



**FCC ID: K3Y1021938**

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:  
(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received, including interference that may cause undesired operation.

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

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

# ***Welcome to DirecPC!***

*We're excited that you have chosen DirecPC as your high-performance vehicle on the information superhighway. We're confident that you will be pleased with the speed and enjoyment DirecPC delivers to you, your family, friends, and colleagues.*

## **IMPORTANT SAFETY INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS**

The following information is provided for your own safety and protection. Please read this section carefully and familiarize yourself with all warnings, cautions, and instructions. Then, keep this Guide in a safe, convenient place for your easy reference.

Warnings, cautions, and notes, defined as follows, are used throughout this Guide to help you become familiar with possible safety or equipment hazards.

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### **CAUTION**



**Where you see this alert symbol and CAUTION heading, strictly follow the caution instructions to avoid product or property damage.**

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***Note:** A note presents additional information or interesting sidelights.*

**THIS GETTING STARTED BOOKLET CONTAINS INSTRUCTIONS  
FOR INSTALLING THE DirecPC® SOFTWARE.**

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Printed in U.S.A.  
1022921-0001, Rev. H



# 1 INTRODUCTION

Thank you for purchasing the Hughes Network Systems (HNS™) DirecPC® system. This *Getting Started* guide, along with the installation guide that came with your DirecPC PCI internal satellite modem or USB external satellite modem and DirecPC antenna mount, detail the tasks you need to do to install and operate the DirecPC system. The tasks include:

- Installing the DirecPC modem (see the *Internal Satellite Modem Installation Guide* or *External Satellite Modem Installation Guide*.)
- Installing and configuring the DirecPC software (see chapter 2 in this guide)
- Installing and aiming the antenna (described in the antenna mount installation guide)
- Registering your system and configuring the DirecPC software (see chapter 3 in this guide)

In addition, appendix A describes how to access the DirecPC documentation included on the CD-ROM and appendix B is the software license and warranty information.

For best results, read the contents of this guide before you install the DirecPC system.

## 1.1 A FEW WORDS BEFORE YOU INSTALL DIRECPC

There must be an Internet browser installed on your computer *before* you install the DirecPC software. DirecPC supports the following browsers:

- Microsoft Internet Explorer version 4.x and 5.0
- Netscape Communicator 4.x

If you do not have a browser installed, you can install one of the following browsers from the DirecPC CD-ROM:

- Microsoft Internet Explorer version 5.0 (located in directory \Browsers\Microsoft Internet Explorer\)
- Netscape Navigator 4.6 (located in directory \Browsers\Netscape Navigator\)

**Note:** For instructions on installing a browser from the CD-ROM, refer to the Read Me file located in directory \Browser

The DirecPC hardware—especially the antenna—should only be installed by someone who is experienced with such similar tasks as installing an 18-inch digital satellite system antenna, or standard TV antenna. Depending on how you intend to install the DirecPC antenna you may be required to:

- Climb a ladder and work on your roof.
- Use a power drill to drill holes into your house.
- Determine whether there are water pipes, electrical wiring, or gas lines hidden in the walls near where you will be drilling.
- Route coaxial cable through the foundation wall, under floors, and through interior walls.
- Work near power lines.
- Ground the antenna and coaxial cable as recommended in National Electrical Code (published by the National Fire Protection Association, Batterymarch Park, Quincy, MA 02269).

If you do not feel comfortable about doing these tasks or complying with installation requirements (or, if you have never installed an antenna before), contact **1-800-DIRECPC** for information on having your DirecPC system installed by an authorized professional installer. DirecPC Customer Care will explain what services will be provided and the applicable installation fees.

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## CAUTION



**Before installing the antenna, check local zoning codes, covenants, and other restrictions. Some communities prohibit installing satellite antennas or place limits on the mounting height of the antenna.**

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## 1.2 ABOUT DIREPC SERVICES

There are three DirecPC services available: Turbo Internet™, Turbo Webcast™, and Turbo Newscast™.

### **TURBO INTERNET™**

The Turbo Internet service provides the high speed Internet connection and supports other Internet capabilities including Gopher, file-transfer protocol (FTP), e-mail, Usenet, and so on. Turbo Internet lets you use your favorite browser to surf the Web, too.

### **TURBO WEBCAST™ AND TURBO NEWSCAST™**

The Turbo Webcast™ and Turbo Newscast™ services deliver your favorite web sites and newsgroups to you automatically via satellite. Both services are *broadcast Internet services* that you can access *without having to dial out with your modem!* Using the DirecPC Electronic Program Guide (EPG), you choose from a Turbo Webcast listing of top web sites and a Turbo Newscast listing of more than 30,000 Usenet newsgroups. The DirecPC software then “captures” the selected web sites and newsgroups as they are broadcast by the DirecPC satellite and automatically stores them on your PC’s disk drive.

News-oriented web sites are typically updated every hour. Entertainment-oriented web sites are typically updated several times per day. Usenet newsgroups are updated daily on a continual basis.

Depending on the size and complexity of the web site, you will typically receive and store 3 to 4 levels of the web site. When you want to go to areas that are not stored, DirecPC Turbo Internet automatically dials into the Internet and takes you to the desired web page.

### **1.3 DIRECPC COMPONENTS**

DirecPC consists of the following:

- A 20 x 36-inch elliptical satellite antenna
- A DirecPC internal or external satellite modem and software that are to be installed in the user's PC

### **1.4 GETTING STARTED**

After unpacking the components of the DirecPC system and inspecting them for damage:

1. Install the DirecPC modem according to the instructions in the *Internal Satellite Modem Installation Guide* or *External Satellite Modem Installation Guide*.
2. Install and configure the DirecPC software according to procedures in chapter 2, "Installing the DirecPC software."
3. Install and aim the antenna toward the satellite according to the instructions in the antenna installation guide that came packaged with your antenna mount.
4. Register yourself as a DirecPC user and configure your computer to use the Turbo Webcast and Newscast services according to procedures in chapter 3, "Configuring the DirecPC software."
5. Begin using the DirecPC Electronic Program Guide (EPG) to access the Turbo Internet, Turbo Webcast, and Turbo Newscast services and start having fun!

## 2 INSTALLING THE DIRECPC SOFTWARE

This chapter provides instructions for installing the software needed to configure and operate the DirecPC system. DirecPC software runs on computers using Microsoft Windows 95, 98, 98 SE, or Windows NT Workstation 4.0 operating systems if you have an internal PCI satellite modem; or Windows 98/98 SE if you have an external USB satellite modem.\*

Your equipment and system software must meet the following requirements:

<b>Component</b>	<b>Recommended</b>	<b>Minimum</b>
<b>Computer</b>	Pentium 200 MHz or faster	Pentium 90 MHz
<b>Random-access memory (RAM)</b>	Windows 95: 32 MB or more Windows 98: 64 MB or more Windows NT: 64 MB or more	Windows 95: 16 MB Windows 98: 32 MB Windows NT: 32 MB
<b>Monitor</b>	VGA (or better) with 1 MB	VGA with 512 kbytes of VRAM
<b>Mouse</b>	Windows-compatible mouse graphics tablet, or other pointing device	Windows-compatible mouse
<b>CD-ROM drive</b>	Any speed	Any speed
<b>Hard disk drive</b>	20 MB for application, additional storage space is required to hold downloaded packages	20 MB for application
<b>Modem (for transmitting data)</b>	Hayes-compatible 28.8 kbps (or faster) modem	Hayes-compatible 9600-baud (V.32) modem

\* The external satellite modem does not work with Windows 95 or Windows NT.

## 2.1 DIREPC SOFTWARE INSTALLATION

Before you install the DirecPC software, exit from all open applications. If there are applications running from which you do not know how to exit (such as system wizards or helper applications), refer to the documentation that came with the software to learn how to shut them down.

Installing the DirecPC software takes about 30 minutes. Perform the following procedure to install the software:

*Note:* Some virus detection programs can interfere with the DirecPC software installation. If you are using a virus detection program, temporarily disable it before you install the DirecPC software.

Also note that administrative privileges are required to install DirecPC software under Windows NT 4.0.

1. Start Microsoft Windows or (for PCI internal satellite modem installations only) Windows NT Workstation 4.0.
2. Insert the DirecPC CD-ROM into the drive.
3. Click on the *Start* button.
4. Select the *Run* command.
5. In the Run dialog box, type **[drive]:\SETUP**, where [drive] is the name of the drive into which you inserted the CD-ROM for example, D:\SETUP).
6. Click on the OK button. After a short delay, the DirecPC Setup screen displays. Follow the instructions on the screen to install the software.
7. When the *Restart Windows* screen appears, click on the *Yes, I want to restart my computer* button, then click on the *Finish* button to restart the computer.

*Note:* If you have a problem or question during the following steps, help is two mouse clicks away. First, click on the  button to start the Help tool: the cursor will change to a question mark (?). Then click on the item you need help with.

8. After the computer has restarted Windows or Windows NT, the DirecPC Welcome screen will appear. Click on the Next button and follow the instructions on the screen to finish installing the software.
9. When you reach the Antenna Pointing screen, record the elevation, magnetic azimuth, and polarization values below, then go to step 10.
  - Elevation \_\_\_\_\_
  - Magnetic azimuth \_\_\_\_\_
  - Polarization \_\_\_\_\_
10. Click on the Finish button, then click Yes to restart you computer.
11. Use the Antenna Installation Guide that came with your universal mount, pole mount, or non-penetrating mount to install and align the antenna; then refer to chapter 3, "Configuring the DirecPC software."

## **2.2 UNINSTALL INSTRUCTIONS**

Do the following to remove the DirecPC software from your computer:

1. Verify that no DirecPC applications are running.
2. Click on *Start > Settings* and select *Control Panel*.
3. Double-click on the *Add/Remove Programs* icon.
4. Click on the *DirecPC* entry in the *Install/Uninstall* window, then click on the *Add/Remove* button. When the dialog box asking if you're sure you want to remove DirecPC appears, click on the *OK* button. Windows or Windows NT will remove all DirecPC programs and drivers. [This may take a minute or longer to complete.]
5. Restart the computer. The DirecPC software is now uninstalled.

## 3 CONFIGURING THE DIRECPC SOFTWARE

This chapter provides instructions for registering yourself as a DirecPC user and configuring your computer to use the Turbo Webcast and Newscast services.

*Note:* You need to have already performed the procedures in chapters 1 and 2, and installed and aligned the antenna before performing the following steps.

*Note:* If you have a problem or question during the following steps, help is only two mouse clicks away. First, click on the  button to start the Help tool; the cursor will change to a question mark (?). Then click on the item you need help with.

1. Double-click on the *DirecPC* icon on the Desktop and follow the instructions on the screen to register yourself as a DirecPC user and set up your computer to receive the Turbo Webcast and Newscast services.
2. When registration and setup are complete, click the *Finish* button to exit.

***Congratulations! Installation is complete.*** You should now be looking at the Home Base section of the DirecPC Electronic Program Guide (EPG). Use the EPG to access the Turbo Internet, Turbo Webcast, and Turbo Newscast services. You can also use the Service Station section of the EPG to check on the status of your DirecPC account.

*Note:* Detailed instructions for configuring Turbo Newscast can be found in the Turbo Newscast section of the DirecPC Electronic Program Guide (EPG). Click on the *DirecPC* icon on the desktop to open the EPG and click on the “Turbo Newscast” button in the left bar. Click on the “Set up Newscast” button for step-by-step instructions on configuring the Personal News Server and a Newsreader client.



## **A** OBTAINING THE DIREPC DOCUMENTATION FROM THE CD-ROM

This CD-ROM contains several documents that contain information related to installing and using your DirecPC equipment. To read the documentation, you must have the Adobe Acrobat reader installed on your computer. If you don't, perform the following procedure to install the reader software onto your hard disk drive, and then access the desired document using the reader. To install the Acrobat reader:

1. Copy the file ACROREAD.EXE. from \doc into a temporary directory on your hard disk drive.
2. Click on the Start button.
3. Select the Run command.
4. In the Run dialog box, type [drive]:[temp]\ACROREAD, where [drive] is the name of the hard disk drive where the ACROREAD.EXE file is stored and [temp] is the temporary directory where it is located (for example, C:\TEMP\ACROREAD).
5. Click on the OK button. This will install the Adobe Acrobat application and create an icon.
6. Run Adobe Acrobat and open the desired document.

When you have finished installing the Adobe Acrobat reader, you can access the following related documentation:

- DirecPC Grounding Information (document 1026261-0001) located in \documents\grounding.pdf

This document provides grounding guidelines drawn from the National Electrical Code 1993 reference manual.

- Getting Started (document 1022921-0001) located in \documents\g\_start.pdf  
This document is the online version of the guide in your hands now.
- DirecPC Distribution System Information and Accessories Guide (document 1022922-0001) located in \documents\access.pdf  
This document describes how to install the DirecPC system in uncommon configurations and includes detailed information about accessories recommended for use with the DirecPC system.
- DirecPC Antenna Installation Guide (document 1022925-0001) located in \documents\ant\_univ.pdf  
This document describes how to install and align the DirecPC antenna on the universal mount.
- DirecPC Antenna Installation Guide (for Non-Penetrating Mount) (document 1022923-0001) located in \documents\ant\_npm.pdf  
This document describes how to install the DirecPC antenna on the optional non-penetrating (NPM) mount.
- DirecPC Antenna Installation Guide (for Pole Mount) (document 1022924-0001) located in \documents\ant\_pole.pdf  
This document describes how to install the DirecPC antenna on an optional pole mount.

# **B SOFTWARE LICENSE AND WARRANTY INFORMATION**

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Hughes Network Systems  
11717 Exploration Lane  
Germantown, MD 20876

Purchase Date: \_\_\_\_\_ DirecPC Adapter Serial Number: \_\_\_\_\_

*Note: For warranty assistance (to return a failed item of hardware, for instance) contact 1-800-DIRECPC.*