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You can read the recommendations in the user guide, the technical guide or the installation guide for NEC MOBILEPRO 790. You'll find the answers to all your questions on the NEC MOBILEPRO 790 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual NEC MOBILEPRO 790
User guide NEC MOBILEPRO 790
Operating instructions NEC MOBILEPRO 790
Instructions for use NEC MOBILEPRO 790
Instruction manual NEC MOBILEPRO 790

NEC MobilePro™ Handheld Personal Computers

MOBILEPRO 790



USER'S GUIDE

NEC



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Manual abstract:

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5-6 Troubleshooting Specifications Index A-1 B-1 Contents v Using This Guide The NEC MobilePro™ 790 User's Guide gives you the information you need to maximize the use of your NEC MobilePro 790 Professional PC Companion. Read this guide to familiarize yourself with the MobilePro and its features. For specific information, see the following. ! Chapter 1, "Getting Started," provides all the information you need to get your MobilePro 790 working and synchronized with your host PC. Chapter 2, "Tre and that they are in good condition. If anything is missing or damaged, contact the vendor who sold you the unit. Note Do not use the unit without the batteries installed. Be sure you have completed the sections, "Installing and Charging the Battery," "Connecting the AC Adapter," and "Taking a Quick Tour," later in this chapter. ! ! ! ! ! NEC MobilePro 790 (a stylus ships in a holder in the MobilePro) NEC MobilePro AC Adapter (varies by country) NEC MobilePro PC Connect Cable (serial cable) NEC MobilePro RJ-11 cable (telephone cable) Modem adapters provided according to country requirements. One (1) rechargeable Lithium-Ion Battery pack (main battery) Microsoft ActiveSync software (CD-ROM inside a Microsoft-labeled bag) NEC MobilePro 790 User's Guide (this document) NEC MobilePro 790 Release Notes ! ! Note The AC adapter provided with your model may vary based on country-specific requirements.

Getting Started 1-3 Getting to Know Your MobilePro The NEC MobilePro 790 offers you a portable system designed for synchronization with your host PC. Standard features include a VR4121, 168-MHz, 48-MB memory (32-MB RAM plus 16-MB Internal Flash ROM), an 8.1-inch half-VGA STN, 64K color, enhanced touch screen, a V.90 internal modem, a built-in microphone, internal speaker, and Type I/II PC card and CompactFlash™ Type II card support. NEC MobilePro 790 With your NEC MobilePro you can edit, create, send, and receive documents including text, spreadsheets, presentations, and email, manage your schedule and contacts, access the Internet with the internal modem, and synchronize data with your host PC. Your MobilePro does not have a hard disk drive. The operating system and preloaded applications are deployed on a Read-Only Memory (ROM) module; files that you work on are stored in Random Access Memory (RAM) on a RAM module.



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Your NEC MobilePro comes with a stylus, a pen-like device that allows you to touch, tap, or double tap objects on the MobilePro touch screen. The touch, tap, and double tap act just like a point, click, and double click of a mouse. 1-4 Getting Started Accessories The NEC MobilePro 790 ships with the following accessories: !!! AC adapter (varies by country) PC Connect (serial port) cable Modem adapter (countries other than U.

S.) RJ-11 Telephone cable For a comprehensive list of MobilePro accessories, including optional extras such as the VGA monitor connector cable, refer to the MobilePro desktop. Tap Start, Help, and double tap the MobilePro Accessories link. Note The AC adapter provided with your model may vary based on country-specific requirements. Installing and Charging the Battery Follow these steps to install and charge the main battery. 1. Unpack the contents of the MobilePro carton and locate the unit and the Lithium-Ion battery pack. Lithium-Ion battery pack A Battery connectors 2. 3. B Lithium-Ion battery pack Locate the release lock on the bottom of the system.

Slide the lock to the unlocked position in the direction of the arrow, as indicated in the upcoming figure. Getting Started 1-5 Note You cannot use your MobilePro when the battery lock is in the unlocked position. Be sure to slide the lock back to the locked position. 4. Put the Lithium-Ion battery pack in the bay and slide the battery in the direction of the arrow, as indicated in the following figure. Inserting the battery pack A Battery release lock 5. 6. 7. B Lithium-Ion battery pack Firmly press the battery until it is secure and clicks (locks) into place. Slide the lock back to the locked position.

The NEC MobilePro will not power on when the lock is in the unlocked position. Connect the AC adapter to begin charging the battery. Refer to the next section, "Connecting the AC Adapter," for connection information. The color of the left status LED changes from amber to green when the battery is fully charged. 1-6 Getting Started Note Before using the system for the first time, charge the MobilePro continuously for 6-10 hours to fully charge the main and backup batteries.

Allow the 6-10 hours to pass even if the indicator light changes from amber to green before the 6-10 hours have passed. To protect your data, do not use the system until the backup battery is fully charged. Recharge the battery whenever the battery charging LED lights amber. You must repeat this full 10-hour charge cycle only if the backup battery becomes fully discharged. Getting Started 1-7 Connecting the AC Adapter NEC recommends using the AC adapter when you: !!! Recharge the main battery pack or the backup battery Use PC cards or Compact Flash™ cards Use the internal modem Keep your MobilePro on for long periods Follow these precautions whenever you use the AC adapter and the NEC MobilePro.

When using the AC adapter, make sure the AC outlet is near the NEC MobilePro and is easily accessible. Keep the main battery installed when running on AC power. When communicating or sending transmissions for a long time, use the AC adapter to conserve power. Follow these steps to connect the AC adapter.

1. Insert the plug on the AC adapter cable into the AC power port on the left side of the NEC MobilePro. Note The AC adapter provided varies based on country-specific requirements. 1-8 Getting Started Connecting the AC adapter A AC power port B AC adapter cable (varies by country) 2. Connect the AC adapter as follows. !!! U.

S./Canada model: plug the AC adapter to a working AC outlet. European model: plug one end of the AC power cable into the AC adapter and the other end into a working AC outlet. 3. Power on the NEC MobilePro using the Power button at the top right corner of the keyboard. Using AC power saves battery life when you are on the go, ensures that the backup battery maintains its charge, and helps prevent data loss. If you power off, then quickly power on the NEC MobilePro, your system may erroneously report the presence of CompactFlash cards. In addition, repeatedly powering off and quickly powering on, may cause data loss. NEC recommends that you wait ten seconds after powering off, before powering on the NEC MobilePro. Continue working with the NEC MobilePro 790 as it charges and leave it connected to AC power after the light turns green.

Getting Started 1-9 Note Before using the system for the first time, allow ten hours for both the main and the backup batteries to fully charge, even if the indicator on the front of the MobilePro lights green before the full ten hours are passed. Taking a Quick Tour This section takes you through the process of setting up your system for the first time. 1. Open the display panel to start your NEC MobilePro 790 for the first time. Press the Power button if the system does not start automatically.

Follow the on-screen instructions to calibrate the touch screen. Press Ctrl Alt = to recalibrate at any time. Enter your name, local city, and set the clock for your local time. Be sure to specify a country for modem use. For details, see the section in Chapter 4, "Adjusting MobilePro Settings.

" 2. 3. 4. Introducing the Software Your NEC MobilePro 790 features the latest version of Microsoft Windows Handheld PC 2000 software along with an additional application on the accompanying CD. Your NEC MobilePro 790 software includes: ! Microsoft ActiveSync CD (Install on your host PC for access and synchronization.) Microsoft Windows CE operating system pre-loaded (in ROM) applications. ! For more information about your MobilePro software, refer to Chapter 3, "Introducing Windows CE." 1-10 Getting Started Connecting to Your PC via Serial The MobilePro is designed to be a companion PC. Most users want to synchronize the MobilePro 790 with a host PC. The latest work done on either the MobilePro or the host PC automatically appears on both machines, once the synchronization process occurs.

The following section provides an overview of the synchronization process, using the serial port, followed by detailed instructions for each stage of the process. Follow these procedures to configure your MobilePro for synchronization using the serial port. ! Verify the accuracy of the PC Connection default settings on your MobilePro. Ensure the availability of the serial port on your host PC. Connect the PC Connect (serial) cable to your host PC and to your MobilePro. Install Microsoft ActiveSync on your host PC. Create a partnership between your host PC and your MobilePro. Verify that the desired synchronization services are configured. !!! Verifying PC Connection Settings Your MobilePro ships with PC Connection default settings. Follow these steps to verify the accuracy of the PC Connection settings.

1. 2. 3. Tap Start, Settings, Control Panel.



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Double tap the Communications icon and select the PC Connection tab.

Verify the following settings. ! "Allow connection with desktop computer when device is attached" is checked. "Connect using Serial Port @ 115K" displays. (Change this setting to 115K, if necessary. If synchronization is unsuccessful, revert to the default setting of 19200, or check your PC to verify it is communicating at 115k.

) Getting Started 1-11 ! Proceed to the next section to check the availability of the serial port on your host PC. Ensuring the Availability of the Serial Port The serial port on your host PC must be available for synchronization with your NEC MobilePro. Follow these steps to ensure the availability of the serial port. 1. 2. Access the Setup utility on your host PC to verify that the port is enabled. Check the Windows device manager on your host PC to identify potential conflicts for the serial port. !!! Go to Start, Settings, Control Panel. Double click the System icon and select the Device Manager tab. Check the Ports listing to determine if any conflicts exist (another device is assigned to or using the serial port).

The port may be flagged with an exclamation point, for example, if any conflicts exist. If another device is assigned to or is using the serial port, you must reassign the device to free up the serial port for MobilePro synchronization. Make certain the port is communicating at 115k. !! Proceed to the next section to connect the PC connect cable. Connecting the PC Connect Cable Before installing Microsoft ActiveSync, follow these instructions to connect the PC Connect (serial) cable that ships with your MobilePro to both your MobilePro and to your host PC. 1. 2. Locate and open the serial port cover on the left side of your MobilePro. Align and attach the PC Connect cable to the serial port on the MobilePro. (If your cable is labeled, insert the cable with the word Up visible on the top.

If your cable has an arrow near the connector, insert the cable with the arrow visible on top.) 1-12 Getting Started Connecting the PC connect cable 3. Connect the other end of the cable to the 9-pin serial port on your host PC. If your host PC has a 25-pin serial port, use an adapter (available in most computer stores). Proceed to the next section to install Microsoft ActiveSync.

Note Before connecting the PC Connect cable to the serial port on your host PC, be sure that the serial port is enabled in the host PC's BIOS setup and that no conflicts exist for the port. For details, see a previous section in this chapter, "Ensuring the Availability of the Serial Port." Be sure to properly align the cable connectors and ports. Incorrect connection can damage the MobilePro and the computer. Getting Started 1-13 Installing Microsoft ActiveSync You must install Microsoft ActiveSync on your host PC to enable synchronization with your MobilePro.

The Microsoft ActiveSync CD that ships with your MobilePro contains the ActiveSync software designed for synchronization with Microsoft Office components. The following procedure assumes Microsoft Outlook as the host PC synchronization component. Network Requirements If your host PC is connected to a network, configure one of the following before installing Microsoft ActiveSync: !! Configure a WINS server on the host PC's network, or, Configure the host PC's IP address on the MobilePro as follows: 1. 2. 3. 4. Tap Start, Settings, Control Panel, and double tap the network icon. Highlight NE2000 Compatible Ethernet Driver and select the Properties button. In the IP address tab, select (place a dot beside) "Obtain an IP address via DHCP." Select the Name Servers tab and enter the host PC's IP address in the "Primary WINS" field.

To identify the host PC's IP address, run an IP config utility. In Windows 95, 98, and 2000, run Win IP Config. In Windows NT, run IP Config. If you need assistance, see your network administrator. Installing ActiveSync Follow these steps to install Microsoft ActiveSync for synchronization with Microsoft Outlook. The installation sequence may vary depending upon the Microsoft components installed on your host PC. Note If your host PC uses the Windows NT operating system, you must install Windows NT Networking before installing Microsoft ActiveSync to your host PC. 1-14 Getting Started 1. Insert the Microsoft ActiveSync CD in the CD-ROM drive of your host PC. ! If auto-insert is enabled on your host PC, the setup window appears. If auto insert is not enabled, go to Start, Run, browse for the CD-ROM drive, and run the setup.exe file. ! 2. Click Next to start the setup wizard. The Selection Installation folder appears.

3. Click Next to accept the default installation folder or modify the folder destination and click Next. The Get Connected window appears. 4. Read the instructions about connecting your device and click Next.

The host PC verifies the availability of a COM port and polls the MobilePro for synchronization settings. The New Partnership window appears. Proceed to the next section to complete the installation. Creating a Partnership Once the host PC verifies the availability of a COM port and polls the MobilePro for synchronization settings, the New Partnership window appears. 1. 2. 3. Click Next to display the Select Synchronization Settings window. Select the desired synchronization settings and click Next. The Setup Complete window appears.

Click Finish to complete the installation process Verifying Synchronization Settings Look for the new Microsoft ActiveSync desktop icon on your host PC. Follow these steps to verify the synchronization settings on the MobilePro. 1. Double click the ActiveSync icon. Getting Started 1-15 2. Click Tools, Options and verify that the desired synchronization services are checked. Modify the selections as required. Note By default, synchronization of email messages is not checked. Be sure to select the checkbox for this service if you want to synchronize email between your MobilePro to your host PC. Once installed, Microsoft ActiveSync automatically synchronizes your MobilePro 790 with your host PC's Microsoft Outlook email, contacts, calendar, and task list each time you attach the PC Connect cable to the MobilePro 790 and the host PC.

Note Whenever possible Microsoft ActiveSync automatically translates files and email attachments during synchronization. This allows you to use the MobilePro to view and work with files created on your host PC with Microsoft Word, Excel, and PowerPoint, among others. However, as noted in the readme.doc file on the Microsoft ActiveSync CD, PowerPoint files created or modified on the MobilePro are not translated for viewing or modification on your host PC. This limitation does not apply to Pocket Word or Pocket Excel files.

Connecting to Your PC via Infrared If your host PC is not equipped with a serial port or the serial port(s) is in use, use the infrared port to synchronize the NEC MobilePro with your host PC.



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The following section provides an overview of the synchronization process, using the infrared port, followed by detailed instructions for each stage of the process. Follow these procedures to configure your MobilePro for synchronization using the infrared port. ! ! ! ! Modify the PC Connection default settings on your MobilePro. Set the infrared connection speed.

Enable the infrared port on your host PC. Install Microsoft ActiveSync on your host PC. Create a partnership between your host PC and your MobilePro. 1-16 Getting Started ! Verify that the desired synchronization services are configured. Modifying PC Connection Settings Your MobilePro ships with PC Connection default settings. Follow these steps to modify the PC connection settings. 1. 2. 3. Tap Start, Settings, Control Panel, Communications.

Select the PC Connection tab. Select the Change tab, use the dropdown box to change the setting to Infrared port, and click OK. Proceed to the next section to set the infrared connection speed, if necessary. Setting the Infrared Connection Speed Your NEC MobilePro supports both SIR (115 Kbps) and FIR (4 Mbps)

IR communications. Follow these steps to set the infrared connection speed. 1. 2. Tap Start, Settings, Control Panel, and double tap MobilePro Settings. Select the IrDA tab and select the appropriate infrared connection speed. The infrared connection speed on your NEC MobilePro must be compatible with the infrared connection speed on your host PC.

Tap OK and close the Control Panel. 3. Proceed to the next section to enable the infrared port on your host PC. Enabling the Infrared Port The infrared port on your host PC must be available for synchronization with your NEC MobilePro. Follow these steps to enable the infrared port.

1. 2. Access the setup utility on your host PC to verify that the port is enabled. If required, select FIR support in Setup. Set up infrared software components on your host PC.

In the Windows environment: ! Go to Start, Settings, Control Panel. Getting Started 1-17 ! If infrared is disabled, select the options tab and place a check in the box "Enable infrared communications." Place a check in the boxes, "Search and provide status for devices in range," and "Install software for Plug and Play devices within range." Uncheck the box, "Limit connection speed to." ! ! 3. 4. Click Apply and click OK. Check the device manager on your host PC to identify potential conflicts for the infrared port. ! ! Double click the System icon and select the Device Manager tab. Check the Ports listing to determine if any conflicts exist (another device is assigned to or is using the infrared port).

The port may be flagged with an exclamation point, for example, if any conflicts exist. If another device is assigned to or is using the infrared port, you must reassign the device to free up the infrared port for MobilePro synchronization. ! 5. Reboot your host PC. Once the system restarts, an infrared icon (gray vertical bar with a red bump) appears in the system taskbar. If there is an X to the right of the icon, infrared is not enabled. Repeat steps 1-4 to enable infrared. Installing Microsoft ActiveSync You must install Microsoft ActiveSync on your host PC to enable synchronization with your MobilePro. The Microsoft ActiveSync CD that ships with your MobilePro contains the ActiveSync software designed for synchronization with Microsoft Office components. The following procedure assumes Microsoft Outlook as the host PC synchronization component.

Network Requirements If your host PC is connected to a network, configure one of the following before installing Microsoft ActiveSync: ! Configure a WINS server on the host PC's network, or, 1-18 Getting Started ! Configure the host PC's IP address on the MobilePro as follows: 1. 2. 3. 4. Tap Start, Settings, Control Panel, and double tap the network icon.

Highlight NE2000 Compatible Ethernet Driver and select the Properties button. In the IP address tab, select (place a dot beside) "Obtain an IP address via DHCP." Select the Name Servers tab and enter the host PC's IP address in the "Primary WINS" field. To identify the host PC's IP address, run an IP config utility. In Windows 95, 98, and 2000, run Win IP Config.

In Windows NT, run IP Config. If you need assistance, see your network administrator. Installing ActiveSync Follow these steps to install Microsoft ActiveSync for synchronization with Microsoft Outlook. The installation sequence may vary depending upon the Microsoft components installed on your host PC. Note If your host PC uses the Windows NT operating system, you must install Windows NT Networking before installing Microsoft ActiveSync to your host PC. 1. Insert the Microsoft ActiveSync CD in the CD-ROM reader of your host PC. ! If auto insert is enabled on your host PC, the setup window appears. If auto insert is not enabled, go to Start, Run, browse for the CD-ROM drive, and run the setup.exe file.

! 2. Click Next to start the Setup wizard. The Selection Installation folder appears. 3. Click Next to accept the default installation folder or modify the folder destination and click Next. Getting Started 1-19 The Get Connected window appears. 4. Place the NEC MobilePro so that the infrared port is within range of the host PC infrared port and read the instructions about connecting your device. Click Next. On the NEC MobilePro, tap Start, Programs, Communication, and PC Link.

The host PC verifies the availability of an infrared port and polls the MobilePro for synchronization settings. The New Partnership window appears. 5. Proceed to the next section to complete the installation. Creating a Partnership Once the host PC verifies the availability of an infrared port and polls the MobilePro for synchronization settings, the New Partnership window appears.

1. 2. Click Next to display the Select Synchronization Settings window. Select the desired synchronization settings and click Next. The Setup Complete window appears.

3. Click Finish to complete the installation process. Verifying Synchronization Settings Look for the new Microsoft ActiveSync desktop icon on your host PC. Follow these steps to verify synchronization settings on the MobilePro. 1. 2. Double click the ActiveSync icon. Click Tools, Options and verify that the desired synchronization services are checked. Modify the selections as required. Once installed, Microsoft ActiveSync automatically synchronizes your MobilePro 790 with your host PC's Microsoft Outlook email, contacts, calendar, and task list each time you attach the PC Connect cable to the MobilePro 790 and the host PC.

1-20 Getting Started Note Whenever possible Microsoft ActiveSync automatically translates files and email attachments during synchronization. This allows you to use the MobilePro to view and work with files created on your host PC with Microsoft Word, Excel, and PowerPoint, among others.



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However, as noted in the readme.doc file on the Microsoft ActiveSync CD, PowerPoint files created or modified on the MobilePro are not translated for viewing or modification on your host PC. This limitation does not apply to Pocket Word or Pocket Excel files. Synchronizing with Your Host PC Once your MobilePro is configured for synchronization with your host PC, synchronization occurs when the ActiveSync components on the NEC MobilePro and on the host PC are activated. When synchronizing via the serial port, the process occurs automatically. When synchronizing via the infrared port, manual intervention is required. Refer to the next two sections for details about synchronizing with your host PC. Synchronizing via the Serial Port Once the MobilePro is configured for synchronization the synchronization process automatically occurs each time you connect the MobilePro to your host PC, via the serial port.

In addition, you can manually initiate the synchronization process using Microsoft ActiveSync on your host PC. Simply open the ActiveSync window, click File, and click Synchronize. Synchronizing via the Infrared Port Once the MobilePro is configured for synchronization via infrared, the ActiveSync component on the MobilePro must be manually activated to initiate the synchronization process. Simply tap Start, Programs, Communication, ActiveSync to initiate synchronization via infrared. Resynchronizing Your MobilePro Once synchronized, you may need to re-establish communication between the MobilePro and your host PC if you soft reset the MobilePro or you warm boot your host PC.

To re-establish communication between the MobilePro and your host PC, do one of the following: ! Disconnect, then reconnect the PC Connect (serial) cable. Getting Started 1-21 ! Power off, then power on the MobilePro unit. Using other Communication Devices During synchronization, the PC Connect (serial) cable must be connected to your host PC. However, you must disconnect the serial cable before using the internal modem, IR port or a network card in your MobilePro. Connecting Remotely In addition to using your MobilePro as a companion PC, when you travel you can connect by modem directly to an internet service provider or a network remote access server, to get email and to view web pages.

Refer to Chapter 5, "Setting Up a Remote Connection" for details. 1-22 Getting Started Getting Help The following table provides a comprehensive list of where you can get help on your MobilePro 790, the software, connections, accessories, and support. Help Resources Item MobilePro Operation Windows CE Resource MobilePro User's Guide Windows CE Main Help Help file included with Windows CE. Tap Start then Help on the MobilePro desktop taskbar. Microsoft Handheld PC 2000 website <http://www.microsoft.com/mobile/handheldpc/features/default.asp> Chris De Herrera's Windows CE Website Home <http://www.cewindows.net> ActiveSync ActiveSync Help After installing ActiveSync on your host PC, click on Start/Programs/ActiveSync to open the ActiveSync window.

Select Help from the menu bar and click on Microsoft ActiveSync Help. Microsoft Windows CE for the Handheld PC Highlights <http://support.microsoft.com/support/default.asp?PR=wce&FR=0&SD=SO> Chris De Herrera's Windows CE Website ISP Settings <http://www.cewindows.net/wce/isp.htm> Pocket Word, Excel, Access, PowerPoint, Internet Explorer, Inbox, Calendar, Contacts, Tasks Connecting to Internet Service Providers Getting Started 1-23 Help Resources Item Software and Hardware Resources Resource Pocket PC Magazine Buyer's Guide <http://www.ppcmag.com> Microsoft Handheld PC 2000 Resource Guide <http://windowsece.resourceguide.net> Microsoft Windows CE Add-ons http://windowsece.microsoft.com/reftool/search/s_hwsr.asp MobilePro Accessories 1 NEC Computers Inc. Accessories http://www.neccomp.com/2/accessories_category.asp NEC Computers Inc. MobilePro 1 Support <http://support.neccomp.com> NEC Computers Inc. Support 1 Telephone Numbers 800-632-4525, fax: 801-579-1552 NEC UltraCare Warranty Terms and 3 Conditions Refer to this booklet to find out how to contact the local office in your country. MobilePro Technical Support, Warranty Service MobilePro Homepage NEC Computers Inc. MobilePro 1 Home http://www.neccomp.com/store/2/product_line.asp?prod_line_no=4 NEC Computers International. 3 MobilePro Home <http://www.necsd-europe.com>

(select your country from this page) 1 2 3 For U.S. and Canada only. World Wide Web address subject to change. For Europe Only. 1-24 Getting Started 2 Introducing the NEC MobilePro ! ! ! ! Identifying System Features Opening the Display Panel Using the Stylus Using the MobilePro's Power Sources Caring for the MobilePro Identifying System Features The NEC MobilePro 790 is compact with features on every side. The next few sections provide figures and feature descriptions. Around the Front of the System The following sections describe front features beginning with the display panel. Display Panel Your NEC MobilePro 790 comes with an 8.1-inch display panel that you can adjust for a comfortable viewing position.

See the section, "Making Display Panel Adjustments," in Chapter 4, for information about adjusting the panel brightness. Display panel A Display panel B Display panel latch ! C Stylus D Scroll dial Display Panel (with built-in touch screen) -- Provides a touch screen that lets you activate functions by touching the screen with the stylus or your fingertip. Display Panel Latch -- Secures the display panel when it is closed. ! 2-2 Introducing the NEC MobilePro ! Stylus -- A "pen" that serves as an input device for the touch screen. To use, remove the stylus from its holder.

Scroll Dial -- Allows you to scroll up/down or PgUp/PgDn, depending upon your MobilePro settings. ! Keyboard Panel and Base Unit The NEC MobilePro keyboard panel and base unit provide the features shown in the following figure. Features are described after the figure. Keyboard panel and base unit A Scroll dial B Power button C Keyboard D Status LEDs ! E Microphone F Earphone Microphone Jack G CompactFlash Card Slot H Suspend Switch Scroll Dial -- Allows you to scroll up/down or PgUp/PgDn, depending upon your MobilePro settings. Power Button -- Allows you to power on and off the unit when it is open.

Keyboard -- Lets you enter data. ! ! Introducing the NEC MobilePro 2-3 ! Status LEDs -- Keeps you informed of the system's power status and notifies you about scheduled appointments. Status LEDs A Battery Charging LED B Notification LED -- Battery Charging LED Lights amber when the battery is charging. Lights green when the battery is fully charged. -- Notification LED -- Flashes amber as a reminder of appointments, pages, etc. ! ! Microphone -- Lets you record your voice.



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Earphone Microphone Jack -- Lets you connect the earphone microphone accessory to your NEC MobilePro. CompactFlash Card Slot -- Lets you install one CompactFlash card. Suspend Switch -- Shuts off the backlight when the LCD panel is closed. Puts the MobilePro into a suspend state when the lid is closed (if enabled in MobilePro Settings).

!!! Around the Back of the System The back of the NEC MobilePro offers the features shown in the following figure. Features are described after the figure. 2-4 Introducing the NEC MobilePro Features on the back of the system A IR port ! B Main battery pack Infrared (IrDA) Port -- Allows the MobilePro to communicate without cables with similarly equipped devices, including other MobilePros. Main Battery Pack -- Provides battery power to the MobilePro when away from an AC power source. ! Around the Left Side of the System The left side of your NEC MobilePro offers the features shown in the following figure. Features are described after the figure. Left side features A AC power port B VGA port C Serial port D Not used Introducing the NEC MobilePro 2-5 ! AC Power Port -- Lets you connect the AC adapter to run your unit on AC power. VGA Port -- Provides a connection point for the VGA cable. Serial Port -- Provides a connection point for the PC connect cable. Port not used in some models.

!!! 2-6 Introducing the NEC MobilePro Around the Right Side of the System The right side of your NEC MobilePro offers the features shown in the following figure. Features are described after the figure. Right side features A PC card eject button B PC card slot !!! C Modem port PC Card Eject Button -- Allows you to remove an installed PC card. PC Card Slot -- Lets you install one Type I or Type II PC card. Modem Port -- Provides connection access to the internal modem using the RJ-11 telephone cable.

Around the Bottom of the System The bottom of the NEC MobilePro offers the features shown in the following figure. Features are described after the figure.

Introducing the NEC MobilePro 2-7 Features on the bottom of the system A Soft reset button B ROM bay cover C Speaker ! D Battery release lock E Lithium-Ion battery pack F Battery release latch Soft Reset Button -- Lets you do a "soft reset" to the NEC MobilePro in case of malfunction. Your data is preserved if it has been saved in a file. Use your stylus to press the soft reset button.

ROM Bay Cover -- Protects the ROM bay and the installed ROM module. Speaker -- Lets you listen to digital audio. You can program MobilePro audio to remind you of appointments, notify you of operation events, or play application-associated sounds. Battery Release Lock -- Locks the battery in its bay. !!! Note You cannot use your MobilePro when the battery lock is in the unlocked position. The system displays an error message. ! Lithium-Ion Battery Pack -- Provides the system's main battery power. Battery Release Latch -- Allows you to release and remove the battery (when the lock is in the unlocked position). !

2-8 Introducing the NEC MobilePro Opening the Display Panel Follow these steps to open the display panel. 1.

2. Slide the display panel latch to the right. Lift the display panel up and towards the back of the system. When the NEC MobilePro is not in use or when you are carrying it, keep the display panel closed. This helps prevent accidental damage to the touch screen or keyboard. Dropping the MobilePro may cause display panel damage. Using the Stylus To use the stylus, follow these steps: 1. 2. Open the MobilePro display panel. Locate the stylus holder on the lower right of the base unit.

To remove the stylus, slide it away from the unit. Although you can use your fingertip to activate the touch screen, never use hard-pointed or sharp objects.

These objects can damage the touch screen. 3. Gently touch the pointed tip of the stylus to the screen to select an object.

When you are done using the stylus, return it to its convenient holder in the MobilePro. Using MobilePro's Power Sources The NEC MobilePro 790 can be powered using the AC adapter or the system's main battery, making it a truly portable system. The MobilePro also contains an internal data backup battery that recharges whenever the unit is connected to an AC power source. Read the following sections for information about using the NEC MobilePro's power sources. Introducing the NEC MobilePro 2-9 Determining Battery Status You can determine battery status by using the power icon on the lower right-hand side of the taskbar or through the power icon in the control panel.

The icon on the taskbar displays as an electrical plug when the battery is fully charged (battery charging LED lights green) or as a battery while charging (battery charging LED lights amber). To display battery status, use one of the following methods: !!! Double tap the battery/plug icon on the taskbar, if present. Go to Start, Settings, Control Panel, and double tap the Power icon. Recharging the Main Battery Pack The main battery pack contains rechargeable Lithium-Ion cells. Recharge a battery pack when you see the following message displayed on your screen: Main Batteries Very Low To recharge a battery pack installed in the battery bay, connect the AC adapter. See "Connecting the AC Adapter" in Chapter 1. The battery charging LED indicates the charging status of the main battery pack when the NEC MobilePro is connected to an AC power source. The LED status displays as follows: !!! Lights amber while charging. Lights green when fully charged. It takes approximately 4.

5 hours to recharge a fully depleted battery pack regardless of the system's power state. However, if the main battery has been depleted for a prolonged period, you must allow 6-10 hours for the main and backup battery to fully recharge (see the section, "Recharging the Backup Battery"). Note Through normal use, the capacity of a battery pack gradually declines. Should you notice that the battery does not stay charged as long as expected, it is probably necessary to replace the battery with a new one. Please refer to the section "Battery Replacement" later in this chapter. Depending upon use, a battery pack should recharge from full depletion approximately 300 times during the life of the battery. 2-10 Introducing the NEC MobilePro Recharging the Backup Battery The backup battery charges while the main battery is charging. It usually takes approximately 4.5 hours to recharge both the main and backup batteries together. A full 10 hours charging time is required under either of these circumstances: !!! This is the first time you have used your MobilePro The main battery has been in a depleted state for a prolonged period.

In these cases allow 10 hours for both the main and backup batteries to charge, even if the LED indicator on the front of the MobilePro lights green before the full 10 hours have passed.



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To protect your data, do not use the system until the backup battery is charged. To recharge the main and backup batteries, connect the AC adapter. See the section, "Connecting the AC Adapter" in Chapter 1. MobilePro Power Management When your MobilePro is connected to an AC power source and the main battery is removed from the system, be sure to replace the main battery before disconnecting the AC adapter to prevent possible data loss.

The MobilePro's internal data backup battery provides power to maintain the memory contents for a limited period of time when the main battery is removed and the unit is not connected to an AC power source. The backup battery does not provide sufficient power to operate the system. Do not remove the main battery from the unit for an extended period of time unless the unit is connected to an AC power source. The backup battery is not user-replaceable.

Introducing the NEC MobilePro 2-11 Battery Replacement Note the following when replacing batteries: ! If the main battery becomes weak, the MobilePro automatically turns off.

Recharge or replace the main battery immediately if the power goes off. The MobilePro has a built-in backup battery that maintains your data for several hours whenever the main battery is depleted or removed. The backup battery is recharged whenever the unit is connected to an AC power source. If you fail to replace a depleted main battery for an extended period of time and the back-up battery is weak, the contents of the MobilePro memory and all user data may be lost. !! Removing and Inserting the Battery Pack Should you notice the life of a charged battery pack is short, replace it with a new one. Follow these instructions to replace a battery pack. 1. Save your data, turn off unit power, and close the display panel. Disconnect any cables attached to the unit, such as the serial cable. Note If you receive messages indicating that both the main battery and the backup battery are very low, immediately connect the AC adapter to charge both batteries.

You cannot use your MobilePro when the battery lock is in the unlocked position. The system displays an error message. 2. 3. Have a Lithium-Ion battery pack available. Remove the battery pack as follows: ! Locate the battery lock and release latch on the bottom of the system. Slide the lock to the unlocked position in the direction of the arrow as indicated in the following figure. Slide the release latch in the direction of its arrow, as indicated in the following figure, and hold it. Remove the battery from its bay. !!! 2-12 Introducing the NEC MobilePro Removing the battery pack A Battery release latch B Battery release lock 4.

C Lithium-Ion battery pack Insert a new battery pack as follows: ! Insert the new Lithium-Ion battery pack in the bay and slide the battery in the direction of the arrow, as indicated in the following figure. Inserting the battery pack A Battery release lock C Lithium-Ion battery pack Introducing the NEC MobilePro 2-13 ! Firmly press the battery until it is securely in the bay and clicks (locks) into place. Slide the lock back to the locked position. ! Note You cannot use your MobilePro when the battery lock is in the unlocked position. The system displays an error message.

5. Charge the battery. See the sections earlier in this chapter, "Recharging the Main Battery" and "Recharging the Backup Battery." Battery Precautions Read the following battery handling precautions to ensure your safety. Adhere to these warnings when handling batteries.

Failure to do so may result in personal injury. ! ! ! ! ! ! ! ! There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions. Never dispose of batteries by burning them. Dispose of used batteries promptly. Keep batteries away from children. Do not subject batteries to impact. @ @ @ @ Do not disassemble batteries. Do not solder or puncture batteries.

@ @ @ @ @ ! ! The power cord is damaged or frayed. Liquid spills on or into the unit. @ @ @ @ Avoid dropping or bumping the MobilePro or the AC adapter. Do not stack heavy objects on the MobilePro or the AC adapter. @ @ Never use the AC adapter if the voltage falls outside of this range. @ @ @ @ @ Do not use the unit in humid or dusty environments. Turn off the MobilePro power before cleaning the system. @ @ @ @ @ Do not use a cleaning solution; this may damage the plastic. ! ! ! ! ! ! ! ! @ @ @ @ @ @ ! Keep the storage area free from vibration and magnetic fields. @ @ @ @ @ Unit case -- Carefully wipe the case with a slightly damp, almost dry cloth.

! 2-16 Introducing the NEC MobilePro Never use harsh solutions, household cleaners, or spray cleaners that contain caustic materials on the MobilePro. These cleaners are usually high in alkalinity, which is measured in pH. Using these cleaners can cause the plastic surface to crack or discolor. Introducing the NEC MobilePro 2-17 3 Introducing Windows CE ! ! ! Windows CE Operating System Microsoft ActiveSync Online Help Windows CE Operating System Windows CE is the smallest member of the Windows operating system family using the Windows 95 interface. What exactly does smallest mean? It means mobility and portability provided through a reduced code base.

This code base is completely 32-bit; it is multithreaded, multitasking and runs on different processors such as the NEC VR4121 MIPS processor. Your MobilePro does not have a hard disk drive. The operating system and preloaded applications are deployed on a Read-Only Memory (ROM) module; files that you work on are stored in Random Access Memory (RAM) on a RAM module. Linking with your host PC to synchronize your data enhances the power of Windows CE..

For more information about setting up your MobilePro for synchronization, see the section in Chapter 1, "Connecting to Your PC." Using Windows CE Windows CE is similar to Windows 95. However, some actions are executed differently, as indicated in the following sections. Tapping Your NEC MobilePro comes with a stylus, a pen-like device that allows you to touch, tap, or double tap objects on the MobilePro touch screen. The touch, tap, and double tap act just like a point, click, and double click of a mouse. To simulate the click of the right mouse button, hold down the Alt key while you tap or drag the object with the stylus. Finally, never use a metal object in place of the stylus. Metal objects may scratch the surface of the touch screen. Selecting Objects You can select objects in Windows CE by tapping the object(s) with the stylus. To select multiple contiguous items, hold down the Shift key while tapping the first and last items.

To select multiple non-contiguous items, hold down the Ctrl key while tapping each item. 3-2 Introducing Windows CE To move the blinking cursor while editing text in a program, simply tap the screen at the desired (new) location.



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Dragging and Dropping Dragging and dropping works just like in Windows 95. To drag an object, tap the object with the stylus and hold the stylus against the screen. Continue to hold as you slide the object across the screen. Lift the stylus from the screen when the object is in the desired location. To copy an object, simply hold down the Ctrl key as you drag the object, as indicated in the previous section. Windows CE Desktop Windows CE gives you the newest features offered by Microsoft for your NEC MobilePro and is very similar to Windows 95. Windows CE includes a desktop with built-in pocket applications, a taskbar for quick navigation, online networking functions, and more. Your desktop provides the following icons.

! My Handheld PC -- Opens Windows CE Explorer to display all the data on your MobilePro, whether stored in RAM or on a storage card in the PC card or Compact Flash card slots. My Handheld PC is much like the My Computer icon on the Windows 95 desktop. My Documents -- Provides shortcuts to documents most recently worked on, as well as access to Pocket PowerPoint and Pocket Access. Recycle Bin -- Gives you a trash container in which to put unwanted files. Internet Explorer -- Provides web access once you are connected to the Internet via the MobilePro's built-in modem and an internet service provider.

Inbox -- Allows you to send and receive email messages on your NEC MobilePro. Refer to Chapter 5, "Setting Up a Remote Connection," for details about configuring your MobilePro to send and receive email. Calendar -- Lets you schedule appointments, meetings, and other events and provides a variety of ways to display the stored information. Introducing Windows CE 3-3 ! ! ! ! ! Contacts -- Maintains a list of names, both business and personal, for easy access while at home or on the road. Tasks -- Provides a portable "to do" list for keeping track of all of your tasks.

Microsoft Pocket Word -- Allows you to create and edit documents on your MobilePro. Microsoft Pocket Excel -- Allows you to view or draft spreadsheets. Microsoft Pocket PowerPoint -- Lets you quickly and easily deliver a professional online presentation. Microsoft Pocket Access -- Allows you to access and synchronize information from other databases. Microsoft Voice Recorder -- Allows you to record voice memos. ! ! ! ! ! In addition, your NEC MobilePro includes other programs and utilities accessible through the Start, Programs menu. Pocket Applications While Windows CE applications do not have all the features you may expect to see in applications on other Windows systems, these applications provide many powerful features adapted for the mobile environment. Your MobilePro, with its larger keyboard, highly visible display, and longer battery life, allows you to obtain full advantage of the CE-based applications. Write complete, well-formatted reports, take detailed notes, and work on spreadsheet data as you travel. Microsoft provides a complete suite of applications ready for you to use.

These applications are available as a desktop icon or accessible through Start, Programs in the Accessories, Communication, or Games folders. These include but are not limited to the following applications. ! Windows Media Player -- Lets you play .wma (Windows Media Audio format) and .mp3 files. Microsoft InkWriter® -- Lets you create handwritten or typed notes and drawings. ! 3-4 Introducing Windows CE ! Microsoft Voice Recorder -- Provides an easy way to quickly capture thoughts, reminders, ideas, and phone numbers. ActiveSync -- Lets you initiate synchronization with your host PC. PC Link -- Allows you to initiate a connection with your host PC. Remote Networking -- Allows you to configure remote access accounts for connecting to your ISP, your local area network, and more.

Terminal -- Lets you view and download files from a bulletin board or to send and receive email. Calculator -- Allows you to perform calculations. Solitaire -- Provides entertainment while on the road. ! ! ! ! ! For more information about each of the applications, just click the question mark or select the help button when using each application. Printing Features Windows CE provides printing capability using Hewlett-Packard (HP) PCL Level 3 and compatible printing devices that support serial or infrared connection.

Using a serial cable or infrared transfer you can print a variety of high-quality documents directly from the MobilePro including: ! ! ! Pocket Word and Pocket Excel files Contacts and Task lists A view of your schedule or agenda in Calendar Inbox messages Follow these steps to print documents using your MobilePro. 1. 2. Open the desired Pocket application. Tap File and tap Print.

The print dialog box appears. 3. Select the appropriate printer setting, "PCL Laser" or "PCL Inkjet." Introducing Windows CE 3-5 4. 5. 6. Select the appropriate port setting, COM1 @ 57600, COM1 @ 9600, IrDA, LPT1, or Network. Select other printing attributes as required. Tap OK. Note With the optional printer cable (MC-RC3E) connected to the serial port of your NEC MobilePro, you can print to a supported, high-speed parallel printer.

For information about MobilePro accessories, access the web site 1 <http://www.neccomp.com>. 1 For U.S. and Canada only. If you purchased this computer outside the U.S. and Canada, contact a local NEC dealer in your country. For additional details about using the IR port for printing and transferring data, refer to the section in Chapter 4, "Using the IR Port."

" Network Capabilities Your MobilePro takes full advantage of the networking capability offered through Windows CE and the PC card port. The operating system supports Ethernet LAN and serial line interface protocol (SLIP) used with Cellular Digital Packet data (CDPD) so you can have cable- or wirelessbased network communications using an Ethernet LAN PC card. In addition, you can use CompactFlash type II Ethernet cards on your NEC MobilePro. Creating a Network (Ethernet) Connection To create a network (Ethernet) connection, you must install and configure an Ethernet card. The drivers for the card may already exist on your device.

NEC also has included drivers for the Proxim RangeLAN2. 1. Insert the Ethernet card into your device and connect it to your network cable. You must have an NE2000-compatible Ethernet card, one of the wireless Ethernet cards described above, or have installed drivers supplied with the card. You may see a message warning about battery power.

If you have an A/C adapter, plug it into your device. 3-6 Introducing Windows CE 2. In the Settings dialog box, enter the information for your server. Most networks use DHCP, so you should not have to change these settings. See your network administrator if you need assistance. If the Settings dialog box does not appear, go to Start, Settings, Control Panel, and double tap Network.



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Select your Ethernet driver, select Properties, and configure the appropriate settings. 3. 4. Tap OK twice, select the Identification tab, and enter your name, password, and domain.

Click OK, then close the Control Panel. Remove and reinsert the Ethernet card when prompted. Once you have configured your Ethernet connection, use Internet Explorer on your MobilePro to "surf the net" or to send and receive email. Microsoft ActiveSync Microsoft ActiveSync enables you to synchronize the information on your desktop computer with the information on your device. Synchronization is the process of comparing the data on your device with your desktop computer and updating both computers with the most recent information. For example: ! Keep Pocket Outlook data up-to-date by synchronizing your mobile device with your choice of Microsoft Outlook, Microsoft Schedule+, or Microsoft Exchange on your desktop computer. Synchronize Word and Excel documents, Access and other ODBC databases and tables, and InkWriter documents between your device and desktop computer. Your files are automatically converted to the correct format. ! With ActiveSync, you can also: !!! Back up and restore your device data. Add and remove programs on your device.

Copy (rather than synchronize) files between your device and your desktop computer. Introducing Windows CE 3-7 Backing Up and Restoring Data To prevent data loss, frequently back up your NEC MobilePro data. You can backup all data to your host PC using Microsoft ActiveSync on your host PC. Using Microsoft ActiveSync The Microsoft ActiveSync backup and restore feature creates a complete duplicate of all data stored on your NEC MobilePro. If you routinely connect to your host PC, this is the best method of data backup.

The backup file is saved on the hard disk of your host PC. When you restore data from a backup file created by Microsoft ActiveSync, all data on your NEC MobilePro is replaced by the data in the backup file. All data on your MobilePro is overwritten including files you created, settings that you changed or programs that you installed since the last backup. To access the Microsoft ActiveSync backup feature, double click the ActiveSync icon on your host PC. Click Tools, then click Backup/Restore.

Follow the on-screen instructions to complete the backup process. Online Help Your NEC MobilePro provides online help resources for Windows CE and the Pocket applications. In addition, Microsoft ActiveSync on your host PC provides its own online help file. Follow these instructions to find your online help resources. ! Windows CE Main Help -- Tap Start, then Help on the Windows CE taskbar. Application-specific Help -- Just tap the question mark in the upper right-hand corner of the taskbar in each of the Pocket applications. Microsoft ActiveSync Help -- On your host PC, double click the ActiveSync desktop icon, click Help, and select the Microsoft ActiveSync Help Topics. !! 3-8 Introducing Windows CE 4 Using the NEC MobilePro !!!!!!!! Powering On and Off Making Display Panel Adjustments Using the Keyboard Adjusting MobilePro Settings Using the Scroll Dial Using the Voice Recorder Using PC Cards Using CompactFlash Cards Using the IR Port Resetting the MobilePro Using the FlashROM Configuration Utility Powering On and Off Power on the NEC MobilePro as follows. If you power off, then quickly power on the NEC MobilePro, your system may erroneously report the presence of CompactFlash cards. In addition, repeatedly powering off and quickly powering on, may cause data loss.

NEC recommends that you wait ten seconds after powering off, before powering on the NEC MobilePro. 1. Slide the display panel latch to the right. Lift the display panel up towards the rear of the unit. Do not push the display panel beyond its predesigned stop point as you open the panel. 2. Locate and press the Power button. To power off the unit, press the Power button a second time. Powering on and off A Power button Note The first time you install the main battery, the MobilePro automatically powers on when you open the display panel. The first time you power on the MobilePro, the screen contrast may need adjustment.

Refer to the following section, "Making Display Panel Adjustments," for details. 4-2 Using the NEC MobilePro If the MobilePro is not used for a specified length of time, it automatically shuts off. You can select how long the unit remains on when running on battery power alone through the Power selection in the Windows CE Control Panel. On the Windows CE desktop, tap Start, Settings, Control Panel. Double tap the Power icon and select the Power Off tab to designate a power off time.

Note As a general operation rule, frequently back up and synchronize data between your MobilePro and your host PC. Synchronization occurs each time you connect your MobilePro to your host PC, once initial synchronization is configured. For details, see the section in Chapter 1, "Connecting to Your PC." For details about backing up and restoring data, see the section in Chapter 3, "Backing Up and Restoring Data." Making Display Panel Adjustments You can adjust the brightness of the display panel in the NEC MobilePro using two function keys located at the top right of the keyboard.

Increasing panel brightness can dramatically lower battery life. Follow these steps to adjust the display panel brightness. 1. 2. Open the display panel and power on the unit. Press the brightness up or brightness down keys as required. Adjusting the brightness A Brightness up B Brightness down Using the NEC MobilePro 4-3 Backlight You can conserve battery life by configuring your NEC MobilePro to automatically turn off the display panel's backlight. Automatic Off Follow these steps to configure the backlight for automatic turn off. 1. 2.

3. Tap Start, Settings, Control Panel. Double tap the Display icon and select the Backlight tab. Tap the desired selections to place a check beside the selection. Use the drop-down boxes to select the desired time settings. Automatic On In addition, you can configure the NEC MobilePro to turn on the backlight automatically. Follow these steps to configure the backlight for automatic turn on. 1. 2. Tap the Advanced tab to access the Advanced backlight settings.

Tap the desired selections to automatically turn on the backlight either while on battery power or when connected to an AC power source. Using auto-on while on battery power substantially reduces battery life. Enabling the Suspend Switch You can configure your NEC MobilePro to power on or off by simply opening or closing the display cover. The Suspend switch acts as a switch for both the power and the display panel. With the suspend switch enabled ! opening the NEC MobilePro powers on the unit.

To power on the unit while it is open, use the Power button. closing the MobilePro powers off the unit and insures that the backlight is off as well.



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