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DIGITAL HiNote™ VP 700 Series

User's Guide Addendum

Introduction

This addendum supersedes material covered in the DIGITAL HiNote VP 700 Series User's Guide supplied with your notebook. This material covers issues related to Windows 95 Operating Systems only. This addendum is divided into the following sections:

- Future Updates

- USB Driver

- DIGITAL HiNote System CD
    - Creating a Boot Floppy
    - Installing Software
    - Re-Installing Drivers

- System Restoration
    - Using the Boot Floppy
    - System Restoration Using Existing Partitions
    - Complete System Restoration

- Troubleshooting Tip For Windows 95

- BIOS Notes

- System Resources

- RAM Increases Over 80MB Total

- Loading SNMP Services

- Booting System to MS DOS

- General

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Future Updates

The DIGITAL Portables Engineering Team is continuously testing the latest drivers available on the market. Due to the fast pace of improving technology, updated versions of the drivers may have become available on the market since the product has shipped.

DIGITAL tested and approved drivers can be downloaded from the DIGITAL Web site at: www.windows.digital.com Also, search the Web site to download documentation updates, such as System Restoration procedures.

Once at the Web site, choose Service and Support. For Firmware and Drivers choose Intel-based Systems. Scroll down to HiNote Portables, locate your specific notebook model and download the most recent drivers.

Please frequently check the Web site and take advantage of the Portables Engineering Team's continuous efforts to provide you with the most up-to-date, high performance drivers available on today's market.

Product documentation updates and releases are also available. Please frequently check the site to ensure you have the most current documents.

USB Driver

The USB driver is included in the factory installed software provided by Digital. It is not, however, installed and ready to use. To install the USB driver for the first time, please refer to the following:

1. Click on Start and then Programs.

2. Click on Install Universal Serial Bus and then on USB Setup. USB install executes. Follow the on-screen instructions to successfully complete the install.

_____ **Note**_____

Before the USB driver is installed, you may see **!**USB in Device Manager. This mark indicates that USB driver is located on your hard drive, however it has not yet been installed.

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DIGITAL HiNote VP 700 System CD

The DIGITAL HiNote VP 700 System CD provides additional information and applications to help you maintain and optimize the use of your notebook. After unpacking your HiNote VP 700 Series notebook and completing the initial setup, insert the DIGITAL HiNote System CD into the CD-ROM. Click the Start button on the Windows 95 Task bar and then on Programs. Click on Windows Explorer. Click on the CD-ROM drive and then double-click CDINSTALL.EXE. Click through the screens to familiarize yourself with the System CD contents. A brief summary is listed below:

- Applications (please see the section below for a detailed listing).

- On-line documentation, which can be installed onto your hard drive.

- All system driver installations or instructions, which can be printed out from Notepad.

- The Utility screen allows you to create a boot floppy, needed for System Restoration.

Creating a Boot Floppy

Before shutting down your system today, create a bootable floppy. It is extremely useful when conducting system restoration. To create a bootable floppy:

1. Boot to Windows, then insert the DIGITAL HiNote VP 700 System CD into the CD-ROM drive. Click the Start button on the Windows 95 Task bar and then on Programs. Click on Windows Explorer. Click on the CD-ROM drive and then double-click CDINSTALL.EXE.

2. Click through the Welcome screens until the Choose Desired Category screen appears. From this menu you will be able to install documentation, applications, drivers and utilities.

3. Click on the Utilities box and then click on Next.

4. Click on Create Boot Floppy and click on Next. Click on Next again.

5. Insert a 3½ inch 1.44 MB floppy into the floppy disk drive. Follow the on-screen instructions. The utility (Sysboot.exe) will format the floppy, make the floppy bootable and copy appropriate system files to the floppy. Before creating the boot floppy, ensure that the floppy is NOT write protected. Any previous data on the diskette will be erased.

6. After the bootable floppy has been created, ensure that it is write protected. Paste a label onto the diskette and label it HiNote VP 700 Series Bootable Floppy.

7. Please refer to Chapter 7 in your User's Guides for tips on floppy diskette care and storage.

Installing Software

To install software onto your system, please perform the following:

1. Boot to Windows. Insert the DIGITAL HiNote System CD into the CD-ROM drive.

2. Open Windows Explorer.

   - Click on Start from the Windows 95 Task bar.
   - Click on Programs.
   - Click on Windows Explorer.

3. Double-click the CD-ROM drive.

4. Double-click CDINSTALL.EXE.

5. Click through the Language Choice and Welcome screens until the Choose Desired Category menu appears. From this menu you will be able to install documentation, applications, and print out driver installation instructions.

6. Click on the Applications box and then click on Next.

7. Click on the desired application which you wish to install. Some applications require additional information to complete the installation process. Follow the on-screen instructions for each application.

Application Description

The following details the applications available on your System CD and an explanation of each.

Software Title	Software Description
Mobile Wellness	This interactive multimedia sound and graphics program provides information on Mobile computing ergonomics in a variety of settings.
WebEx	With the WebEx software program, you will be able to download Web pages to your hard drive for viewing and browsing off-line. This means you can browse your favorite Web sites even when you are not connected to the network. Specify how "deep" you want the links to go. This program is great for travelers – download your company's Web site and have access to information while on the road.
Audio Station	Through an attractively presented user-interface, Audio Station allows you to playback, record, mix and edit sound files.
Puma Intellisync97	IntelliSync97 for Windows is a powerful notebook-to-notebook or notebook to PC software solution that allows you to synchronize all your data. IntelliSync97 provides file transfer as well as file and PIM (personal information manager) synchronization between your HiNote VP 700 and another notebook via infrared port or between your notebook and a network server. Refer to the instructions below before installing Puma Intellisync97.
Digital ClientWorks	DMI-based technology provides powerful tools to locally and remotely managed clients. It is Microsoft SMS and SNMP compliant. The package integrates into workgroup and enterprise level manageable applications. SNMP Services must be loaded prior to installing ClientWorks. Refer to the section entitled Loading SNMP Services for detailed instructions.

Software Title	Software Description
Battery Scope	This useful application monitors main and secondary battery status and provides an array information, such as percent charge remaining, number of times charged as well as detailed static product information.
Power Panel	Power Panel provides a user friendly interface which allows on-the-fly customization of the notebook's power management definitions. All settings defined in Power Panel will override the Setup Utility configuration.

Before installing Puma Intellisync97 from the DIGITAL HiNote System CD, you must perform the following.

1. Enter BIOS Setup by pressing F2 when prompted to during boot. For detailed information on the BIOS Setup Program, please refer to Chapter 3 of your User's Guide.

2. Open the System Devices menu and enable the Infrared Port and set Infrared/ Mode to Fast Infrared. In its default setting, Infrared Port is disabled.

3. By default the Parallel Port/ Mode is set to ECP which employs DMA 3. DMA 3 must be freed for the FIR to function properly. Disable ECP Parallel Port/ Mode by setting its value to either Normal, Bi-directional or EPP.

4. Enter the Exit menu and choose Save Changes & Exit.

5. After the system has booted into Windows, a dialogue will appear informing you that a new standard (slow) Infrared driver has been found, and ask if you wish to install it.

6. Click on Yes; it is only temporary. We will disable it in the next step. If you click on No, you will be asked the same question each time the system boots into Windows.

7. Open Control Panel. Click on Infrared and the Options. Click on the box next to Enable Infrared Communications. This will remove the marker from within the box, indicating that the feature has been disabled. Click on OK.

8. Load the Puma Intellisync97 application. At the completion of Puma Intellisync97 install you will be asked to reboot your system.

_____ **NOTE** _____

The optional MiniDock device does not support FIR data transfer. In order to use the notebook's FIR feature, you must un-dock the system from the MinDock device. Please refer to Chapter 6 of your User's Guide for detailed instructions on how to properly un-dock the system.

Re-Installing Drivers

All drivers have been loaded onto your system at the factory. If you need to re-load any of the drivers for system any reason:

1. Boot to Windows.

2. Insert the DIGITAL HiNote VP 700 System CD into the CD-ROM drive.

3. Click on Start and then Run. In the Run Command box type X:\CDinstall (X:\ represents the drive letter of your CD-ROM).

4. At the Welcome screen, click on Next. Then at the Choose Desired category screen, click on Drivers.

5. USB, IR and PC Card drivers can be installed automatically by clicking on the corresponding box next to the driver's name.

6. Audio, Video, and Touch Pad require manual installation. Clicking on their corresponding box will open a text file containing detailed installation instructions. Print this file and refer to it during the driver installation. These drivers must be installed in the following order:

    - Audio

    - Video

    - Touch Pad

System Restoration

This section details the following:

- Using the Boot Floppy
- System Restoration Using Existing Partitions
- Complete System Restoration

In order to restore your system, you will need the following:

- DIGITAL HiNote VP 700 System CD
- Bootable Floppy (created from the DIGITAL HiNote VP 700 System CD)
- Microsoft Windows Operating System CD

Using the Boot Floppy

FDISK, format and PHDISKF utilities are located on the HiNote VP 700 Boot Floppy you created from the System CD. These utilities are required in the event that you need to completely or partially restore your system. If you have not yet created the HiNote VP 700 Series Boot Floppy, do so now. Refer to the section in this Addendum called Creating a Boot Floppy for detailed procedures.

System Restoration Using Existing Partitions

_____ **Caution** _____

Do not compress the boot drive using drive compression utilities.
Otherwise your notebook's Save to File feature will not function properly.
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If you want to remove all files from your C:\ drive and re-install Windows Operating System but NOT remove your hard drive partitions, please perform the following.

1. Insert the bootable floppy into the floppy disk drive. Power on the system. A list of choices appear.

_____**Note**_____

To exit this menu and go to DOS prompt, press 1. To re-enter this menu from DOS prompt, type MENU and press the Enter key.

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2. Choose Option 3. This Option will Format your hard disk's C: drive and then create a 86016 KB Save-to-file.bin file. This file is created by the PHDISKF Utility and enables you to use your notebook's Save to Disk feature.
If you have over 80MB of RAM installed on your notebook, you must use the PHDISKF utility to create a larger Save-to-file.bin file after this process is complete. See the section entitled RAM Increases Over 80MB Total of this addendum for detailed instructions.

3. Insert the Windows 95 CD into the CD-ROM drive.

4. Choose Option 2 (Re-install Microsoft Windows OS) from the HiNote VP 700 Boot Floppy Main Menu. This will run Windows SETUP program from the Windows 95 CD. SETUP runs SCANDISK and then installs the OS. Follow the on-screen instructions to complete Windows 95 installation.

5. Remove the Windows 95 CD and insert the DIGITAL HiNote VP 700 System CD. Run CDInstall. Click on the Next buttons until the Choose Desired Category screen appears.

6. Click on the Drivers box. Re-install all drivers. Please refer to the sections earlier in this document for information.

7. Return to the Choose Desired Category screen of the CDInstall Program and install the desired applications. Please refer to the section earlier in this document for information on installing applications.

Complete System Restoration

If you have purchased a new hard drive or you want to remove all files and
re-partition your hard drive and then install a Windows 95, please perform
the following:

1. Insert the HiNote VP 700 Boot Floppy into the Disk Drive. Power
   on the system. A list of choices appear.

_____ **Note** _____

To exit this menu and go to DOS prompt, press 1. To re-enter this menu
from DOS prompt, type MENU and press the Enter key.
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2. Choose Option 5 from the Boot Floppy Main Menu. This will
   initialize the hard disk using FDISK. Running FDISK will erase all
   data from your hard drive.

   When running FDISK, you will be prompted whether or not to
   enable large disk (FAT32) support. Choose Yes to enable large
   disk (FAT32) support. Choose No to enable FAT16. If you
   choose Yes to enable large disk support (FAT32) and want to
   install WinNT or a WIN95 non-SR2 operating system at a later
   time, you will have to repeat the Complete System Restoration
   procedure and enable FAT16. Also make sure you set the Active
   Partition flag to make it bootable.

3. Choose Option 3. This Option will Format your C: drive and then
   create a 86016 KB Save-to-file.bin file. This file was created by
   the PHDISKF Utility and enables you to use your notebook's
   Save to Disk feature.
   If you have over 80MB of RAM installed on your notebook, you
   must use the PHDISKF utility to create a larger Save-to-file.bin
   file after this process is complete. See the section entitled RAM
   Increases Over 80MB Total of this addendum for detailed
   instructions.

4. Insert the Windows 95 CD into the CD-ROM drive.

5. Choose Option 2 (Re-install Microsoft Windows OS) from the Boot Floppy Main Menu. This will run Windows SETUP program from the Windows 95 CD. SETUP runs SCANDISK and then installs the OS. Follow the on-screen instructions to complete Windows 95 installation.

6. Remove the Windows 95 CD and insert the DIGITAL HiNote VP 700 System CD. Run CDInstall. Click on the Next buttons until the Choose Desired Category screen appears.

7. Click on the Drivers box. You should now re-install all drivers. Some of the drivers can be automatically executed, while some require manual installation. Please refer to the sections earlier in this document for information.

8. Return to the Choose Desired Category screen of the CDInstall Program and install the desired applications. Please refer to the section earlier in this document for information on installing applications.

Troubleshooting Tip For Windows 95

In the event that Windows informs you of corrupt or missing operating system drivers, or you encounter unresolvable system conflicts, you may need to re-install the Windows 95 Operating System on top of the current Windows 95 Operating System on your hard drive. Perform the following to reinstall the Windows 95 OS.

_____ **Caution** _____

Do not compress the boot drive using drive compression utilities.
Otherwise your notebook's Save to File feature will not function properly.

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1. Run the Setup program in the Windows\Options\Cabs directory and follow the on-screen instruction. If Setup is unavailable for any reason, proceed with the following instructions.

2. Insert the HiNote VP 700 Boot Floppy into the Disk Drive and power on the system. A list of choices appear.

To exit this menu and go to DOS prompt, press 1. To re-enter this menu from DOS prompt, type MENU and press the Enter key.

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3. Place the Windows 95 CD into the CD-ROM drive.

4. From the bootable floppy Main Menu, choose Option 2, (Re-install Microsoft Windows OS).

5. Follow the on-screen instructions to complete the installation.

6. Once Windows has been reinstalled, you must load the drivers, enhancements and updates, and desired applications as described in the Installing Software section of this addendum.

BIOS Notes

The following section covers recent changes made to the System Setup. These changes were not reflected in your HiNote VP 700 Series User's Guide.

System Devices Menu

- The default setting for Infrared Port is disabled. Before you install Intellisync97, Infrared Port must be set to enabled and Mode to FIR.

- The default setting for Audio is Auto. Setting Audio to Enabled will allow you to view and make changes to the fields (with their default values) listed below:

    SB I/O address: [220h]
    WSS I/O address: [530h-534h]
    AdLib I/O address: [388h]
    Interrupt: [IRQ 5]
    1st DMA channel: [DMA 1]
    2nd DMA channel: [DMA 0]

- The default setting for MPU Device is disabled.

_____ **Note**_____

Do not enable the MPU Device option if you do not have a wave table installed. Enabling MPU Device without a wave table installed will result in no Audio output.

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System Resources

As shipped from the factory, your notebook Setup Utility is configured with four IRQs free:

- IRQ3—Infrared (Disabled)
- IRQ9—MPU Device (Disabled)
- IRQ10—USB (Disabled)
- IRQ11—If CardBus not inserted

_____ **Note**_____

Once USB has been installed, IRQ10 can not be released. Likewise, once MPU Device has been enabled, IRQ9 can not be released. Additionally, the CD-ROM utilizes IRQ15 and it can not be released and used by another device.

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Enabling any of the above devices will reduce the number of free IRQs available. If using modem or network cards and no IRQs are available, you must release IRQ resources. The following IRQ resources can be enabled/disabled according to your unique needs:

- IRQ3—Infrared
- IRQ4—Serial Port (COM1)
- IRQ7—Parallel Port (LPT1)

When installing CardBus and Modem cards, install the CardBus card first to avoid IRQ resource conflicts. CardBus card will utilize IRQ11 and the modem will utilize one of the remaining free IRQs.

RAM Increase Over 80MB Total

Your system RAM can be increased to 144MB. Your Save-to-File.bin file, which enables you to use your notebook's Save to Disk feature, needs to reflect the increase in memory. Shipped from the factory, your system has approximately an 84MB Save-to-File bin. The DOS file can be created before or after you install your operating system. Creating the DOS file after the installation of your operating system will NOT erase any data from the hard drive. To increase the size of your Save-to-File bin, please refer to the following:

1. Run ScanDisk to ensure there are no disk errors. Then defrag your hard drive to ensure you have enough contiguous free space to create the Save-to-File.bin file.

2. Insert the DIGITAL HiNote VP 700 Series System CD into the CD-ROM drive and boot the system.

3. At the DOS prompt, type: **PHDISKF   /create XXXXX**, where XXXXX is the size of the new Save-to-File.bin file in KB. Note that there needs to be a space between "PHDISKF" and "/create" and a space between "/create" and "XXXXX".

_____ **Note**_____

To determine the proper value of "XXXXX", use the following equation: XXXXXKB=1024 x (Total MB Installed + 4MB Overhead). For example, to support Save to Disk on a system with 80MB of RAM, the Save-to-File.bin file would have to be 86016KB in size.

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4. Press [Enter].

Loading SNMP Services

SNMP Service must be installed on your notebook prior to installing the ClientWorks application. SNMP provides the communication mechanism which allows ClientWorks to management local and remote clients. To load SNMP Services:

_____ **Note**_____

A network adapter must be installed must be installed and configured prior to loading SNMP services. Install and configure your adapter now. Refer to the documentation packaged with your adapter for installation instructions.

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1. Place the Windows 95 CD into the CD-ROM drive.

2. Open the Control Panel.

   - Click the Start button on the Windows 95 Task bar.

   - Click on Settings.

- Click on Control Panel.

3. Click on the Network icon.

4. A Network window will appear. Click on Add.

5. When the Select Network Component Type window appears, click on Service.

6. Click on Add.

7. In the Select Network Service window, click on Have Disk.

8. An Install From Disk dialog box will appear. Click on Browse.

    - Under Drives, select the CD-ROM drive.
    - Under Folders, select Admin, then Nettools, and then SNMP.
    - Click OK.

9. The Install From Disk windows will reappear. Click OK.

10. In the Select Network Service window, click OK.

11. Click OK to close the Network window.

12. Windows will prompt you to insert the Windows 95 CD, click OK.

13. In the Copying Files windows, type X:\Win95 and click OK. (X represents the drive letter assigned to your CD-ROM drive)

14. If prompted with the Version Conflict window, click Yes to replace the existing driver with the new driver.

15. Windows will inform you that you must restart the system for the changes to take effect. Click Yes to restart the system.

Booting System to MS DOS

When the system is booted from the HiNote VP 700 Boot Floppy the Touch Pad/Mouse, Audio, and CD-ROM drivers are loaded and the devices are available for use. To exit the Boot Floppy Main Menu and go to DOS prompt, press 1. To re-enter the menu from DOS prompt, type MENU and press the Enter key.

General Information

Turning Off the System During POST

Pressing the fn+Suspend/Resume key combination while the system is running POST does not turn off the system immediately. By design the system will turn off only after the POST is completed.

Quick Memory Count

Whenever the notebook is turned on or the system is warm booted, the system will perform a quick memory count to verify the amount of RAM installed. By design the quick memory count can not be bypassed. Also, keep in mind that the speed required to complete the count is directly proportional the amount of RAM installed.

Connecting an External Monitor

When connecting DDC compliant monitor to the notebook, the system only supports the DDC-1 specification.

Running DOS Based Games

While running some DOS based games, the CD-ROM may return numerous disk errors and hang the system. In most cases, entering the line KEYB US in the AUTOEXEC.BAT will resolve the problem.

Un-Install for USB

Do not use the USB Uninstall program to remove USB support. To un-install USB support, use the Add/Remove Programs wizard located in the Control Panel. Also note that removing USB support will not release IRQ10 to be used by another device.

Battery Scope

When Battery Scope is initialized, it may take up to one minute for the application to retrieve the correct static battery information such as, type of battery, manufacturer, and chemistry.

Audio Tone Controls

When you click the Sound icon on the Windows 95 Task bar, the Master Out windows will appear. Click on Advanced. The Tone Controls options are available because the system does not employ a separate sub-woofer system.