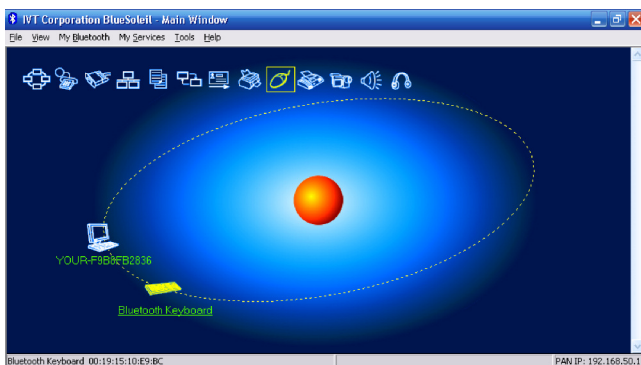
Generally, to connect to a Bluetooth enabled device:

1. Turn on the Bluetooth transmitter using the toggle switch on the top of your tablet.
2. Locate the **BlueSoleil** application, either in your **START Menu** or on the desktop and launch it.



BlueSoleil

3. In the system tray, a gray Bluetooth icon should appear and, in a few moments, turn blue. Double-tap on it, or again on the BlueSoleil desktop icon, to open the BlueSoleil application.
4. Locate the Bluetooth device you want to connect to with your Sahara Slate PC and put it into discovery mode. Refer to your Bluetooth device's user manual for information on how to accomplish this task.
5. Double-tap on the Orange globe in the center of the BlueSoleil window to start the Discovery Service. In a moment or two, you should see an icon(s) representing your Bluetooth device(s) orbiting the orange globe.

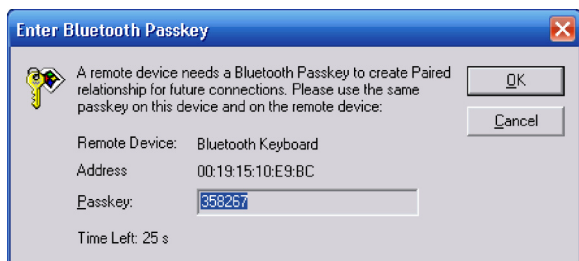


6. When the icon of the device you wish to connect to appears, double-tap on it to begin the pairing process.
7. The applicable Bluetooth service icon(s) at the top of the screen will turn yellow. Verify that your device's pairing process is still active and then tap on the yellow icon whose service you wish to utilize. Some devices can utilize different services depending on their function.



The mouse icon, for example, represents the Human Device Interface Service.

8. If a dialog box opens on the Sahara Slate PC's screen asking you to input a Bluetooth Passkey, enter the number that appears in the window on your screen into your Bluetooth device and, if applicable, hit <Enter> or <OK> on the Bluetooth device to commit the entry.



9. When successfully paired, a red check mark will appear above the name of your Bluetooth device's icon. Also, the applicable Bluetooth Service icon at the top of the window should light up. If your Bluetooth device didn't connect automatically, tap on the active service's icon to do so manually.

Your device should now be connected to your Sahara Slate PC. If successful, the Bluetooth device's icon should turn green, a red signal strength bar should appear just to the right of it, and a red animated globe will begin travelling from the device's icon to the orange globe.

If you have trouble connecting, make sure you completed the above steps in the time period that your Bluetooth device is in pairing mode. If your device exits pairing mode before you can connect, re-enable it and, depending on the state of the connection process, redo any applicable steps.

For more information about configuring and using the BlueSoleil application, check out the online help system by either tapping <F1> on your keyboard or choosing "Help > Contents and Index" from the BlueSoleil application menu.

Using Your Sahara Slate PC with Windows Vista

Your Sahara Slate PC is a power mobile computer capable of accomplishing all the same tasks as a laptop or a desktop PC, but there are some differences in the way that you interact with Windows using a stylus pen – or your fingers – as opposed to a mouse and keyboard. This chapter contains tips and details to get the most from your Sahara Slate PC when using Microsoft's newest operating system, Windows Vista®.

It is important to note that some of the context-sensitive features of Windows Vista, such as the floating Input Panel icon, as well as many of the pen configuration options will only function when using a tablet with an active digitizer screen (such as the Sahara Slate PC i440D when in Active Digitizer mode). While many of Vista's tablet specific functions will work with a touch screen—including handwriting recognition—they may not always do so with optimal efficiency.

NOTE FOR i440D OWNERS: You may switch between screen input modes simply by pressing the screen mode toggle button. See the chapter entitled *Touring Your Sahara Slate PC* for the location of the screen toggle button.

NOTE FOR i412T and i440T OWNERS: Many of the tablet functions of Windows Vista—including handwriting recognition—will not be available by default, as there is no active digitizer present for Vista to detect. Some third party utilities are available which will allow these functions to operate.

While this chapter will help get you started using your Sahara Slate PC with Windows Vista, make sure to check out the many helpful tutorials located in your START Menu under both "Help

and Support” and also “All Programs > Tablet PC > Tablet PC Training”.

Navigating with the Stylus Pen

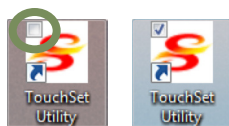
With a Tablet PC, you typically use a stylus pen instead of a mouse to interact directly with objects on your screen. You can open, move, edit and delete items — such as icons, files, windows and more — with easy-to-use basic functions similar to those performed with a mouse.

Stylus Pen Action	Equivalent Mouse Action
Point	Point
Tap	Click
Double-tap	Double-click
Drag	Drag
Press and hold	Right-click

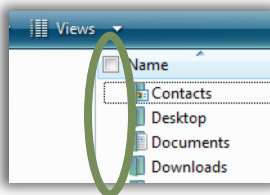
Selecting Multiple Items

Windows Vista is well aware of how you manipulate items on your computer traditionally with a mouse and how selecting multiple items for such actions as moving or copying, might be a bit more challenging when using the stylus pen. Because of this, Vista adds a selection checkbox in the upper left corner of icons and in the far left column of list views.

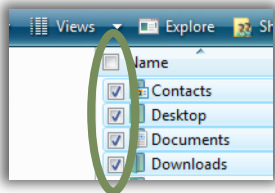
Hover over an icon on your desktop and you will see this checkbox appear. Tapping on it will place a check mark



Hovering over an icon reveals the selection checkbox.



in the box. Hover over another icon and, when it appears, tap in its checkbox. Now, tap and hold and drag either icon and you should notice that both move along with your stylus.



This multiple selection feature works with other types of operations such as cutting, copying and pasting.

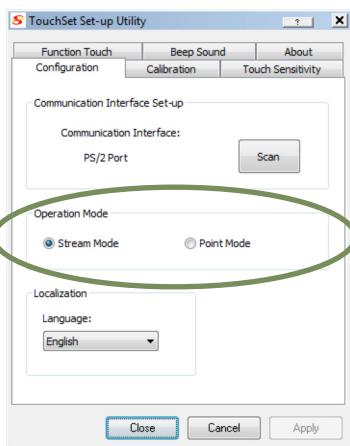
Touch Screen Set-Up and Calibration

The TouchSet Set-Up Utility allows you to customize the way your touch screen accepts positional input and responds to the tap of the stylus. You'll find a short-cut icon for the TouchSet Utility on your desktop.

Operation Mode

The operation mode affects how the touch screen accepts and processes input. There are two basic modes of operation: Stream Mode and Point Mode.

In **Stream Mode**, positional information is relayed to the operating system continuously. In this mode you can place the stylus or your finger on the screen and drag items around. This is the mode you'll probably want to use for standard usage.



Point Mode only accepts and relays one positional coordinate each time the stylus or a finger touches the screen. In order to relay a new positional coordinate to Windows, you must retouch

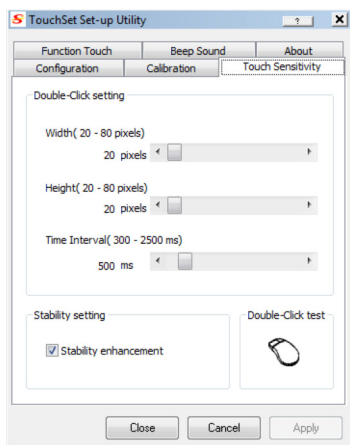
the screen with your finger or stylus. This mode is useful for menu or button-driven touch applications — such as kiosks, P.O.S. or hospitality order taking — that do not involve tasks that require continuous data input like signature capture, item dragging or handwriting recognition.

You can set the operation mode in the TouchSet Utility on the “Configuration” tab.

Touch Sensitivity

You can set the area and speed that the screen will use to determine whether a double-tap has occurred. The height and width can be adjusted to a small area for applications that require a more precise level of operation, or to a large area to accommodate larger buttons or input areas.

If you find that the touch screen is tracking the pointer’s position erratically, you might need to enable the “Stability enhancement” option which slows down the touch screen’s input sensors to compensate for possible RF interference and thus increase their accuracy.



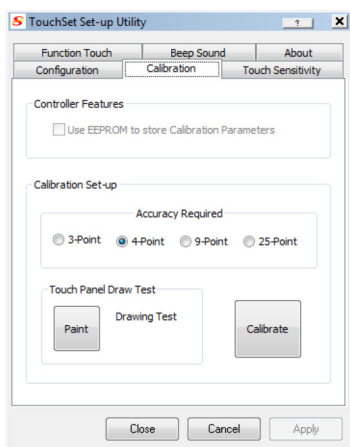
Calibrating the Touch Screen

If you find that the pointer isn’t properly following the touch of your stylus pen, you might need to calibrate the touch screen.

1. Tap on the “Calibration” tab and select the desired level of calibration accuracy. Most of the time, a 4-point accuracy is sufficient.

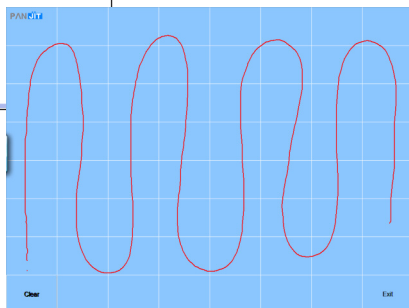
2. Tap on the “Calibrate” button to begin the calibration routine. Follow the on-screen instructions to complete the calibration.

3. When the calibration is complete, you can tap on the “Paint” button to test your calibration results by tapping or dragging with the stylus or a finger around the screen. Use the grid to help visualize the alignment accuracy of your screen’s calibration.



Touch Screen Calibration Routine: Tap in the center of the red crosses as they appear to calibrate the touch screen’s input.

Touch Screen Draw Test: Draw on the screen with the stylus to test the screen’s accuracy after calibration.

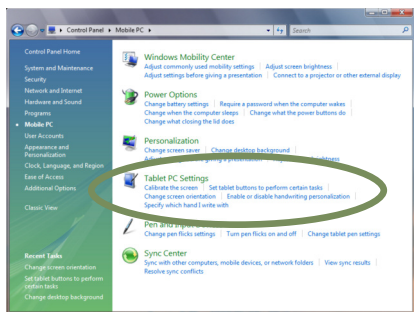


Digitizer Configuration and Calibration

The Sahara Slate PC i440D can operate in an electromagnetic active digitizer mode as well as in the touch screen mode. Windows Vista provides a special control panel to manage the way the digitizer functions and also to calibrate it.

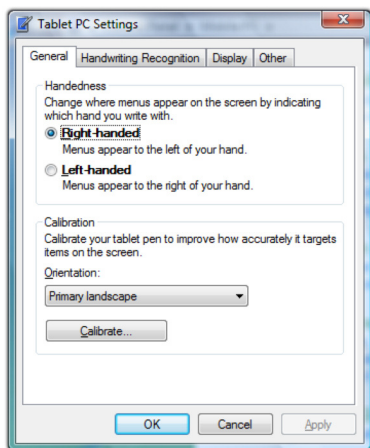
To access the “Tablet PC Settings” control panel:

1. Tap on “Control Panel” in the right-hand column of the START Menu and then in the Control Panel window that opens, tap on the “Mobile PC” category title.



2. Tap on the “Tablet PC Settings” category title to open the Tablet PC Settings panel to the “General” tab. Tapping a specific task sub-title below the category title will open the panel with its appropriate tab active.

This control panel will allow you to set your handedness to control where menus open, calibrate your digitizer screen (i440D only) tell Windows how to recognize and learn your handwriting, set the default screen rotation, provide a link to the Windows Mobility Center that controls a number of important tablet and mobility related functions



(including how bright the screen is under different power saving schemes), what mouse actions occur with different pen actions and more.

Calibrating the Active Digitizer (i440D only)

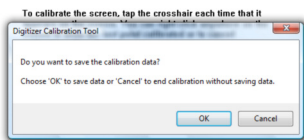
Independent from the accuracy of the touch screen is the input accuracy of the active digitizer (i440D only). In the lower half of the “General” tab you will see the “Calibration” section.

To begin, choose a screen orientation from the drop down list and then tap the “Calibrate...” button to start the digitizer screen calibration routine. Follow the on-screen instructions to complete the calibration routine and save your input settings.



The digitizer calibration is very similar to the touch screen calibration. Touch the center of the crosses when they appear.

When complete, tap “OK” to save your settings.



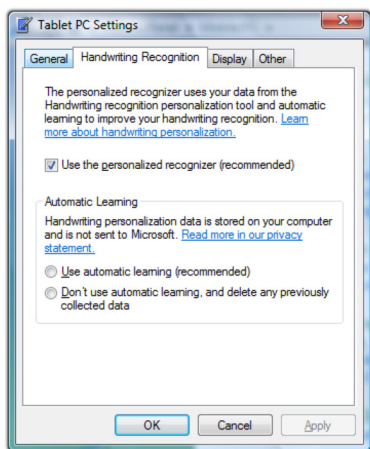
For maximum accuracy, it is recommended that you calibrate both the “Primary landscape” and “Primary portrait” orientations.

NOTE: Calibrating the secondary orientations is not necessary since, due to FCC certification regulations regarding the wireless networking transmitter, they are identical to the primary orientations.

Handwriting Recognition

A unique function of Windows Vista is its ability to learn your handwriting style. If you are going to be the primary user of your Sahara Slate PC, then enabling the “Use the personalized recognizer” option will allow Vista to improve its ability to accurately convert your handwriting to text from data collected during training sessions with the “handwriting recognizer” (see later in this chapter under *Improving Hand Writing Recognition* for more information).

Along with the personal recognizer, Vista can also learn on the fly as you input information on a continual basis. Enabling the option to “Use automatic learning” lets Vista collect information about how and what you write in order to improve its accuracy.



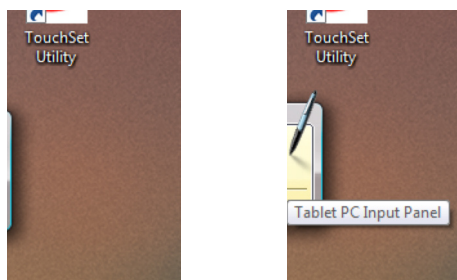
If the Sahara Slate PC is going to be operated by a number of different people utilizing the same user profile, then leaving these personalization options off will allow Vista to use its generic handwriting recognition abilities.

Entering Text with the Input Panels

Complementing Microsoft’s Digital Inking handwriting recognition technology, Windows Vista features input pads that accept and convert handwriting to text, as well as provide a compact and convenient on-screen keyboard.

Tap the edge of the input panel docked on the left side of the screen to display the on-screen keyboard and writing pads.

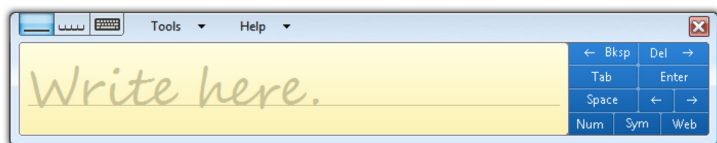
These input tools allow you to enter information directly into any application that accepts standard keyboard inputs.



NOTE FOR i440D USERS: By default, when in Active Digitizer mode, hovering your pen over the edge of the Input Panel will cause it to slide out a bit making it easier to invoke.

Writing Pad

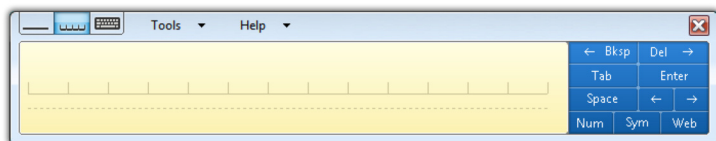
This pad allows you to enter text on a word-by-word basis. You write on the lines inside the writing pad just as you would write on a lined piece of notepaper. When you reach the end of the line, the pad will expand automatically so you can keep on writing without having to stop. Windows will convert your handwriting into text, on the fly, and then insert it in the appropriate location when you tap “Insert”.



Character Pad

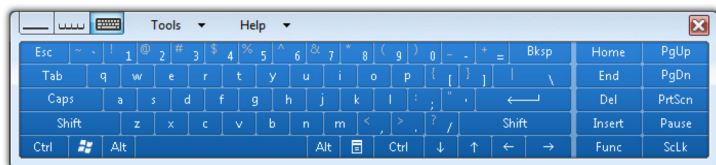
This pad accepts input on a character-by-character basis and is useful for entering information that requires a higher level of precision, such as passwords, website URLs or e-mail addresses.

When you reach the end of the line, the pad will expand automatically so you can keep on writing without having to stop. Windows will convert your handwriting into text, on the fly, and then insert it in the appropriate location when you tap “Insert”.

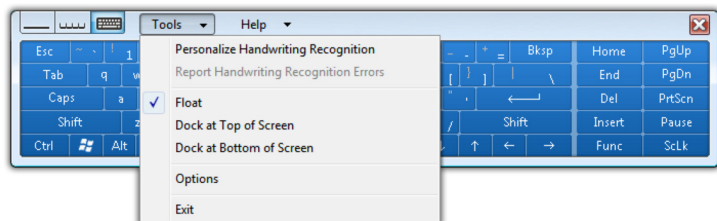


On-Screen Keyboard

Use it the same way that you would use a standard keyboard. By tapping on the individual keys with the stylus, text and symbols can be entered as well as Function Key equivalents and menu item short cuts.



Tap on the “Tools” button, on any of the input panels, to display a menu that you can use to invoke Windows Vista’s Handwriting Personalizer, adjust where you want the input panels to appear on the screen, undock the panel to move it anywhere on the screen, or open the panels’ “Options” menu.

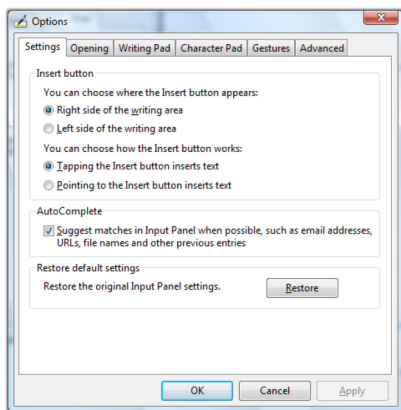


For more information about the Input Panels, refer to the Windows Online Help System by tapping on the “Help and Support” item inside the START Menu.

To learn more about how to use the input panels, you can also take the “Tablet PC Pen Training” by navigating to “All Programs > Tablet PC > Tablet PC Pen Training” in the START Menu.

Input Panel Options

The Options panel contains six tabs that house all of the configuration options for controlling how the input panels work. These include panel layout, positioning, invocation actions, ink thickness, character insertion timing, pad expansion, handwriting recognition timing, gestures behavior and password security. For more information about any of the panel’s options, please see the embedded help links located on each of the Options panel’s tabs.



NOTE: If after experimenting with any of the panel’s settings you would like to return everything to the default configuration, just tap the “Restore” button located on the bottom half of the “Settings” tab.

Improving Handwriting Recognition

Windows Vista includes a few different utilities to improve upon its default handwriting recognition accuracy. To begin training Windows Vista to better recognize and translate your

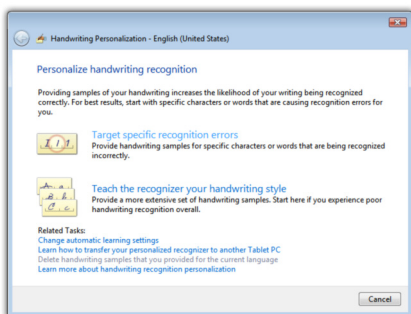
handwriting, tap on “Tools > Personalize Handwriting Recognition” to open the “Handwriting Personalization” application.

There are two different training utilities:

Target specific recognition errors does spot training on letters and numbers that usually account for the most common translation errors. Choose this training if for the most part Vista is correctly recognizing your handwriting with the exception of a few different characters.

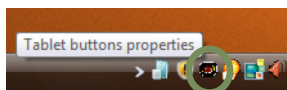
Teach the recognizer your handwriting style

is a total handwriting training session. You will be presented with a series of sentences to write that will cover all letters, numbers and symbols. This thorough training is more time consuming and only necessary if you find Vista’s ability to translate your handwriting to be poor.

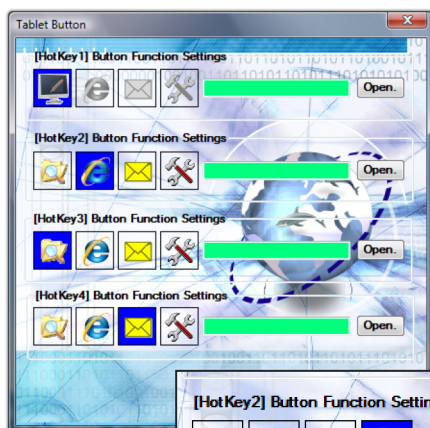


Programming the Function Buttons

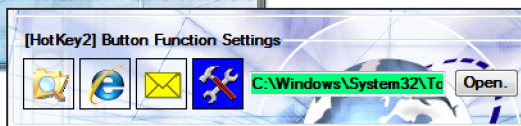
Your Sahara Slate PC has four (three on the i440D) user-programmable function buttons located on the front panel to the right of the display screen. You can use the “Tablet Button” control applet, located in the system tray, to reprogram the buttons to activate a different preprogrammed task, or to launch an application of your choice.



Tap this icon in the Windows System Tray to open the Tablet Button control applet.



Tapping on the tools icon of any hot key and then tapping its Open button allows you to customize what application it launches when pressed.

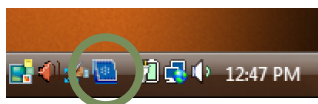


To launch an application, tap on the tools icon of the appropriate function button you wish to program and then tap the “Open...” button to select the application. If the tools icon is not selected, the application listed in the text window will be ignored.

Changing Screen Resolution, Color and Rotation

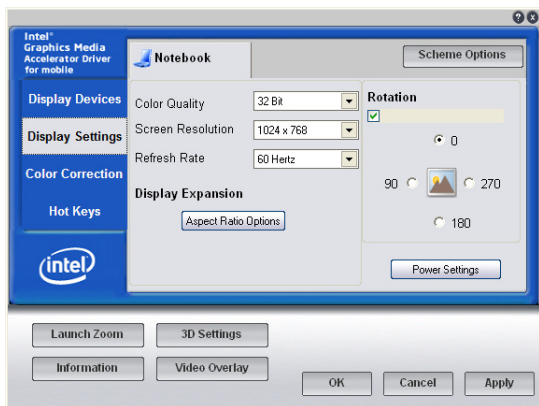
Using the control panel of the Intel Graphics Media Accelerator Driver, you can enable multi-monitor support, adjust color balance and gamma, change the screen resolution, enable/disable screen rotation and more. This section will get you started with the control panel. For more detailed information about the panel’s features, click on the question mark icon located on the right-hand side of the panel’s title bar.

To access the control panel of the Intel Media Accelerator Driver, tap on the screen icon located in the Windows system tray. When the pop-up menu appears, tap on “Graphics Properties...” to open the panel.



Display Settings

The Display Settings tab holds the controls that affect color depth, screen resolution and screen rotation. Most of the time you will probably want to use the default values, but you may encounter specialized applications where it is advantageous to lower the screen's resolution or disable the screen rotation function.



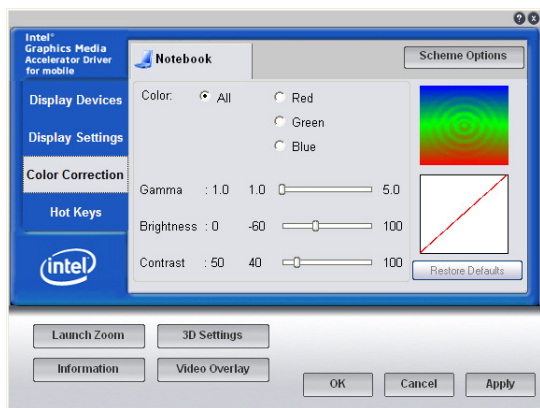
Color Correction

The Color Correction tab is where you will find the controls that affect the color balance, brightness and contrast of the display screen. Use the control sliders to adjust the screen values. Moving a slider to the left decreases the corresponding value, moving a slider to the right increases it.

By using the color channel option buttons at the top of the panel, you can change the RGB color values equally or individually. The Gamma control will adjust the screen's brightness without affecting the white point or the black point of the display.

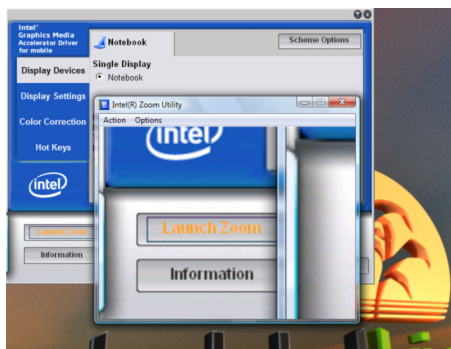
Tap on the "Restore Defaults" button to return the control settings to their default values. This is useful if you are

experimenting with the sliders and are unhappy with the results, or if you decide to make additional changes at a later time and want to discard your previously-applied settings. Tap on the “Apply” button to accept your changes, the “Cancel” button to reject the changes, or the “OK” button to accept the changes and exit the control panel.



Launch Zoom

The Intel Zoom Utility is an interesting feature of the Intel Media Accelerator Driver. Tap on the “Launch Zoom” button to open the utility. Then tap anywhere on the screen and the utility will zoom in on the surrounding area of the screen where you tapped. The zoom is live, so if you move your pen around the screen, the zoomed image will update.



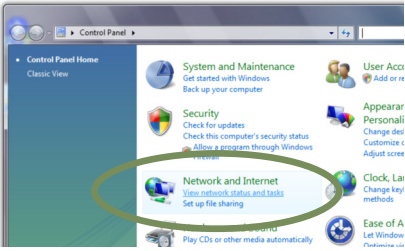
Connecting to the Internet

Your Sahara Slate PC allows you to connect to the Internet in different ways. The ways vary depending on the user's networking environment as well as personal preference and available equipment. This section outlines two of the most common ways:

1. Using a wired LAN (Local Area Network)
2. Using a wireless LAN

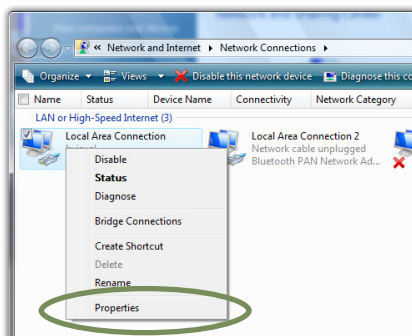
Using a Wired LAN

To connect to the Internet via a wired LAN environment, typically an Ethernet port or a broadband modem must be within the reach of the networking cable you are using.

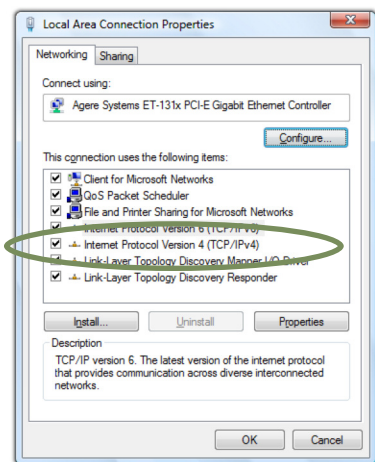
1. Connect an Ethernet networking cable into the LAN port of your Sahara Slate PC and then connect the other end into your broadband modem or the appropriate LAN port as instructed by your network administrator.
2. If your network or Internet Service Provider (ISP) uses a Dynamic Host Control Protocol (DHCP) server (as many do) you should find that you can already connect to the internet. If not, continue to the next step.
3. From the START menu, select "Control Panel" and tap on "View network status and task" under the "Network and Internet" category.
3. In the left hand pane, tap on "Manage network connections".

connections”, and look at the “Local Area Connection” item and make sure it reads as “Enabled”. If not, recheck that your networking cable is properly connected, or contact your network administrator.

4. Press and hold the “Local Area Connection” item and select “Properties” from the pop-up menu that appears, or if the Status window appears, tap the “Properties” button. If Windows asks you for permission to continue, tap on the “Continue” button.



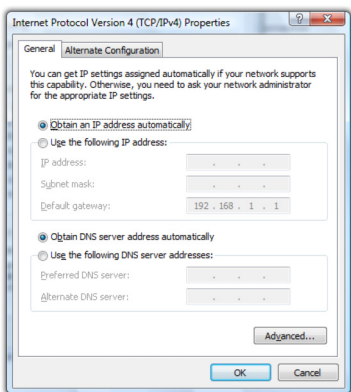
5. Under the General Tab, you'll see a list box called "This connection uses the following items:" Select "Internet Protocol Version 4 (TCP/IPv4)", and tap the "Properties" button to open the "Internet Protocol (TCP/IP) Properties" window.



6. If DHCP is used on your network, tap “Obtain an IP address automatically” and “Obtain DNS server address automatically”. Otherwise, enter the correct IP and DNS server addresses by selecting the

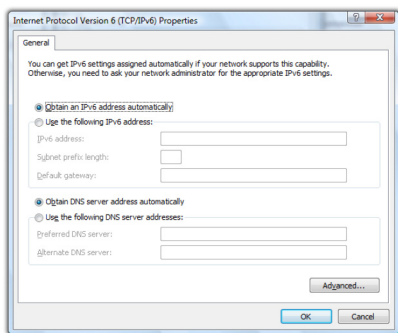
two options that begin with “Use the following...” If you are unsure of which option to use, contact your network administrator or your Internet Service Provider (ISP).

7. After entering the correct the information in the “Internet Protocol (TCP/IP) Properties” window, tap “OK” to accept your changes and close the window.



Contact your network administrator or ISP technical support if you are unsure about any of these settings.

8. Repeat steps 5 through 7 selecting “Internet Protocol Version 6 (TCP/IPv6)” this time if your network supports it.
9. Tap “OK” in the “Local Area Connection Properties” window to finish.

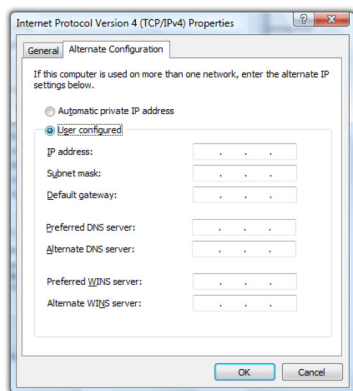


Using Both DHCP and a Static IP Address

If you are using alternating networks with either DHCP or static IP addressing, you can use alternative settings that will enable simultaneous configurations of both DHCP and a static IP. This will allow you to connect to both of the networks without having to reconfigure each time you want to switch.

1. Follow steps 1 through 7 above when using a wired LAN connection.

2. Tap on the “Alternate Configuration” tab and select the “User configured” option. Enter the correct values in the appropriate fields. If you are unsure of which values or options to use, contact your network administrator or the technical support line of your ISP.



When you have completed the entire configuration, tap “OK” to accept the settings and close the panel.

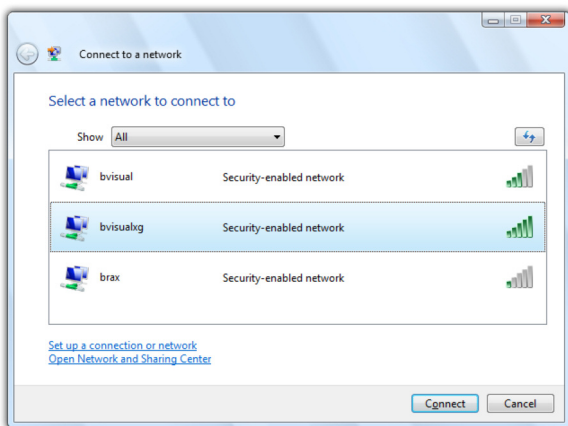
Using a Wireless LAN

The WiFi wireless network adapter built into your Sahara Slate PC is compatible with a/b/g wireless networks, and therefore can connect to wireless routers or access points that support any of these standards.

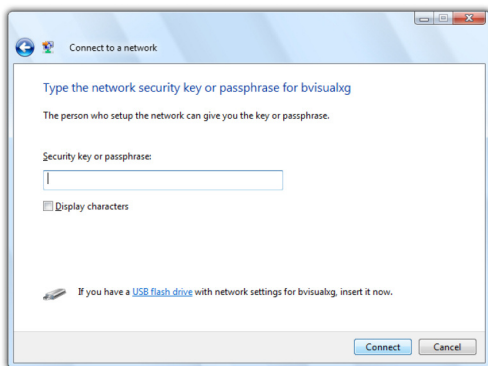
1. Turn on the WiFi transmitter using the toggle switch on the top of your tablet.



2. In the START menu, choose “Connect To”.
3. From the list that appears, choose the network you wish to connect to and tap the “Connect” button. If no wireless networks appear after a few moments, tap on “Refresh” icon above the network list on the right side of the panel.



4. If the wireless network you are attempting to connect to is security-enabled, you will see a dialog box requesting a network key. Enter the proper key and then tap “Connect”.



Most failures to connect to a wireless network occur because the network key has been improperly entered. Be very careful when entering this key. If you do not know the correct key to enter, or still can't connect after entering the key properly, contact your network administrator or the technical support line of your ISP.

Using a Modem

Another common way to connect to the Internet is by using your Sahara Slate PC's internal 56K modem. Take a standard telephone cable with RJ11 connectors on both ends. Plug one end into your Sahara Slate PC's modem jack and the other end into a standard RJ11 telephone wall jack. See the section entitled *Touring Your Sahara Slate PC* to locate the modem jack.

IMPORTANT: Make sure the phone line you are going to use with your modem is a standard analog phone line – like the ones typically used in homes. The modem will not work with a digital phone line, and may even be damaged if a connection is attempted.

Procedures to connect to the Internet with a modem vary with different Internet Service Providers (ISPs). Check with your ISP to determine what information and software are needed to access their network.

Bluetooth® Wireless Connectivity

Bluetooth® is a short-range wireless technology you can use to transfer data between your Sahara Slate PC and other wireless devices that use Bluetooth, such as wireless keyboards and mice, cell phones, PDAs and even printers. Bluetooth-enabled devices can communicate with each other, without cables, up to a distance of 30 feet.

NOTE: The wireless range can be shortened from interference caused by other wireless devices and/or by walls made of dense building materials.

To connect to a Bluetooth enabled device:

1. Turn on the Bluetooth transmitter using the toggle switch on the top of your tablet.



2. On your desktop, locate the “BlueSoleil” icon and double-tap on it. If Windows Vista prompts you for permission, tap the “Continue” button to start the Bluetooth Service.



3. In the system tray, a gray Bluetooth icon should appear and, in a few moments, turn blue. Double-tap on it, or again on the BlueSoleil desktop icon, to open the BlueSoleil application.



Wait for the gray Bluetooth icon to turn blue, then double-tap on it.



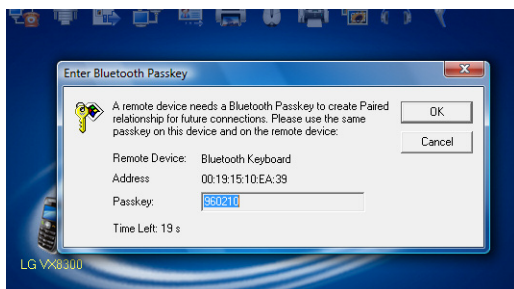
4. Locate the Bluetooth device you want to connect to with your Sahara Slate PC and put it into discovery mode. Refer to your Bluetooth device’s user manual for information on how to accomplish this task.

5. Tap on the orange globe in the center of the BlueSoleil window to start the Discovery Service. In a moment or two, you should see an icon(s) representing your Bluetooth device(s) orbiting the orange globe.



6. When the icon of the device you wish to connect to appears, tap-and-hold on it to invoke a context sensitive menu and choose “Pair Device” to begin the pairing process.
7. If a dialog box opens on the Sahara Slate PC’s screen asking you to input a Bluetooth Passkey, enter the number that appears in that dialog box into your Bluetooth device and hit <Enter> or <OK> on your device to commit the entry.

Make sure to enter the Passkey that appears on your screen, and not the one from this image.



8. When successfully paired, a red check mark will appear above the name of the Bluetooth device that you just paired. Also, the applicable Bluetooth Service icon at the top of the Window should light up. Click on that service icon to connect to the Bluetooth device.



Your device should now be connected to your tablet. If successful, the Bluetooth device's icon should turn green, a red signal strength bar should appear just to the right of the icon, and a red animated globe will begin travelling from the icon to the orange globe.

If you have trouble connecting, make sure you completed the above steps in the time period that your Bluetooth device is in pairing mode. If your device exits pairing mode before you can connect, re-enable it and, depending on the state of the connection process, redo any applicable steps.

For more information about configuring and using the BlueSoleil application, check out the online help system by either tapping <F1> on your keyboard or choosing "Help > Contents and Index" from the BlueSoleil application menu.

Your Sahara Slate PC is equipped with a Trusted Platform Module (TPM) and a biometric fingerprint reader that can help you better secure your data from intruders.

Used in conjunction with specialized security management software, a TPM offers facilities for generating cryptographic keys—as well as the ability to limit the use of such keys for authentication or encryption/decryption—and also random numbers. The TPM can also be used to authenticate a specific hardware device for use in platform authentication. For example, the TPM can be used to verify the authenticity of a specific hardware system for secured access.

The biometric fingerprint reader can be used on its own as a method for entering passwords without the need for a keyboard, or in tandem with the TPM to create a secure and convenient way to protect system access rights and data availability.

This chapter will get you started by enabling the TPM for use with your security software management system and setting up the VitaKey Fingerprint Security Application.

BIOS Settings

To take advantage of the enhanced security features of the Trusted Computing Platform, you must first enable it in the tablet's BIOS.

NOTE: A USB keyboard must be attached to the Sahara Slate PC prior to powering on the system in order to enter and navigate the tablet's BIOS.

1. Power on or restart the Sahara Slate PC. When the TabletKiosk logo screen appears, hit the <Delete> key on the keyboard to enter the BIOS.

NOTE: If you are having trouble getting into the BIOS, you can press <Delete> multiple times after the TabletKiosk logo screen appears until you finally see the BIOS Menu appear.

2. When the BIOS Menu appears, press the right arrow key to navigate to the "Advanced" menu screen. Use the down arrow key to highlight the "Trusted Computing" option and press <Enter>.
3. In the Trusted Computing screen, press <Enter> and select "Yes" to enable TCG/TPM Support.
4. Hit the down arrow key to highlight the "Execute TPM Command" and press the <Enter> key to open the Options menu. From the menu, use the down arrow key to highlight "Enabled" and press <Enter> to enable the TPM module.
5. Press the <F10> key to save changes to the BIOS and restart the computer.

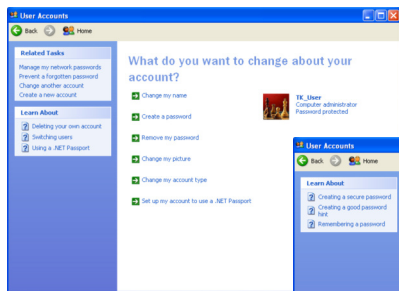
Note: If at any point you wish to clear the TPM module's information and return the Sahara Slate PC to its original "unowned" state, use the arrow key to highlight "Clearing the TPM" and press <Enter>. This will open a menu confirming that you wish to return the TPM to its factory defaults. Press <Enter> to clear the TPM, or press <Esc> to cancel without clearing the TPM.

Creating a Windows Login Password

If you didn't choose to do so during the initial setup procedure, the first step in securing your sensitive information is creating a Windows login password.

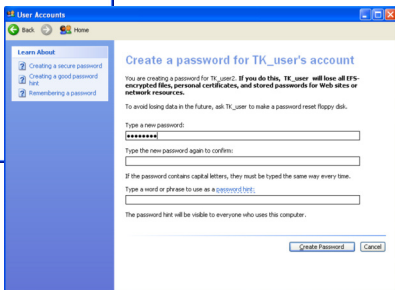
Creating the Password In Windows XP

1. Go to the START Menu and tap on "Control Panel".
2. In the Control Panel window that appears, tap on "User Accounts" under "Pick a category".
3. Look under "or pick an account to change" and select your user account by tapping on it.
4. Tap on "Create a password". Enter a password and then confirm it. Enter a password hint if you wish and then tap on "Create Password" to accept your password.



Tap on "Create a Password" to enter a new password. This is an important step in securing your data.

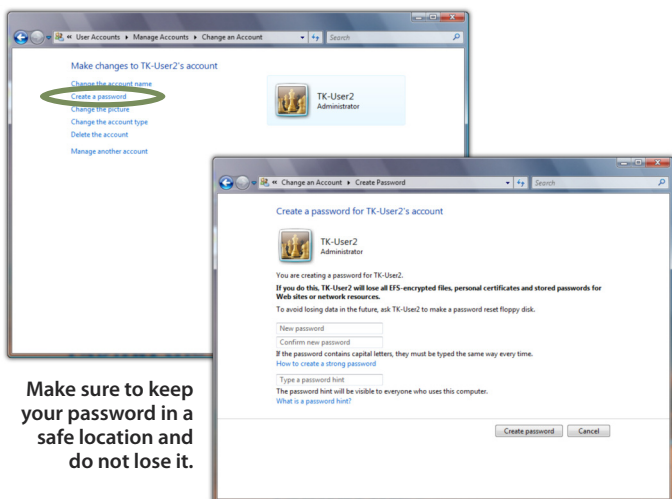
Make sure to keep your password in a safe location and do not lose it.



Creating the Password In Windows Vista

1. Go to the START Menu and tap on "Control Panel".
2. In the Control Panel window that appears, tap on the "User Accounts" category title.

3. Under the User Accounts category, tap on “Change your Windows password”.
4. From the “Make changes to your user account” screen, tap on “Create a password”.
5. Tap on the text input field labeled “New Password” in the window that opens and then enter a password of your choice. Tap in the “Confirm new password” field and enter it again exactly the same way. You may enter a hint in the “Type a password hint” if you so choose.
6. Tap the “Create password” button when you are satisfied with your password choice to commit the change.



It's important when setting up a user account to manage the security settings on the tablet that the user account be granted administrator privileges. A standard user can still take advantage of the protections provided by the TPM, just not manage it.

Contact your IT support staff for more information on user privileges and how to assign them.

Taking Ownership of the TPM

After initializing the TPM functionality in the BIOS, the next step to securing your Sahara Slate PC is to establish yourself as the tablet's owner.

Install and configure the TPM security management software package of your choice and then refer to the user manual that accompanied the software for information on how to accomplish this important task.



IMPORTANT: Once you have taken ownership of the TPM, it is vital that you store your password in a secure location and take care never to lose it. If you do, you will not be able to access the data you protected/encrypted using your security management software.

Enrolling Your Fingerprints in VitaKey

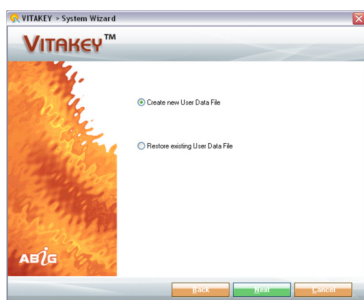
Now that you have established yourself as the owner, you can enroll your fingerprints. If your security management software doesn't support this feature, or isn't compatible with the AuthenTec AES1610 fingerprint reader in your Sahara Slate PC, you can use the included VitaKey software.

1. Locate the VitaKey application shortcut in the system tray and tap on it with the stylus pen to open the application menu and choose "System Wizard".

VitaKey system tray icon looks the same in both Windows XP and Vista.

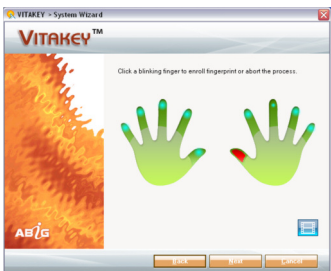
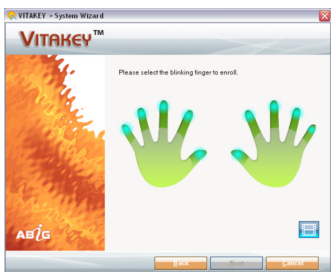
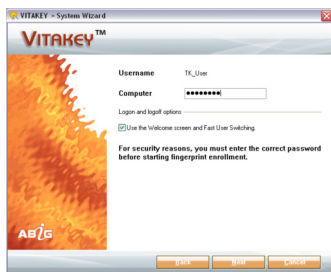


2. The first time you run the VitaKey application, you will be greeted with the System Wizard. Tap the "Next" button to begin the wizard or tap on "Cancel" to exit the wizard and close the application.

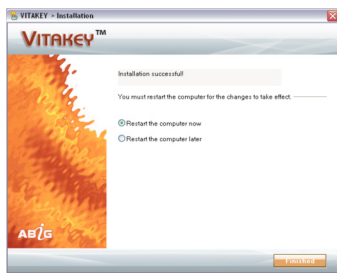


3. The wizard will give you the choice of either creating a new User Data file or restoring an existing User Data file. Tap the “Next” button to accept the default and create a new file.
4. Enter your Windows login password and tap the “Next” button.
5. Choose which fingerprint to enroll by tapping on the corresponding finger in the diagram. The window display will change and ask you to swipe the finger. Lay your finger on the front panel above the sensor and slide it downward over the sensor. If the read is successful, a sound will play and the number in the boxes below the hands will change to a fingerprint symbol. Repeat this procedure four times to successfully register your print. When you have enrolled all the fingerprints you wish, tap on “Next” to continue.

NOTE: For safety reasons it is recommended that you enroll at least two fingerprints.



6. Choose a location on your hard drive where you wish to store a back-up of the user data file. Tap on “Next” to accept the location and finish the set-up wizard.

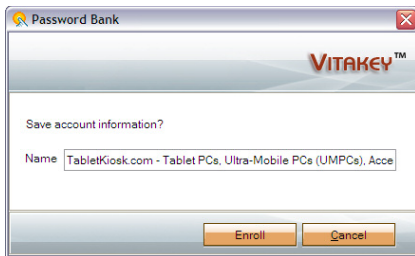


Setting Up Your VitaKey Password Bank

Now that your User Data file is established and your fingerprints enrolled, VitaKey will start managing passwords anytime you enter a username password combination in an application, a web page, or the Windows XP Login screen.

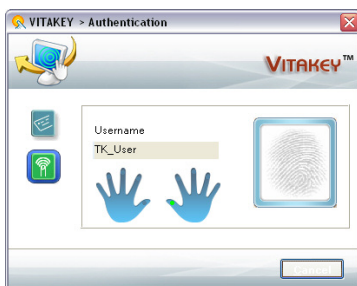
How to enroll a password into the Password Bank.

1. Launch your web browser and navigate to a website page where you would normally enter a username/password combination.
2. Enter your username and password and submit them. A VitaKey Password Bank window will automatically pop up asking you to name and save the account information.
3. Enter a name to identify the account in the password bank and tap the “Enroll” button. Your password is now enrolled.



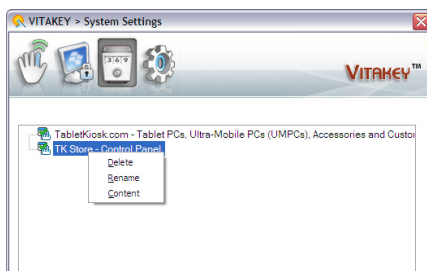
How to use an enrolled password

1. Launch your web browser and navigate to the website page where you enrolled your account information in the Password Bank.
2. Tap in the username field and a VitaKey Authentication window will open.
3. Swipe one of your fingers with an enrolled fingerprint to authenticate your identity.
4. The account data should automatically register with the site and you should now be logged in.



Managing the Password Bank

1. Launch the VitaKey System Settings application by either tapping on the VitaKey icon in the system tray and tapping on "System Settings" or by tapping on the START button and going to "All Programs > VitaKey > MC3020 > System > Systems Settings".
2. Swipe one of your fingers with an enrolled fingerprint to authenticate your identity.
3. Tap on the icon of a safe at the top of the application window.
4. In the bank list you wish to edit, tap and hold on an account.

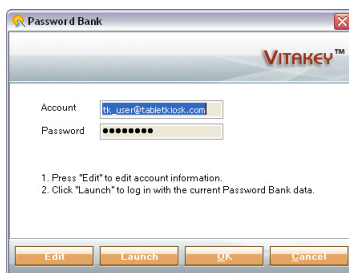


A context-sensitive menu will appear with the option to “Delete” the account from the bank, “Rename” the account or edit the “Content” of the account.

5. Tap on “Content” to open the account. You can now change the account username and password.

6. Tap on “Edit” to unlock the data fields for editing and display the account password.

When finished editing, tap on “OK” to accept the changes or “Cancel” to decline the changes.



Upgrading Your Sahara Slate PC

Out of the box, your new Sahara Slate PC is a powerful, mobile companion capable of accomplishing a wide variety of tasks with speed and precision. Depending on your system's configuration, there are still ways to make your Tablet PC do more and do it faster.

This chapter will focus on the procedures for upgrading, and/or replacing, your computer's memory (RAM), storage capacity (hard disk drive) and wireless networking card.

Before you Begin ANY Upgrade Procedure

Before attempting to add or remove any components within the Sahara Slate PC it is important that you always observe the following conditions/procedures:

1. Power off your computer, remove the power cable from the computer and remove the battery. Refer to the section entitled ***To Remove the Battery Pack***.
2. Disconnect any networking cables, modem cables and cables connected to other powered devices.
3. When disconnecting a cable from the computer, always pull on its connector, not on the cable itself. When reconnecting a cable, make sure that both the connector and the corresponding pins are aligned properly with the cable before attempting to secure it in place.

4. Handle all components with care. Do not touch the components or contacts on the cards or on the underside of the drives. Always hold such components by the edges or sides.
5. All electronic components inside a computer are sensitive to electrostatic discharges. It is therefore important that you properly ground yourself before attempting any of the following procedures either by using a wrist grounding strap or by periodically touching an exposed, unpainted metal surface.
6. You should only attempt upgrades and/or component replacements on a solid, clean, flat surface.

CAUTION: Damage resulting from the servicing of your computer that is not authorized by TabletKiosk is not covered by your computer's standard or optional extended warranty.

Upgrading Memory (RAM)

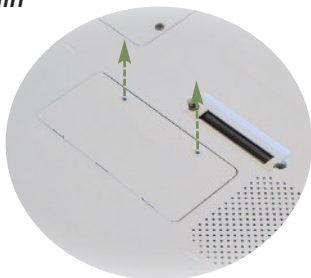
You can increase your tablet's memory by installing a RAM (Random Access Memory) module on the computer's system board. Typically, the more RAM your computer has, the better it will perform, especially when running multiple tasks or applications simultaneously.

Your Sahara Slate PC can accommodate two RAM modules. The primary module is factory installed on the motherboard underneath the display screen and cannot be upgraded by the user without voiding your computer's warranty. If you would like to upgrade this module, contact your dealer for instructions on sending your system in for service. The secondary module is located in the RAM compartment that is accessible on the back panel of the computer.

Refer to the following instructions and illustrations for information on how to upgrade your computer's secondary

memory module. Be sure to follow the procedures in the previous section, ***Before you Begin ANY Upgrade Procedure.***

1. Turn off your computer, turn it over and place it face down on a solid, flat surface. Be careful not to place it on something rough that could damage the display screen.
2. Locate the RAM module compartment near the center of the back panel of the system. Loosen the two screws that secure the RAM module compartment cover.
3. Lift the cover from the edge where the screw holes are located to remove it and set it aside. Inside is the RAM slot. Depending upon your system's configuration, it will either be empty or populated with an existing module.
4. If it is empty, proceed to step 6. Otherwise, using your fingers or a small screwdriver, press the two plastic tabs on the sides of the RAM module away from the module. The top edge of the RAM module should pop up slightly.
5. Gently pull out the RAM module as shown in the illustration.



6. To insert a new RAM module, align the connector pins on the bottom of the RAM module with the RAM module socket and slide the module into the socket. Once properly inserted in the socket, press the RAM module down until it clicks into place.



7. Replace the cover on this compartment and then replace and tighten the screws.



NOTE: Your Sahara Slate PC supports dual channel RAM. In order to take advantage of this higher bandwidth feature, you'll need to install a memory module that matches the primary module installed on the other side of the motherboard at the factory. Check with your dealer if you are unsure what module is currently installed in your system.

Upgrading the Hard Disk Drive (HDD)

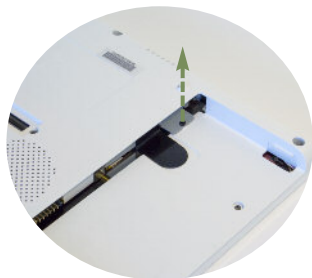
The computer's HDD is the storage facility that holds all the files on your computer. If you find you are running out of space, you might consider upgrading to a larger drive.

Typically, when a computer's HDD fills up, its access time begins to increase and your system seems to slow down. When this occurs, upgrading to a larger drive often will equate to better performance.

Your Sahara Slate PC comes pre-configured with a HDD that is easy to upgrade. Before installing a new hard drive, however, be sure to back up all of the files on your existing drive.

Refer to the following instructions and illustrations for information on how to upgrade your computer's HDD. Be sure to follow the procedures in the previous section entitled ***Before you Begin ANY Upgrade Procedure.***

1. Turn off your computer, turn it over and place it face down on a solid, flat surface. Be careful not to place it on something rough that could damage the display screen.
2. With the battery removed, look inside the battery compartment and you will see a black plastic strip sitting next to a metal tab held in place by a single screw. Remove the screw from the metal tab and place it somewhere safe.
3. Take hold of the plastic HDD release strip and gently pull the HDD out of its compartment as shown in the illustration.
4. Unscrew the existing drive from its cage and replace it with the new HDD. Once you have secured the new drive into the cage with the screws, slide it back into the HDD compartment.
5. Replace the screw into the metal tab that holds the drive cage in place.
6. After the HDD is securely inserted, you can insert the battery back into the battery compartment.



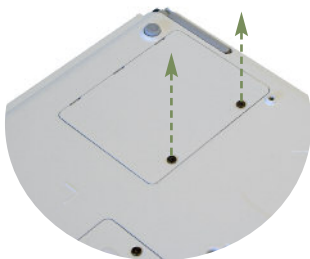
Replacing the Wireless Networking Card (Advanced)

Currently there are three standardized wireless networking protocols: 802.11a, 802.11b, and 802.11g. They offer various capabilities, transmission speeds and effective ranges. A fourth protocol, 802.11n, promises higher throughput and a longer operational range when it becomes a ratified standard.

The Sahara Slate PC was built with this new, impending standard in mind, and features a user-upgradeable wireless networking adapter. ***It should be mentioned, however, that while replacing the wireless card is not difficult, it is a more delicate and involved procedure than upgrading the RAM or HDD.*** If you are uncomfortable performing this upgrade yourself, please contact your dealer to arrange for an upgrade at their facility.

Refer to the following instructions and illustrations for information on how to upgrade your computer's wireless networking adapter. Be sure to follow the procedures in the previous section entitled ***Before you Begin ANY Upgrade Procedure.***

1. Turn off your computer, turn it over and place it face down on a solid, flat surface. Be careful not to place it on something rough that could damage the display screen.
2. Locate the compartment of the wireless networking adapter near the right side of the back panel of the system, just above the stylus pen holder. Loosen the two screws that secure the wireless compartment cover.
3. Lift the cover from the edge where the screw holes are located to remove it and set it aside. The wireless networking adapter, the 56K voice/data/fax modem and the Bluetooth adapter



are inside. The wireless adapter is located at the bottom of the slot and is seated inside a small slot connector.

4. The wireless card is held in place by two small screws. First, carefully remove the yellow tape covering the screws and antenna leads. Then remove the screws and set them aside in a safe place. Once the screws are removed, the card will pop up slightly.



5. Carefully slide the card out of the slot. Be sure to unclip the antenna leads from the card before fully removing the card from the interior of the compartment.



6. Take the new wireless networking card you obtained from your authorized dealer and attach the antenna leads. Carefully align the card and slide it into the connector slot.



7. Press downward on the card to push it into position and replace the screws that secure the networking card in place.
8. Replace the tape over the screws and antenna leads and replace the cover and tighten the screws that hold the cover in place.

Sahara

Chapter 08

Troubleshooting

This chapter describes how to locate information and solve some of the problems you may encounter while using your Sahara Slate PC. If after reading this section, you are still unable to solve a problem, please check out more online resources at www.tabletkiosk.com or contact the Authorized Dealer where you purchased your Tablet PC. See the section below entitled **Contacting Your Dealer** for a list of the information you will need to supply.

General Hardware Problems / Possible Causes and Solutions

A few common hardware problems and suggested solutions are presented in the tables below:

Audio Problems/Solutions

Problem	Possible Cause	Solution
There is no sound.	The volume is either muted or turned down.	Use the Microsoft Windows volume control icon at the lower right hand corner of the display to adjust the volume and disable muting.
No sound is coming through external speakers or headphones.	The speakers or the headphones are connected to the wrong jack.	Make sure to change the connector to the proper jack.
	Speakers are not powered on.	Make sure the speakers are plugged in and turned on.

Battery Problems/Solutions

Problem	Possible Cause	Solution
Beeping sound.	The computer's battery is low and Hibernation Mode is disabled.	Connect the computer to an external power source immediately.
The battery pack is warm after charging.	This is a normal condition.	No action is required.
The battery LED indicator does not light whether the battery is charging or not.	No power is connected to the computer.	Check the power source.
	The battery is fully charged.	Refer to the battery icon located at the lower right hand corner of your screen if you are operating on battery power.
	Battery pack was exposed to a high temperature.	Let the battery pack reach room temperature before attempting to charge again.
	The battery pack is nearing the end of its life.	Replace the battery pack. Use only batteries recommended for use with your specific model.
Battery charge gauge is not accurately displaying the remaining charge.	Battery pack requires calibration.	Calibrate the battery pack.

Internet Problems/Solutions

Problem	Possible Cause	Solution
The computer is unable to connect to the Internet.	Account for Internet service provider (ISP) is not properly configured.	Ask your ISP for assistance.
	No valid network connection detected.	Check the status bar to make sure you are connected to a valid network. If not, rerun the network set-up wizard.
	If connecting wirelessly, wireless card is turned off.	Look at the wireless power toggle on the top of the Tablet to make sure it is switched on.

Networking Problems/Solutions

Problem	Possible Cause	Solution
The computer does not see the network.	The networking cable you are using is defective.	Replace the cable.
The computer does not connect to the network.	The settings are not correctly set.	Contact your network administrator.
	If connecting wirelessly, wireless card is turned off.	Look at the wireless power toggle on the top of the Tablet to make sure it is switched on.
	If connecting wirelessly, network key is incorrect.	Reenter network key again carefully to make sure it is entered accurately.
The computer seems to connect, but doesn't see any other computers.	Correct workgroup or domain name is not set in computer's system properties.	Enter workgroup or domain name in "Computer Name" tab of the System Properties panel. Contact your network administrator if you don't know the proper name to use.

Power Problems/Solutions

Problem	Possible Cause	Solution
The computer is connected to an external power source but does not turn on even though the battery pack is connected.	The battery pack may be defective.	Replace the battery pack.
The Power/Standby light is off and the system turns off when it is left unattended.	The system has gone into Hibernation mode	Slide the Power toggle switch to the right and hold for a second to resume.
The system will not turn on after it turns off when left unattended.	The system has gone into Hibernation mode because it is in a critical low-battery condition.	Connect the computer to an external power source.

Screen Display Problems/Solutions

Problem	Possible Cause	Solution
The screen is blank.	The system has gone into Standby or Hibernation mode.	Slide the Power toggle switch to the right and hold for a second to resume.
	The external monitor display is selected	Check the external display and use the VGA utility to change back the primary display to the Tablet's internal screen.
The mouse pointer will not follow the stylus pen properly.	The digitizer screen calibration is off (i440D only).	Calibrate the display using the "Tablet and Pen Settings" control panel applet. If that does not fix the problem, you may need to recalibrate the display in the BIOS. Attach a USB keyboard to the tablet and restart. When you see the TabletKiosk logo screen, hit the <Delete> key to enter the BIOS. Use the right arrow key to navigate the "Advanced" screen. Arrow down to "Digitizer Calibration" and press <Enter>. Follow the on-screen instructions to calibrate the display and then hit <F10> to save changes and exit the BIOS.
	The touch screen calibration is off.	Rerun the calibration routine in the TouchSet Utility application.
You can not drag windows or icons when using the touch screen.	The touch screen is in Point Mode.	Run the TouchSet Set-up Utility and tap on the Configuration tab. Change the Operation Mode to "Stream Mode".
The screen does not rotate when the screen rotation button is pressed.	The VGA display driver is not set for rotation support.	Use the Intel Media Accelerator Driver control panel to enable the screen rotation option in the "Display Settings" tab.
	The VGA display drivers are corrupted.	This can happen over time. Check the website to make sure you have the newest available drivers, then uninstall the current drivers and install the new drivers.

Upgrade Problems/Solutions

Problem	Possible Cause	Solution
After upgrading the computer's RAM, the system does not boot up properly	The RAM module is not seated properly.	Following the instructions in the section entitled <i>Upgrading Your Memory</i> , try removing and reseating the RAM module.
	The RAM module is defective.	If reseating the module from the above step does not solve the problem, the RAM module could be defective. Contact your dealer for assistance.
After upgrading the computer's RAM the system begins to crash, seemingly at random intervals.	The RAM module is not seated properly.	Following the instructions in the section entitled <i>Upgrading Your Memory</i> , try removing and reseating the RAM module.
	The RAM module is defective.	If reseating the module from the above step does not solve the problem, the RAM module could be defective. First remove the RAM module and begin using your computer to make sure that nothing else is causing the crashes. If your system seems to be running Contact your dealer for assistance.
After replacing the HDD the system cannot boot into your Operating System.	The drive is not formatted.	Restart the system with an external CD/DVD drive attached and insert the System Installation or Restore Disc that came with your computer into the drive.
	The drive is not connected properly.	Following the instructions in the section entitled <i>Upgrading the Hard Disk Drive (HDD)</i> , try reseating the HDD in the bay.

USB Problems/Solutions

Problem	Possible Cause	Solution
An external device does not work when it is connected to one of the USB ports.	The external device is not receiving power.	Make sure that the external device is plugged into an electrical outlet.
	The external device is defective.	Try connecting the external device to another computer to determine if it operates properly.
	Windows is not recognizing the device properly.	Disconnect the device, power it off, reconnect the device and then turn it on.
		Disconnect the device, power it off, power it back on and then plug it back into the computer.

Contacting Your Dealer

If you still have a problem, the next step is to contact the dealer where you purchased your Sahara Slate PC.

Your dealer can determine if the problem will require that the computer be taken to a service center for repair. Before you call your dealer, please have the following information available:

1. Which model do you have?
2. What is the serial number?
3. How is your computer configured? What peripheral devices are you using?
4. What messages, if any, appear on the screen?
5. What software were you running at the time of the problem?
6. What have you done already to try to solve the problem? If you have overlooked a step, your dealer may be able to solve the problem over the phone.

Recovering Your System Using the System Restore DVD

Your Sahara Slate PC should have come with a System Restore DVD that matches the operating system that came preloaded on

your computer. If your system didn't come with a restore disc, please contact the dealer where you purchased your Sahara Slate PC to request a disc.

NOTE: You will need to supply your system's serial number located on the back of the computer with your request in order to receive your disc.

What you will need before you begin:

1. Included Windows® XP Professional, Windows® XP Tablet PC Edition, or Windows Vista® Business System Recovery DVD.

NOTE: It is important that you check to make sure that the disc you received matches the Operating System (OS) that came preloaded on your Sahara Slate PC. If it is not, please contact the dealer where you purchased your Sahara Slate PC for a replacement.

2. External USB (or eSATA) DVD drive with its own power supply (not USB powered)
3. USB keyboard
4. USB mouse
5. USB hub

Recovering Your System with the Windows Vista® Business System Restore Disc:



IMPORTANT: This process is destructive to the data stored on your hard drive. All existing data will be lost. It is vital you back-up any files you wish to keep before you proceed.

Step 1: Set up the required hardware:

Plug the USB keyboard and USB mouse into the USB hub and plug the hub into one of the available USB ports on the tablet. Plug the USB cable from the DVD drive into the remaining USB port of the tablet. Make sure that the i400 System Restore Disc is in the USB DVD drive and that the drive has power and is on.

Step 2: Booting the Sahara Slate PC to the Recovery Application on the System Restore Disc:

1. Power up your i400 series Tablet PC.

2. **If your drive has an existing partition (overwriting existing OS):**
When prompted, press any key to boot to the recovery DVD.
If your drive doesn't have an existing partition (new drive no OS): It will automatically load the recovery application.
3. Select the "Tools" Button and then the "Reset Partition" Button to continue.
4. Enter the partition size you wish to create for your OS. In general, you should use the number from the "Free Space" box as this will provide you with the largest system partition possible.
5. Select the File System desired: **FAT32** or **NTFS**. Click "Next" to continue. (*We recommend NTFS unless you require Windows 95/98/ME compatibility.*)
6. Select "OK" to proceed with partition creation.
7. Select "OK" if you understand that this process will **PERMANENTLY DELETE ALL THE EXISTING DATA ON THE DRIVE.**
8. Select "OK" once the drive has been partitioned and then "Cancel" to return to the main menu.
9. Select the "Restore Now!" Button.
10. Select "OK" to prepare the partition you created above, and then select "OK" again to restore the operating system.
11. Select "Quit" once the restore process completes to reboot your Sahara Slate PC.
12. Immediately eject the DVD or unplug the USB DVD drive from your Sahara Slate PC so the system will reboot from the restored hard drive.

Recovering Your System with the Windows® XP Professional and Tablet PC Edition System Restore Discs:



IMPORTANT: This process is destructive to the data stored on your hard drive. All existing data will be lost. It is vital you back-up any files you wish to keep before you proceed.

Step 1: Set up the required hardware:

Plug the USB keyboard and USB mouse into the USB hub and plug the hub into one of the available USB ports on the tablet. Plug the USB cable from the DVD drive into the remaining USB port of the tablet. Make sure that the i400 System Restore Disc is in the USB DVD drive and that the drive has power and is on.

Step 2: Partitioning the Hard Drive (required for a new Hard Drive only):

If you are simply attempting to restore your Sahara Slate PC using the hard drive that came with your system, you can skip this step and proceed to Step 3.

You will need to use the software that came with your new hard drive—or another third party program of your choosing that is designed to partition hard drives—in order to create a primary system partition to house the restored OS.

NOTE: At a minimum, any bootable disc containing Microsoft's "FDISK.EXE" utility should be sufficient.

Step 3: Booting the Sahara Slate PC to the Recovery Application:

- 1.** Power up your i400 series Tablet PC.
- 2.** It will start from the DVD and automatically load the recovery application.
- 3.** Select "OK" to proceed with partition creation.
- 4.** Select "OK" if you understand that this process will PERMANENTLY DELETE ALL OF THE EXISTING DATA ON THE DRIVE.
- 5.** Select "Quit" once the restore process completes to reboot your Sahara Slate PC.
- 6.** Immediately eject the DVD or unplug the USB DVD drive from your Sahara Slate PC so the system will reboot from the restored hard drive.

Sahara

Appendix A

Specifications

Processor

i412T:

- ❖ Intel® Celeron® M ULV 423
- ❖ 1.06 GHz, 32KB/32KB L1 caches, 1 MB L2 cache, 533 MHz Front Side Bus (FSB)
- ❖ Intel® Enhanced SpeedStep® Technology

i440D and i440T:

- ❖ Intel® Core™ Duo LV L2500 (rev A - released 2007)
- ❖ 2 CPU Cores @ 1.83 GHz, 32KB/32KB L1 caches, 2 MB shared L2 cache, 667 MHz FSB (rev A)
- ❖ Intel® Core™ 2 Duo LV L7400 (rev B - released 2008)
- ❖ 2 CPU Cores @ 1.5 GHz, 32KB/32KB L1 cache, 4 MB unified L2 cache, 667 MHz FSB (rev B)
- ❖ Intel® Virtualization Technology
- ❖ Intel® Enhanced SpeedStep® Technology

Chipsets

- ❖ Intel® 945 GM Express North Bridge with 533 MHz and 667 MHz FSB Support
- ❖ Intel® ICH7-M South Bridge with 10 GB/s full duplex DMI, PCI Express 1.0a
- ❖ ACPI 1.0b and 2.0 Compliant, supports C0-C4, S0, S3-S5 power states, Intel® SpeedStep® Technology

Memory

- ❖ 2x SODIMM DDR2 (Unbuffered, 64-bits/channel) slots with initial configurations of 512 MB - 2.0 GB
- ❖ Upgradeable to 4.0 GB with 2.0 GB SODIMMs
- ❖ Supports Single Channel, Dual Channel Symmetric, or Dual Channel Asymmetric DDR2 Configurations
- ❖ Supports Reduced Power DDR2 (RPDDR2)
- ❖ Intel® Rapid Memory Power Management

Battery

- ❖ Rechargeable 6-Cell Lithium Ion Smart Battery Pack (3800 mAh @ 11.1 V, 42W/hr)
- ❖ Over Charge Protection, Over Discharge Protection, Over Current and Output Short Protection, Over Thermal Protection

Hard Drive

- ❖ 2.5" 9.5 mm, Ultra DMA SATA 150 MB/s
- ❖ Configurations from 60 GB to 250 GB @ 5,400 rpm
- ❖ Configurations from 60 GB to 200 GB @ 7,200 rpm

Video

- ❖ Intel® GMA 950 PCI Express, 250 MHz Core Render Clock at 1.05V core
- ❖ DirectX 9.1 Compatible, Intel® Dual Frequency Graphics Technology, Intel® Dynamic Video Memory Technology 3.0
- ❖ Intel® Smart 2D Display Technology, High Performance MPEG-2 Decoding, VLD/iDCT Hardware Acceleration
- ❖ Windows® Aero (Glass) Technology Capable
- ❖ Screen rotates 0°, 90°
- ❖ 1024 x 768 Landscape, 768 x 1024 Portrait
- ❖ Dual Display Support

- ❖ External Display up to QXGA (2048 x 1536) with CRT Hot Plug support

Display

- ❖ 12.1" TFT XGA LCD Wide Angle Display
- ❖ Sunlight Viewable Screen (*Optional on Rev A, Standard on Rev B*)

i412T and i440T:

- ❖ Passive Resistive Touch Screen

i440D:

- ❖ Dual Mode Wacom® Active Digitizer and Fujitsu® Resistive Touch Screen, Hot Mode Switchable

Audio

- ❖ Intel® High Definition Audio Interface (ICH7-M)
- ❖ Independent Bus Master Logic for eight (8) general purpose streams: 4 in / 4 out
- ❖ ALC262-VC2-GR HD Codec
- ❖ AC '97 Compatible
- ❖ Multichannel 32-bit / 44.1KHz/48KHz/96KHz/192KHz sampling rate output (DAC)
- ❖ Multichannel 32-bit / 44.1KHz/48KHz/96KHz sampling rate input (ADC)
- ❖ Built-in Stereo Speakers and Dual Digital Microphone Array for added fidelity and accuracy
- ❖ 3.5 mm Headphone & Microphone Plug 'n Play Jacks

Wireless

- ❖ Intel® Pro 3945 Dual-Band/Tri-Mode 802.11 a/b/g Networking with Power ON/OFF Switch
- ❖ 802.11 d/e Quality of Service (QoS), 802.11h (Active Client Radar Detection) support

- ❖ 64-bit and 128-bit WEP Encryption, Hardware AES (128-bit, 192-bit, 256-bit key sizes)
- ❖ Supports IEEE 802.11 Power Save Protocol (PSP)
- ❖ Bluetooth® 2.0+EDR built-in USB module with Power ON/OFF Switch

Finger Print Reader (Functionality)

- ❖ AuthenTec, Inc. AES1610
- ❖ Patented TruePrint Technology for best Ability to Acquire (ATA)
- ❖ High Definition 128x8 TruePrint Technology based pixels
- ❖ 6.5mm x .40mm 500 pixel per inch array
- ❖ USB 2.0 High Speed interface with Suspend and Remote Wake-up
- ❖ Full Support for C3 Selective Suspend Mode
- ❖ Built-in Low Power Finger Detection with Remote Wake-up capability

TPM Security

- ❖ Single-Chip Trusted Platform Module (TPM)
- ❖ Embedded TPM 2.1 Firmware
- ❖ TPM Administration Tool provides Owners/Users Management and Key Archive Policies
- ❖ Trusted Group Computing (TCG) v1.1B / v1.2 configurable mode of operations

Expansion Slot

- ❖ PCMCIA 2.1 Compliant, Supports one (1) Type II 32-bit PC Card Bus Architecture

I/O Ports

- ❖ 1x RJ-11 56Kbps v.90 Fax/Modem
- ❖ 1x RJ-45 10/100/1000 Mbps Full Duplex (2.5 Gbps single-lane channel) Ethernet
- ❖ 2x USB 2.0
- ❖ 1x IEEE 1394a, 6-pin
- ❖ 1x eSATA
- ❖ 1x DC-In
- ❖ 1x 3.5mm Audio Out, 1x 3.5mm Audio In
- ❖ 1x VGA port, HD15
- ❖ 1x Cradle Connector

Weight

- ❖ 3.57 lbs. (1.62 kg) with Battery Pack Installed

Measurements

- ❖ 11.81 in x 8.66 in x 1.02 in (300 mm x 220 mm x 26 mm)

Case Color

- ❖ White or Black

LED Indicators

- ❖ Power (ON: blue, Standby: blinking)
- ❖ Battery (Charging: amber, Low: red blinking, Fully charged with DC connected: green)
- ❖ Hard Drive (Activity: blue blinking)
- ❖ Wireless Networking (Active: blue)
- ❖ Bluetooth® (Active: blue)

Function Buttons (L)

- ❖ SAS (Ctrl+Alt+Del)
- ❖ Screen Rotation
- ❖ Volume Up
- ❖ Volume Down

Function Buttons (R)

- ❖ Digitizer/Touch Screen Mode Toggle (*i440D only*) and User Programmable (*i412T and i440T*)
- ❖ User Programmable
- ❖ User Programmable
- ❖ User Programmable

Control Switches

- ❖ Power Switch
- ❖ Wireless Networking On/Off
- ❖ Bluetooth® On/Off

Finger Print Reader (Physical)

- ❖ Lead-Free 40 Ball Grid Array (BGA) Package
- ❖ Ultra-Hard Wearing Surface Coating is scratch and impact resistant
- ❖ Rated for over 10 million rubs without degradation
- ❖ 0°C to +70°C Operating Temperature Range
- ❖ IEC 61000-4-2 Level 4 ESD Immunity (+/- 15KV)

AC Adapter

- ❖ 100~240V, AC 47~63 Hz, 20V DC output, 3.25A, 65W adapter
- ❖ SCP: Short Circuit Protection plus Auto-Recovery Function
- ❖ OVP: Over-Voltage Protection, Latch Mode, up to 27.0Vdc maximum
- ❖ OCP: Over-Current Protection, Auto-Recovery, up to 5.5A maximum
- ❖ OTP: Over-Temperature Protection to prevent catastrophic failure from overheating.

Operating Environment

- ❖ Temperature: 5°C ~ 35°C (41°F ~ 95°F)
- ❖ Humidity: 20% ~ 80% (no condensation)

Sahara

S L A T E P C[®]



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