

BASIC OPERATION GUIDE

Nova SunPad 10.4" Wireless Digital Tablet

INTRODUCTION

Thank you for acquiring the latest addition to DT Research's line of tablet devices—the *Nova SunPad*. Featuring a slim yet robust magnesium enclosure, the two-pound *Nova SunPad* with 10.4" 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 *Nova 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

- ▶ *Nova SunPad* with Internal Battery Pack, Stylus, Bumpers, and Screen Cover
- ▶ AC-DC Power Adapter with Power Cord
- ▶ Basic Operation Guide
- ▶ 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 case

The Nova SunPad (with Windows XP)



Button Functions (with Windows XP Operating System)

BUTTON	DESCRIPTION	ACTION
1	First in group of three	Programmable
2	Second in group of three	Programmable
3	Third in group of three	Programmable
4	First in group of four	Programmable, launch soft (on-screen) keyboard (default)
5	Second in group of four	Launch SAS (Secure Attention Sequence) Generate Ctrl+Alt+Del keys to invoke the security windows defined under Windows XP
6	Third in group of four	Programmable, Change display orientation (portrait/landscape) (default)
7	Fourth in group of four	Programmable, system utility menu (default)
8	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

Note: Buttons 1–4, 6 and 7 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 any strong 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 off the *Nova SunPad* 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 (if present): 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, two USB ports, a VGA 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.

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  .

Biometric Fingerprint Reader (if available)

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 7) 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.

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.

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 equipped with a built-in VGA port, allowing displayed content to be mirrored on an external display for clear, shared viewing. The *Nova SunPad* is also compatible with custom mountable cradle options. These securable and mountable cradles 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

Display	10.4" Hi-Brite TFT LCD with resistive touch and outdoor-viewable option
Display Resolution	1024 x 768 (XGA)
Processor	AMD Geode™ LX 800
Memory (flash)	64MB – 8GB
Memory (RAM)	256MB; 512MB; 1GB
Software Operating Systems	Windows CE; Windows XP Embedded; Windows XP Tablet PC Edition
Storage	Internal flash module; 30GB HDD
Stylus	Non-electronic tip
Protective Bumpers	Two rubber bumpers with optional adjustable hand strap
Network Interface	PCMCIA; USB; Integrated 802.11; Bluetooth built-in
Input and Control Buttons	Seven (7) front buttons; One Power (left edge); Internal battery control switch
Authentication	Biometric fingerprint reader
Input/Output Ports	12V DC-in Jack; Microphone-In; Headset jack; (2) USB 2.0 Ports; VGA
Enclosure	Magnesium-Aluminum alloy
AC/DC adapter	Input: 100-240VAC, 1.2A; Output: 12VDC, 3.5A
Power Cords	North America, EU, UK
Battery Packs (Lithium-Ion)	Internal (14W); Optional external (28W, 0.5lb)
Desktop Cradle	Optional: Pass-through for power; Ethernet, USB 2.0 ports
Desktop Stand	Optional: Aluminum parking stand
Dimensions (H x W x D)	8.3 x 10.3 x 0.8 (in); 210 x 261 x 18 (mm)
Base Weight	2.05 lbs (0.93 kg)
Regulatory	FCC Class B, CE, UL, RoHS compliant
Operating Temperature	0° – 40°C
Humidity	0% – 90% non-condensing

Nova Mobility Systems Inc tel 408.934.6155
8604 Cliff Cameron Drive, 144 fax 408.934.6222
Charlotte, NC 28269 USA