IBM

ThinkPad DVD 6X (RPC II) UltraslimBay Drive

User's Guide

OPTIONS *by* **IBM**

CAUTION

Read the ThinkPad System *Safety Booklet* before installing this product.

Note

Be sure to keep your proof of purchase, because it might be required for warranty services. (See Appendix A.)

First Edition (October 1999)

The following paragraph does not apply to the United Kingdom or any country where such provisions are inconsistent with local law:
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The CD-ROM or DVD drive, which can be installed in the IBM
ThinkPad computer, is a laser product. The drive's classification
label (shown below) is on the surface of the drive.

        CLASS 1 LASER PRODUCT
        LASER KLASSE 1
        LUOKAN 1 LASERLAITE
        APPAREIL A LASER DE CLASSE 1
        KLASS 1 LASER APPARAT

The drive is certified in the U.S. to conform to the requirements of
the Department of Health and Human Services 21 Code of Federal
Regulations (DHHS 21 CFR) Subchapter J for Class I laser products.

In other countries, the drive is certified to conform to the
requirements of EN60825.

⚠ **DANGER**

> **Do not open the CD-ROM or DVD drive unit; no user**
> **adjustments or serviceable parts are inside.**
>
> **Use of controls, adjustments, or the performance of**
> **procedures other than those specified might result in**
> **hazardous radiation exposure.**

Class 1 laser products are not considered hazardous. The design of
the laser system and the CD-ROM or DVD-ROM drive ensures that
there is no exposure to laser radiation above a Class 1 level during
normal operation, user maintenance, or servicing.

Some drives contain an embedded Class 3A laser diode. Note this warning:

⚠️ **DANGER**

**Emits visible and invisible laser radiation when open.
Avoid direct eye exposure. Do not stare into the beam
or view it directly with optical instruments.**

Contents

Part 1. About the IBM ThinkPad DVD 6X (RPC II) UltraslimBay Drive

The *DVD 6X (RPC II) UltraslimBay Drive* (hereafter called the *DVD option*) supports the ThinkPad 600 and 570 series computers in the Windows 98 Windows 95, or Windows NT 4.0 (600X only) environment.

This booklet explains how to install software programs. For information on how to insert the DVD option into your computer, refer to the user's reference of the computer.

To use the DVD option, you need to update or install the software programs after inserting the DVD option into the UltraslimBay. See the following table and go to the appropriate section.

Model	Installation procedures

ThinkPad 600	To view a DVD movie, you need a DVD adapter (such as a MARGI System DVD-to-Go MPEG-2 DVD PCMCIA Adapter).
	
	1. Install the hot/warm swap driver.
	2. Update the display driver.
	3. Install the program.
	    a) Enable the DMA setting.
	    b) Install DVDExpress (the DVD movie player program).

ThinkPad 600E	1. Update the display driver (2465-55x and 5Ax only). *x* can be any number, depending on the country. Check the serial number label on the bottom of your computer to determine the machine type.
	
	2. Install the program.
	    a) Enable the DMA setting.
	    b) Install DVDExpress.

About the DVD 6X (RPC II) UltraslimBay Drive

Model	Installation procedures
ThinkPad 600X and 570 series	Install the program. 1. Enable the DMA setting (Windows 98 and Windows 95 user only). 2. Install DVDExpress.

Note: If you are using ThinkPad 600X and are reinstalling Windows NT 4.0, you need to install the IDE driver from the Software Selection CD. To check if the IDE drive is installed, double-click **SCSI Adapter** in the **Control Panel**; then make sure the **ThinkPad PIIX4 IDE Driver** appears in the **Driver** window.

Note: The DVD movie player is supported by Windows 98 and Windows 95 OSR2.0 or later versions. You can check which version of Windows 95 you are using by doing the following:

   1. Click **Start**, move the cursor to **Settings**, and then click **Control Panel**.
   2. Double-click **System**.

Read the numbers under "System."

   4.00.950B means that your version is Windows 95 OSR2.0 or OSR2.1.
   4.00.950C means that your version is Windows 95 OSR2.5.

Checking the items

This package includes the following items:

   DVD 6X (RPC II) UltraslimBay Drive

   This user's guide

   DVD Software CD-ROM (includes the display driver)

   Hot/Warm Swap Driver CD-ROM

Installing the software

This section describes how to install the software. The software that needs to be installed depends on your computer model and operating system. Go to the appropriate section.

Installing the hot/warm swap driver (ThinkPad 600 computer only)

This section applies to the ThinkPad 600 computer user only.

The following table shows the country code that you will need in the instructions:

Country	Code	Country	Code
Denmark	DK	Netherlands	NL
Finland	FI	Norway	NO
France	FR	Spain	SP
Germany	GR	Sweden	SW
Italy	IT	U.K. and U.S.	US
Japan	JP		

To install the hot/warm swap driver, do the following:

1 Start Windows 95 or Windows 98.

2 Insert the Hot/Warm Swap Driver CD-ROM into the DVD drive.

3 Click **Start** and move the cursor to **Setting**; then click **Control Panel**.

4 Double-click **Add New Hardware**.

5 Click **Next**. (For Windows 98, select **No** and click **Next**.)

6 Click **Other devices...**

7 Click **Have Disk**.

8 Type `z:\cc`

> **Note:** `z` represents the drive letter of the DVD drive, and `cc` is the county code.

9 Click **OK**.

10 Select **UltraBay Hot/Warm Swap Driver**, and click **Next**.

11 Click **Finish**.

12 Restart the computer.

Updating the display driver (ThinkPad 600 and 600E computers only)

This section applies to the ThinkPad 600 and ThinkPad 600E (2465-55x and 5Ax) computers.

> **Note:** *x* can be any number, depending on the country. Check the serial number label on the bottom of your computer to determine the machine type.

To update the display driver, go to appropriate section:

If you are using Windows 98, go to the next section.

If you are using Windows 95, go to "Updating procedure for Windows 95 ."

Updating procedure for Windows 98

1 Insert the DVD Software CD-ROM into the DVD drive.

2 Click **Start**.

3 Move the cursor to **Settings**, and click **Control Panel**.

4 Double-click **Display**.

5 Click the **Settings** tab.

6 Click **Advanced...**

7 Click the **Adapter** tab.

8 Click **Change...**

The "Update Device Driver Wizard" window appears.

9 Click **Next**.

10 Click **Display a list of all the device drivers in a specific location so you can select the driver you want**.

11 Click **Next**.

12 Click **Have Disk...**

13 When you are prompted to specify the driver disk, do one of the following:

For the ThinkPad 600 computer, type `z:\NM216 \`

For the ThinkPad 600E computer, type `z:\NM22  \`

Note: `z` represents the drive letter of the DVD drive.

14 Click **OK**.

15 Select one of the following:

For the ThinkPad 600 computer:
   NeoMagic MagicGraph 128XV

For the ThinkPad 600E computer:
   NeoMagic MagicMedia 256AV

16 Click **OK**.

17 Click **Next**.

18 Click **Finish**.

19 Click **Close**.

20 Click **Close** again.

21 When you are prompted to restart the computer, click **Yes**.

Updating procedure for Windows 95

1 Insert the DVD Software CD-ROM into the DVD drive.

2 Click **Start**.

3 Move the cursor to **Settings**, and click **Control Panel**.

4 Double-click **Display**.

5 Click the **Settings** tab.

6 Click **Advanced Properties**.

7 Click **Change...**

8 Click **Have Disk...**

9 When you are prompted to specify the driver disk, do one of
the following:

> For the ThinkPad 600 computer, type `z:\NM216 \`

> For the ThinkPad 600E computer, type `z:\NM22 \`

Note: `z` represents the drive letter of the DVD drive.

10 Click **OK**.

11 Click **OK** again.

12 Click **Close**.

13 Click **Close** again.

14 When you are prompted to restart the computer, click **Yes**.

Installing the DVD movie program (DVDExpress)

This section describes how to install the DVD movie program (DVDExpress). If you are not going to watch DVD movies—that is, if you are going to use the DVD drive only for reading DVD-ROMs or CD-ROMs—you do not need to install DVDExpress.

If you are using the ThinkPad 600X computer with Windows NT 4.0, skip step 1.

   1 Enable the DMA setting.

   2 Install DVDExpress.

Enabling the DMA setting (Windows 95 and Windows 98 users only)

This section applies to Windows 95 and Windows 98 users only.

   1 Click **Start**, move the cursor to **Settings**, and click **Control Panel**.

   2 Double-click **System**.

   3 Click the **Device Manager** tab.

   4 Double-click the **CDROM** icon.
The DVD drive name appears under the **CDROM** icon.

   5 Double-click the DVD drive name.

   6 Click the **Settings** tab.

   7 Select the **DMA** and **Auto insert notification** check boxes. If the alert dialog appears, click **OK** to close it.

   8 Click **OK**.

   9 Click **Close** to close the "System Properties" window.

A message appears, informing you that the system settings have changed.

10 Click **OK** to restart the system.

Installing DVDExpress

To install DVDExpress, do the following:

1 Insert the DVD Software CD-ROM into the DVD drive.

2 Click **Start** and **Run**.

3 Type z:\DVDPLAYR\SETUP and click **OK**.

> **Note:** z represents the drive letter of the DVD drive.

4 Follow the instructions on the screen.

Viewing a DVD movie

After you install the DVD drive and DVDExpress, you can view a
DVD movie. You first need to set the DVD region code for your DVD
content, however.

DVD region codes

Regional coding is part of the protection scheme for DVD
content. The world is divided into six regions so that specific
content can be viewed only in the region where it is appropriate.
For example, Region 1 (U.S. and Canada) content can be viewed
only in Region 1. DVDExpress is also region–specific.

You can verify the region code of the content by looking at the
region code symbol on the back of the content packaging.

Region code	Region
1	U.S, Canada
2	Europe, Middle East, South Africa, Japan
3	Southeast Asia, Taiwan, Korea
4	Latin America, Australia, New Zealand
5	Former Soviet Union, the rest of Africa, India
6	People's Republic of China

Viewing a DVD movie

Start DVDExpress by inserting the DVD into the DVD drive. The region code is automatically set and you can see the movie. This is the initial setting.

After the region code has been set, if you insert a DVD whose region code is different, you are prompted if you want to change the region code. You can change the region code from your initial setting up to four times.

After the region code has been changed from its initial setting four times, it is fixed and can no longer be changed. Thereafter, you can play DVD content only from that region.

To display the region code status, do the following:

1 In the DVDExpress window, click **DVD Options**.

2 Click the **DVD Region** tab.

Starting DVDExpress

To start DVDExpress, do as follows:

1 Click **Start**, move the cursor to **Programs**, and click **Mediamatics DVD Express**.

2 Click **Mediamatics DVD Player**.

The "DVD movie player" window appears. For more information on how to play the DVD movie player, see the DVDExpress help.

> **Note:** If you want to watch a DVD movie on your TV, refer to the user's reference of your computer.

Viewing a DVD movie

Notes:

1. Your computer has been configured to provide the highest quality audio and video playback based on the available system resources. You can alter the default settings by changing the video resolution setting within the **Control Panel** of Windows 95 or Windows 98. Some systems do not have enough resources to provide full-quality audio and video playback at all resolution settings. If you experience poor playback performance, adjust the resolution to a lower setting.

2. Audio or video streams are decoded in software. The audio and video subsystems need to be fully functional and enabled.

3. *For ThinkPad 600, 600E and 570 users:* When you are viewing a DVD movie, the LCD resolution might be automatically set to 800 x 600, 256 colors.

Troubleshooting

Problem	Cause and action
The LCD resolution degrades when you play a DVD movie.	Reset the LCD size as follows: 1. Click **Start**, move the cursor to **Programs** and **ThinkPad**. Then click **ThinkPad Configuration**. 2. Click the **LCD** icon. 3. Click **Enable** in "Screen Expansion." 4. Click **OK**.
When you play DVDExpress with Windows 98 or Windows 95, the "No valid Disk/Drive found" message appears.	This message appears if you reboot or restart your ThinkPad computer with the DVD-ROM left in the DVD drive. Remove the DVD-ROM from the drive and then reinsert it. If the problem persists, check the drive assignments. Assignments should not skip letters. Suppose, for example, that you have assigned the hard disk drive as the C drive and the DVD drive as the E drive, and nothing has been assigned as the D drive. In this case, you would need to assign the DVD drive as the D drive. To change the drive letter form E to D, do the following: 1. Click **Start**, move the cursor to **Settings**, and click **Control Panel**. 2. Double-click **Device Manager**. 3. Double-click the letter currently assigned to your DVD drive (for example, E). 4. Click the **Settings** tab. 5. Select **D** in "Start drive letter" under "Reserved drive letters." 6. Click **OK** and restart the computer.