

**TARGUS**  
NOTEWORTHY®

**External Drive**  
for Combo DVD/CD-RW-ROM and DVD-ROM

**TARGUS**  
Essential Accessories for Mobile Computing

NOTEWORTHY®  
**Making Your Mobile Life Easier.**

Visit our Web site at: [www.targus.com](http://www.targus.com)

Features and specifications are subject to change without notice. © 2002 Targus Corp.  
400-0084-001A

**USER'S GUIDE**  
**Making Your Mobile Life Easier.**

BRUSSELS HANNOVER BARCELONA TOKYO MILANO AMSTERDAM SINGAPORE LONDON PARIS NEW YORK LOS ANGELES TORONTO HONG KONG SYDNEY

 PMS Black  
15%

 PMS Black  
100%

# Contents

External Drive .....	4
Introduction .....	4
System Requirements .....	5
Connecting the External Drive to Your Computer .....	6
Installing the Driver Software .....	7
Windows® 98 Operating System .....	7
Windows® Me Operating System .....	8
Windows® 2000/XP Operating System .....	8
Windows NT® 4.0 Operating System .....	9
Using the External Drive .....	10
Inserting and Removing a Disc .....	10
Playing Audio CDs .....	11
Reading Data DVDs .....	11
Playing DVD Movies .....	12
Hot Swapping .....	12
Writing and Rewriting CDs (Model NW930 Only) .....	12
Things to Remember .....	13
Operating Hints .....	13
Safety Measures .....	13

Specifications.....	14
Troubleshooting .....	16
Solving General Problems .....	16
Changing the Drive Letter Assignment .....	17
Writing and Rewriting Problems .....	17
Technical Support.....	17
Product Registration .....	19
Warranty.....	19
Regulatory Compliance .....	19
FCC (Federal Communications Commission).....	19

# External Drive

## Introduction

Thank you for purchasing a Targus Noteworthy External Drive. Light weight and ultra-portable, the external DVD-ROM and Combo DVD/CD-RW-ROM drives run off your computer's power supply, eliminating the need for an AC adapter. After installing an external drive, you can use it at any time by inserting the PC Card cable into your computer's Type II PC Card slot.

This user's guide describes how to connect the external drive to your computer, install default and enhanced performance drivers (Windows® 2000 operating system only) and how to operate the drive for the following models:

- NW930 – Combo DVD/CD-RW-ROM Drive
- NWDVD03 – DVD-ROM Drive

In addition to this user's guide, depending on the model that you purchased, this package contains:

### **NW930**

- Combo DVD/CD-RW-ROM drive
- PC Card cable
- AC adapter
- Driver software CD
- DVD Player CD
- Easy CD Creator™ software CD-ROM

### **NWDVD03**

- DVD-ROM drive
- PC Card cable
- AC adapter
- Driver software CD
- DVD Player CD

## System Requirements

To use the external drive, your computer must meet the following hardware requirements and run one of the operating systems listed in the table below.

### Hardware

- PC with an Intel® Pentium® processor or equivalent and a hard disk drive
- 64 MB RAM or higher, depending on the operating system
- PCMCIA Card interface (type II or higher)
- CD-ROM drive

### Operating System

- Windows® 98/Me/2000/XP
- Windows NT® 4.0

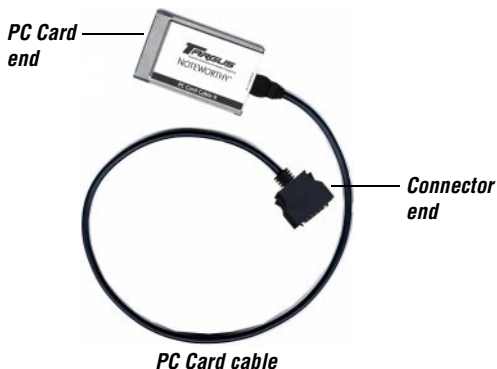


NOTES: The external drive receives its power from your computer's PC Card slot, which must be in full compliance with PC Card specifications and supply a minimum of 5V/1A of power.


For the DVD movie playback feature to work, you must have a DVD-ROM decoder installed in your computer or a player application, such as DVExpress or Power DVD, set up under the Windows® 98/Me/2000/XP operating system. DVD movie playback is not available with the Windows NT® operating system.

# Connecting the External Drive to Your Computer

- 1 Turn off your computer and any devices connected to it.
- 2 Attach the connector end of the PC Card cable to the external drive's PC Card cable port.




- 3 Plug the PC Card end of the cable into any Type II PC Card slot on your computer.
- 4 Connect the supplied AC adapter to the AC power jack on the external drive and plug the adapter into a working power outlet.

 **NOTE:** For the best results, charge the drive using the supplied AC adapter for at least one hour before connecting it to your computer and installing the driver software.

You can now begin installing the driver software.

# Installing the Driver Software

After connecting the external drive to your computer, you can now install the driver software for your operating system.

 **NOTES:** Installing the external drive may change internal drive letter assignments. To keep the original drive letter assignments, you can change the letter for the combo drive. See “Changing the Drive Letter Assignment” on page 17.

To write and rewrite CDs, if you are running the Windows<sup>®</sup> 98/Me/2000 operating systems, you must also install the supplied CD-writing software. See “Writing and Rewriting CDs (Model NW930 Only)” on page 12.

## Windows<sup>®</sup> 98 Operating System

- 1 Turn on your computer.
- 2 Insert the driver software CD into your computer’s CD-ROM drive.  
The Add New Hardware Wizard appears.

- 3 Click **Next**.

The locate driver screen appears.



*Sample New Hardware Wizard locate driver screen*

- 4 Select “Search for the best driver for your device (Recommended),” and click **Next**.  
The search driver location screen appears.

- 5 Select “CD-ROM drive” and click **Next**.
- 6 Click **Next** to confirm selection of the driver.  
The ready to install screen appears.
- 7 Click **Next**.  
The driver loads from the CD-ROM.
- 8 Click **Finish** to complete the driver installation.  
You are now ready to begin using your external drive.

## Windows® Me Operating System

- 1 Turn on your computer.
- 2 Insert the driver software CD into your computer’s CD-ROM drive.  
The Add New Hardware Wizard appears.
- 3 Select “Automatic search for a better driver (Recommended)” and click **Next**.  
The driver loads from the CD-ROM.
- 4 Click **Finish** to complete the driver installation.  
You are now ready to begin using your external drive.

## Windows® 2000/XP Operating System

### Installing the Default Driver

Installing the default driver from your operating system allows for instant access to your drive and uses fewer resources, such as memory and drive space, allowing your computer to run more efficiently.

To install the default drivers:

- 1 Turn on your computer.
- 2 Insert the driver software CD into your computer’s CD-ROM drive.  
The Found New Hardware Wizard appears and the operating system installs the drivers automatically. No other steps are necessary.  
You are now ready to begin using your external drive.



## Upgrading to the Enhanced Performance Driver

Upgrading to the enhanced driver from the supplied CD enables you to view DVD movies and increases DVD performance. To do this:

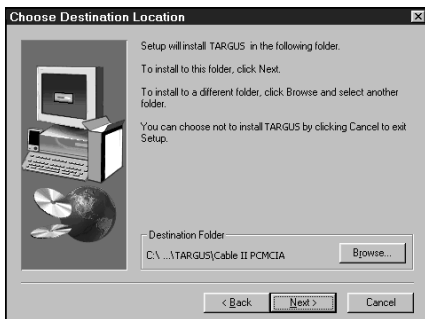
- 1 From your desktop, right-click the **My Computer** icon and click **Properties**.
- 2 Select the **Hardware** tab and click **Device Manager**.
- 3 Locate **IDE ATA/ATAPI Controller** and click **+** to expand the list.
- 4 Double-click **PCMCIA IDE/ATAPI Controller**, select the **Driver** tab and click **Update Driver**.  
The Upgrade Device Driver Wizard appears.
- 5 Click **Next**.  
The Install Hardware Device Drivers screen appears.
- 6 Select “Search for a suitable driver from my device (recommended)” and click **Next**.  
The Locate Driver Files screen appears.
- 7 Insert the driver software CD into your computer’s CD-ROM drive, select **CD-ROM drives** so that a check mark appears in the check box and click **Next**.
- 8 Click **Next** again to confirm selection of the driver.
- 9 If the Digital Signature Not Found dialogue box appears, click **Yes** to continue.  
The enhanced performance driver loads from the CD-ROM.
- 10 Click **Finish** to complete the driver installation.

## Windows NT® 4.0 Operating System

- 1 Turn on your computer.
- 2 Insert the driver software CD into your computer’s CD-ROM drive.
- 3 Click **Start, Run** then enter D:\DOS\_NT40\SETUP.EXE (where D: is the path of your CD-ROM drive) and click **OK**.

The driver software agreement screen appears.

- Click **OK** to accept the agreement and continue setup, or **Cancel** to exit setup.  
If you choose to continue setup, the Choose Destination Location screen appears.



### ***Choose Destination Location screen***


- Click **Next** to keep “C:\Program Files\TARGUS\Cable II PCMCIA” as the destination folder.  
To copy the files into a different directory, click **Browse** and locate the desired path name, then click **Continue** to confirm the new destination folder.  
To complete the installation, follow the onscreen instructions.

You are now ready to begin using your external drive.

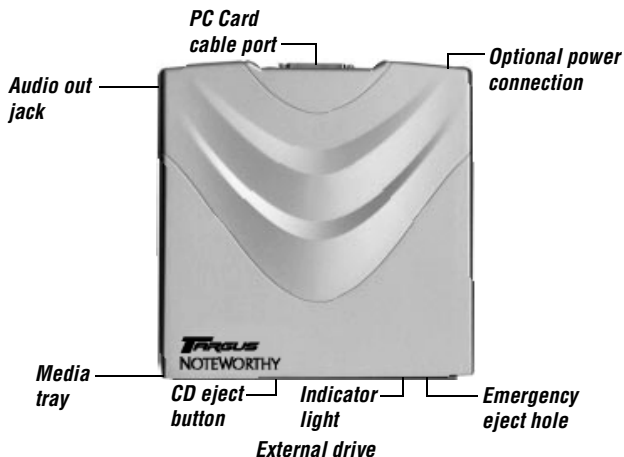
## **Using the External Drive**

### **Inserting and Removing a Disc**

- Turn on your computer and press the eject button to open the tray.
- To insert a disc, hold it by the edges and place it in the tray with the readable (plain) side down. If you are using a high capacity disc, place the side of the disc you want the drive to read facing down. Then, gently press down on the disc until it snaps into place.
- To remove a disc, grasp it by the edges and gently pull up until the disc is released.

 **CAUTION:** Avoid touching the readable (plain) side(s) of a disc. Touching the readable side of the disc may cause read errors, poor performance or failed operation.

- 4 Close the media tray by gently pushing it until it “clicks” into place.



### Removing a Disc Using Emergency Eject

If you need to remove a disc when there is no power to your computer, you can open the tray manually. To do this, gently insert a slim, straight object, such as a bent-open paper clip, into the emergency eject hole until you feel some resistance. Remove the paper clip and carefully open the tray by hand.

### Playing Audio CDs

You can play audio CDs on your external drive by using the CD Player application included in the operating system. To hear the audio, you can either:

- Connect headphones or external speakers to the Audio Out jack on the external drive.
- Connect an audio cable from the Audio Out jack on the external drive to the Line In jack on your computer.

### Reading Data DVDs

You can read data DVDs without installing any special software.

## Playing DVD Movies

To play back movies, you must have a DVD-ROM decoder installed in your computer or have a DVD player application set up under the Windows® operating system.



**NOTE:** The Windows NT® operating system does not support DVD movie playback.

## Hot Swapping

You can connect and disconnect the external drive while the computer is running. To attach the external drive, just insert the PC Card cable into your computer's Type II PC Card slot.



**NOTE:** If you are running the Windows NT® operating system, you must have the Softex Card Executive 2.0 card and socket services software installed on your computer in order to hot swap the drive.

To remove the PC Card cable while the computer is turned on:

- 1 Double-click the **PC Card** icon in the system tray or click **Start, Settings,** and **Control Panel**.
- 2 Double-click **PC Card (PCMCIA)**.
- 3 Highlight the PC Card cable and click **Stop**.  
The message "You may now safely remove the card" appears.
- 4 Remove the PC Card cable from your computer.

## Writing and Rewriting CDs (Model NW930 Only)

To write and rewrite CDs, if you are running the Windows® 98/Me/2000/XP operating systems, you must install writing software. For your convenience, the Easy CD Creator software is supplied. To install the Easy CD Creator software:

- 1 Insert the supplied CD-ROM into the external drive (or your computer's internal CD-ROM drive if it has one).
- 2 If setup does not begin automatically, click **Start**, then **Run**, and enter `D:\setup.exe` (where D: is the path of the CD-ROM or combo drive) and then click **OK**.
- 3 Follow the on-screen instructions to complete installation.

For more information on how to use the Easy CD Creator application, refer to the documentation on the CD-ROM.

# Things to Remember

## Operating Hints

- Use the emergency eject mechanism only if the external drive is not connected to your computer or if the computer's battery is flat and there is no power available for the eject button. Excessive use of the emergency eject mechanism may damage it and cause the mechanism to stop working.
- Never press the eject button while the drive is accessing a disc.
- The external drive operates in either an upright or horizontal position. To prevent possible damage, avoid changing the drive's position while it is in use.
- Avoid using or storing the external drive in extreme temperatures. The environmental specifications while operating are 50-113 F (10-45 C).
- After transporting the external drive, allow it to reach room temperature before using it.



**CAUTION:** Changes in temperature during transport, particularly from a cool to a warmer temperature, can cause condensation to form in the drive and may result in operating problems. Allowing the drive to reach room temperature helps to prevent this.

- Avoid using the external drive in dusty or humid surroundings.
- A short delay is normal before the external drive reads an audio CD, CD-ROM, DVD or DVD-ROM.



**WARNING:** Never clean the external drive with a commercially available CD or CD-ROM cleaning set as doing so may cause damage to the drive.

## Safety Measures

- Any attempt to disassemble, adjust or repair the external drive may result in exposure to laser light or other safety hazards.
- This is a Class 1 Laser Product. This product complies with all applicable safety standards, DHHS Rules 21 CFR Chapter 1, Sub chapter J. The laser beam generated is totally enclosed during all modes of normal operation, and no hazardous laser light is emitted from the drive.

# Specifications



NOTE: Specifications are for all models unless indicated otherwise.

## Models

NW930

NWDVD03

## Dimensions

Length: 6.81 inches (17.3 cm)

Width: 5.35 inches (13.6 cm)

Height: 0.78 inches (2 cm)

## Weight

0.9 pounds (450 g)

## Connection to the computer

PC Card cable via PC Card slot (PCMCIA, Type II)

## Voltage

DC + 5V± 5%

## Media Formats

The external drive reads formats according to the following CD (compact disc) and DVD (digital versatile disc) standards:

- MS-DOS® operating system data
- CDs (High Sierra, Mode 1 & Mode 2 complying with ISO 9660)
- Enhanced CD
- Kodak Photo CDs (single- and multi-session)
- UDF (Universal Disc Format)
- Audio CDs
- CD-Digital Audio
- i-trax CD
- CDI, CDI-Ready, CD-Midi, CD-R, CD-RW, CD Plus
- CD-TEXT, CD-EXTRA
- Video CDs
- DVD-ROM, DVD-R
- DVD-Video

## Storage Capacity

DVD-ROM type description	DVD-5	DVD-9	DVD-10	DVD-18
Capacity according to the manufacturer	4.7 GB	8.5 GB	9.4 GB	17 GB
Actual capacity	4.38 GB	7.96 GB	8.75 GB	15.92 GB
Written sides	1	1	2	2
Layers per side (referring to the information-carrying layer of the disc)	1	2	1	2

## Data Buffer

<b>NW930</b>	DVD:	512 kB
	CD-RW:	128 kB
<b>NWDVD03</b>		512 kB

## Access Time

<b>NW930</b>	DVD:	180 ms (average)
	CD-RW:	220 ms (random)
<b>NWDVD03</b>	DVD:	130 ms (average)
	CD:	95 ms (average)

## Maximum Speed

<b>NW930</b>	CD-Mode:	24x CD speed (3,600 KB/s)
		8x CD-R write speed
		4x CD-RW overwrite speed
	DVD-Mode:	8x DVD speed (8,112 KB/s)
<b>NWDVD03</b>	CD-Mode:	24x CD speed (3,600 KB/s)
	DVD-Mode:	8x DVD speed (10,816 KB/s)

## Supported Disc Sizes (Model NW930 Only)

Write:	12 cm (4.72 inches)
Read:	8 cm (3.15 inches)
	12 cm (4.72 inches)

## Disc Write Modes (Model NW930 Only)

DAO, SAO, TAO

Variable and Fixed Packet Writing

# Troubleshooting

To view Frequently Asked Questions and download Driver updates, visit our Web site at:  
<http://www.targus.com/support>

## Solving General Problems

### **If the external drive is not functioning:**

- Verify that your system meets the hardware requirements. See “System Requirements” on page 5.
- Check that the drive is turned on and getting power.
- Make sure the cable is firmly attached to the drive and that the PC Card is fully inserted into the PC Card slot of your computer.
- Remove the driver software and reinstall it. To do this:
  - 1 Insert the driver software CD into your computer’s CD-ROM drive.
  - 2 From your desktop, double-click the **My Computer** icon.
  - 3 Select the CD-ROM drive, double-click the **DriverRemove.exe** file and follow the on-screen instructions.

### **If there is no sound when using the external drive, check that:**

- The disc you are using is an audio disc or supplies audio output.
- The headphones/speakers are correctly connected.
- The cable is in good condition.
- The volume is turned up.
- The audio software is installed.



## Changing the Drive Letter Assignment

The following steps describe how to change the drive letter for the external drive under the Windows® 95/98/Me operating system.

- 1 Click **Start**, **Settings**, and then **Control Panel**.
- 2 Click **System** and select the **Device Manager** tab.
- 3 Click either **DVD-ROM** or **Drive**, then **external drive**.
- 4 Click **Properties**, then **Settings**.

The current drive letter assignment and the reserved drive letters appear.

- 5 Under Reserved Drive Letter enter the letter you want to represent the external drive.
- 6 Click **OK**.



**NOTE:** You must restart your computer for the changes to take effect.

## Writing and Rewriting Problems

**If the external drive is not writing or rewriting data properly, try the following:**

- Reduce the write/rewrite speed from 4x to 2x.
- Disable all Advanced Power Management (APM) functions.
- Remove or disable all Terminate and Stay Resident (TSR) programs, such as your anti-virus program.
- Defragment your hard disk drive.

## Technical Support

In the unlikely event that you encounter a problem with your Targus accessory, please contact our technical support team at:

Email: [techsupport@targus.com](mailto:techsupport@targus.com)

Internet: <http://www.targus.com/support.asp>

Have the following information available:

- The serial number of your external drive (located on the back of the drive).
- The name and model of your computer and details of its hardware specification.

- The name and version number of your operating system and of the software that has the problem.
- A detailed description of the problem including exact error messages and when these errors occur.
- What you do to replicate the problem.
- If this is a new problem, whether you have recently changed your system configuration and in what way.

Our knowledgeable staff is also available to answer your questions through one of the following telephone numbers.

## US

Monday through Friday, 8:00 a.m. (08:00) to 8:00 p.m. (20:00) Eastern time:

800-283-6325

## Canada

Monday through Friday, 9:00 a.m. (09:00) to 5:00 p.m. (17:00) Eastern time:

888-827-4877

## Europe

Belgium	+32 0 02-717-2451
Denmark	+45 0 35-25-8751
France	+33 0 1-64-53-9151
Germany	+49 0 21-16-579-1151
Italy	+39 0 24-827-1151
Netherlands	+31 0 53-484-9470
Spain	+34 0 91-745-6221
Sweden	+46 0 8-751-4058
Switzerland	+41 0 1-212-0007
United Kingdom	+44 0 20-7744-0330
Eastern Europe & others	+31 0 53-484-9479

## Product Registration

For more efficient customer service and to activate the product's warranty, Targus recommends that you register your Targus accessory shortly after purchasing it.

To register your Targus accessory, go to: <http://www.targus.com/registration.asp>

You will need to provide your full name, email address, phone number, and company information (if applicable).

## Warranty

Targus warrants this product to be free from defects in materials and workmanship for one year. If your Targus accessory is found to be defective within that time, we will promptly repair or replace it. This warranty does not cover accidental damage, wear and tear, or consequential or incidental loss. Under no conditions is Targus liable for loss of, or damage to, a computer; nor loss of, or damage to, programs, records, or data; nor any consequential or incidental damages, even if Targus has been informed of their possibility. This warranty does not affect your statutory rights.

Warranty Registration at <http://www.targus.com/registration.asp>

## Regulatory Compliance

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.

## FCC (Federal Communications Commission)

### Declaration of Conformity

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules, and RS 210 Regulations (Canada). 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
- Move the computer away from the 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 technician for help

MS-DOS, Windows and Windows NT are registered trademarks of Microsoft Corporation. Easy CD Creator is a trademark of Roxio, Inc. Mediamanics is a trademark of National Semiconductor Corp. All other trademarks are the property of their respective owners.