

## BASIC OPERATION GUIDE

# Nova's SunPad

## Wireless Digital Tablet

### INTRODUCTION

Thank you for acquiring the latest addition to DT Research's line of tablet devices—the **SunPad**. Featuring a slim yet robust magnesium alloy enclosure, the sub-2lb **SunPad** with 8.4" TFT display is powered by the AMD Geode™ LX 800 processor, offering optimal combinations of performance and power savings. An external battery expansion option provides approximately 3–4 hours of additional battery operation for up to six hours of mobile usage.

The **SunPad** is available in Windows® CE, Windows XP Embedded, or Windows XP Tablet PC operating systems. Each software operating system features web browser, client/server computing software, media player, accessories, and applications support.



### Package Contents

- ▶ SunPad (Battery Pack built-in) with Stylus and Bumpers
- ▶ AC-DC Power Adapter with Power Cord
- ▶ Basic Operation Guide (CD or Printed)
- ▶ Major options, depending on configuration:
  - Charging Cradle with DC-in Power Jack and Ethernet/USB Ports
  - External Battery Charger Kit
  - Desktop Stand
  - Handstrap
  - External Battery Pack
  - Carrying pouch

# The Nova SunPad (with Windows XP)



## Button Functions (with Windows XP Operating System)

BUTTON	DESCRIPTION	ACTION
1	Power Button	Push/release typically enters Standby mode, or Push/release exits Standby mode or restarts device (software dependent) Push and hold (over 4 seconds) invokes hardware shutdown
2	First in group of four	Programmable, Launch soft (on-screen) keyboard (Default)
3	Second in group of four	Launch SAS (Secure Attention Sequence) Generate Ctrl+Alt+Del keys to invoke the security windows defined under Windows XP. For Windows CE, this button is programmable.
4	Third in group of four	Programmable, Change display orientation (Portrait or Landscape) (Default)
5	Fourth in group of four	Programmable, System Menu (Default)
6	Left edge of button	Programmable, Arrow Left (Default)
7	Right edge of button	Programmable, Arrow Right (Default)
8	Upper edge of button	Programmable, Arrow Up (Default)
9	Lower edge of button	Programmable, Arrow Down (Default)
10	Wireless LAN Button	Programmable (Default: Launch 802.11 WLAN on/off control)

**Note:** Buttons 2, 4–10 may be re-programmed through a Button Agent utility.

## Precautions

- ▶ Always exercise care when operating and handling the *Nova SunPad*.
- ▶ Do NOT apply excessive pressure to the display screen.
- ▶ We recommend using the Stylus provided to keep the screen clean.
- ▶ Avoid prolonged exposure of the display panel to direct sunlight or other heat source. Wherever possible, the *Nova SunPad* should face away from direct light to reduce glare.
- ▶ If the AC-DC power adapter is used to recharge or power the device, do NOT use any AC-DC adapter other than the one provided with the device or acquired from the manufacturer or its partners.
- ▶ In the unlikely event that smoke, abnormal noise, or strange odor is present, immediately power the *Nova SunPad* off and disconnect all power sources. Report the problem to your device provider immediately.
- ▶ Never attempt to disassemble the *Nova SunPad*, as this will void the warranty.
- ▶ Fingerprint sensor: Operate with clean fingers and do not apply sharp objects to its surface.

## The Nova SunPad

### Basic Features

The *Nova SunPad* wireless tablet integrates a bright and responsive touch display, a USB port, and embedded networking elements such as wireless LAN and Bluetooth. The primary device is complemented by a suite of accessories, including battery expansion, docking cradles, and carrying cases, for a comprehensive user experience.

A *Nova SunPad* typically integrates an 802.11b/g or 802.11a/b/g wireless LAN (WLAN) adapter that may connect to other wireless devices or access points. If your *Nova SunPad* does not come with such a network adapter, please consult your device provider to establish the desired network connectivity.

## OPERATION

### Internal Battery Switch

To prevent battery drain during shipping and extended storage, the internal battery may be turned off. To turn on the internal battery, push the battery button switch (on the back panel) to the “up” position (see page 2 for photo).

The internal battery pack has to be turned on for it to operate, be charged, and for the optional external battery pack to function.

## **Powering ON and OFF**

To activate the *Nova SunPad*, push and quickly release the Power Button to the left of the front bezel. The display will come on in a few seconds. To put the *Nova SunPad* in Standby mode, push and quickly release the Power Button. To turn the *Nova SunPad* off for extended storage, power off the device safely using any software function that “shuts down computer” provided in the software operating system.

**NOTE:** The battery packs shipped with your device may be low in power—please use the AC-DC adapter with the *Nova SunPad* when setting up the device for the first time to fully charge the internal battery pack. You may charge the external battery pack with it attached to the *Nova SunPad*, or with the optional external battery charger kit.

**NOTE:** When the battery pack(s) is (are) charging, the blue-colored Battery LED should blink slowly. If plugging in the AC-DC adapter does not trigger this blinking activity and the LED stays dark, the battery pack(s) may have been drained substantially. Try unplugging/replugging the AC-DC adapter to the *Nova SunPad* a few times to activate the charging process.

**NOTE:** To conserve power, use (push and quick release) the Power Button to put the device in “Standby” mode while not in use. Pushing briefly on the same button will wake up the system within seconds.

**NOTE:** Avoid using the Power Button (“hold 4+ seconds” feature) to turn off the device—this form of hardware shutdown is intended to be a means of recovery from device lockups, and not as normal operation.

## **Start Up**

If the power up (from Standby or otherwise) is successful, the appropriate interface will be displayed after a launch sequence of several seconds. The wireless LAN connection may take 10-15 seconds to be established.

## **Configuring the Nova SunPad**

The device may be configured using the utilities and methods dictated by the software operating system. The *Nova SunPad* should be configurable for various properties such as user profiles, network features, and several system elements.

## Calibration

The touch display for the *Nova SunPad* is calibrated before shipping. In the event that the calibration has been modified or is unsatisfactory, the respective calibration routines (e.g., PenMount (PM) for Windows XP) to calibrate the touch interface may be used. Such applications are typically executed through touch input via Stylus or through mouse click via a USB mouse.

**NOTE:** For Windows CE, calibration may be initiated from Stylus application in the Control Panel or by simultaneously pressing Buttons 2 and 6.

## Wireless Networking

### Wireless LAN

The *Nova SunPad* is often delivered with an embedded (user-inaccessible) 802.11a/b/g WLAN adapter equipped with a hidden custom antenna. This embedded interface is supplemented by a user-accessible PCMCIA slot for use with third-party network adapters or peripherals.


- ▶ Through the support of typical WLAN adapters, the *Nova SunPad* should be able to detect all 802.11 access points in the vicinity for you to select the access point of your choice for connection.
- ▶ The SSID and WEP (if enabled) parameters on the *Nova SunPad* and the access points have to match. The SSID is case-sensitive and it is recommended that you enable WEP encryption (or advanced alternatives) for secure access.
- ▶ When WEP is enabled, you may need to consult your network administrator or your networking equipment literature to properly configure associated settings such as Authentication mode, etc.
- ▶ Refer to the access point operating manuals for setting up the 802.11 access points


### Bluetooth

The *Nova SunPad* features a built-in Bluetooth adapter that operates on the Microsoft Windows Bluetooth protocol. The Bluetooth configuration application is invoked from the System Tray or from the Control Panel for Windows XP. Under Windows CE, it can be executed from the Control Panel. Follow the instructions and options provided within the application to configure and invoke Bluetooth connectivity with the corresponding peripherals.

**NOTE:** Bluetooth devices or accessories that are not compatible with the Microsoft Windows Bluetooth protocol may not work with the *Nova SunPad*.

## Button Management

Where supported by software, many of the hard buttons on the *Nova SunPad* are programmable to perform a function of the user's choice. The exception is the Power Button and the SAS Button. To activate the button re-assignment application, invoke the Button Agent application, e.g., in Windows XP Embedded .

**NOTE:** For Windows CE, click on Start → Settings → Control Panel, then double click on Button Settings .

## Biometric Fingerprint Reader

You can swipe your finger on the sensor to scan your fingerprint for user authentication.

This feature provides a secure method to manage your *Nova SunPad*. The sensor application can serve as a control center to protect your tablet from intruders. Your *Nova SunPad* may be delivered with an application that facilitates the use of this reader. Consult your device provider if you do not have access to such an application.

## Brightness Control

Where supported by device firmware and software, a hard button may be engaged to manipulate the display brightness. Press the System Menu button (Button 5) on the front of the *Nova SunPad*. The System screen will display a Brightness control section with up and down arrows that can be activated with the stylus.

**NOTE:** For Windows CE, select the Brightness icon in the Control Panel. User may also use Buttons 8 and 9 to increase or decrease brightness.

## Battery and Power Management

The *Nova SunPad* is equipped with an internal Li-Ion battery pack that is capable of supporting approximately 1.5–2 hours of continuous operation. The period of continuous operation can be extended by approximately 3–4 hours with the external battery pack that clips (hot-pluggable) onto the back of the device. The period between battery recharges can be significantly lengthened by putting the device into Standby mode through the Power Button (see Buttons Function Table) whenever the device is not in use. Depending on the operating

software, the *Nova SunPad* may also be configured to enter various power-saving modes via the Power Button or through timed entry.

### **Desktop Cradle**

The *Nova SunPad* is complemented by an optional Desktop Cradle for support, pass-through charging, and connection to a range of USB peripherals, including keyboard and mouse. The Cradle offers the following interfaces: a DC-in port for the AC-DC adapter, an Ethernet port, and USB ports. Always seat the *Nova SunPad* securely onto the cradle. The cradle must be powered by the AC-DC adapter for the Ethernet and USB ports to function. The battery packs on the *Nova SunPad* may be recharged by connecting the AC-DC adapter directly to the DC-in port on the *Nova SunPad* or through the DC-in port on the Desktop Cradle while the *Nova SunPad* is docked to the Cradle.

## **USING THE** *Nova SunPad*

### **Memory configuration**

The *Nova SunPad* is available in various memory configurations. They currently range from: 64MB to 8GB of flash memory and 256MB, 512MB, or 1GB of RAM.

**NOTE:** Users may supplement their embedded flash memory space with CompactFlash storage cards and USB-based peripherals such as USB flash disks, USB disk drives, etc.

### **Peripherals Support**

Through its USB ports, the *Nova SunPad* supports a wide range of USB-based peripherals. These peripherals are applicable for software installation, applications storage, data storage, and system software recovery and updates. The *Nova SunPad* is also compatible with custom mountable cradle options. These securable and mountable cradle options provide an interface to VESA mounts and arms, and to ports that may include USB, Ethernet and pass-through power.

### **Remote Management**

Depending on software configuration, the *Nova SunPad* can be centrally managed for asset monitoring and for software control. Please consult your device provider.

## SPECIFICATIONS

<b>Display</b>	8.4" Hi-Brite TFT LCD with resistive touch and outdoor-viewable option
<b>Display Resolution</b>	800 x 600 (SVGA)
<b>Processor</b>	AMD Geode™ LX 800
<b>Memory (flash)</b>	64MB – 8GB
<b>Memory (RAM)</b>	256MB; 512MB; 1GB
<b>Software Operating Systems</b>	Windows CE; Windows XP Embedded; Windows XP Tablet PC Edition
<b>Storage</b>	Internal flash module; 30GB HDD
<b>Stylus</b>	Non-electronic tip
<b>Protective Bumpers</b>	Two rubber bumpers with optional adjustable hand strap, adds drop protection
<b>Network Interface</b>	PCMCIA; USB; Integrated 802.11; Bluetooth built-in
<b>Input and Control Buttons</b>	Four (4) front buttons; One (1) oval 4-way; One Power (left edge); One "Trigger" (right edge); Internal battery control switch
<b>Authentication</b>	Biometric fingerprint reader
<b>Input/Output Ports</b>	12V DC-in Jack; Microphone-In; Headset jack; USB 2.0 Port
<b>Enclosure</b>	Magnesium-Aluminum alloy
<b>AC/DC adapter</b>	Input: 100-240VAC, 1.2A; Output: 12VDC, 3.5A
<b>Power Cords</b>	North America, EU, UK
<b>Battery Packs (Lithium-Ion)</b>	Internal (14W); Optional external (28W, 0.5lb), and optional tethered pouch (72W, 1lb)
<b>Desktop Cradle</b>	Optional: Pass-through for power; Ethernet, USB 2.0 ports
<b>Desktop Stand</b>	Optional: Aluminum parking stand
<b>Dimensions (H x W x D)</b>	7.9 x 9.6 x 0.8 (in); 200 x 240 x 18 (mm)
<b>Base Weight</b>	1.9 lbs (0.86 kg)
<b>Regulatory</b>	FCC Class B, CE, UL, RoHS compliant
<b>Operating Temperature</b>	0° – 40°C
<b>Humidity</b>	0% – 90% non-condensing

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