		ENGLISH
EXTERNAL SLIM DVD DRIVE USER MANUAL		
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### INTRODUCTION

This external USB2.0 external DVD/CD writer provides professional quality and performance for writing, rewriting and reading DVD and CD media. It supports Running OPC (ROPC) technology and is compatible with Windows Plug & Play function. In addition, the drive is equipped with innovate technologies to eliminate buffer-underrun errors, so you are free to use your computer for other tasks while the drive is writing to DVD or CD. With an internet connection, you can download the latest firmware, then update this drive so it will support latest technologies.

NOTE: The drive's maximum write, rewrite and read speeds are noted on the original package.

#### What You Can Do with the DVD Writer

- Archive data files onto recordable or rewritable DVDs or CDs
- Archive images and videos onto recordable or rewritable DVDs or CDs
- Record digital video or slide shows onto DVD+R, DVD+RW, DVD-R, and DVD-RW discs
- Read DVD+R, DVD+RW, DVD-R, DVD-RW, CD-R and CD-RW discs
- Play music CDs
- Play VCD & DVD movies
- Access interactive reference materials stored on DVDs
- Master new software programs on DVDs or CDs
- Create and burn LightScribe labels\*

#### **DVD** functions:

- Write to DVD+R and DVD-R (recordable DVD) media
- Write to double-layer DVD+R (recordable DVD+R9) and dual-layer DVD-R (recordable DVD-R9) media\*
- Write to DVD+RW and DVD-RW (re-writable DVD) media
- Read DVD-ROM, DVD+R, DVD-R, DVD+RW, DVD-RW, DVD+R9 and DVD-R9 discs.
- Read or write to DVD-RAM media\*

#### CD functions:

- Write to CD-R (recordable CD) media
- Write to ultra-speed CD-RW (rewritable CD) media
- Read CD-ROM and CD-R data media, and CD-RW and CD-DA (audio) media

\* indicates functions only supported by certain models. To check if your drive supports these functions, check the original packaging for feature listed, or visit us online for detailed specifications

#### Format Compatibility

DVD write: DVD+R Version 1.3, DVD-R writing), DVD+RW Version 1.3, DVD-R Version 2.1, and DVD-RW Version 1.2,

DVD+R9 Version 1.0, DVD-R9 Version 3.0 (for drives that support DVD double/duallayer)

DVD-RAM Version 2.2 (for drives that support DVD-RAM rewriting)

DVD read: DVD-ROM single/dual layer (PTP, OPT), DVD-R, DVD+R, DVD+R9, DVD-R9, DVD-RW, DVD+RW, DVD-RAM (only for drives that support DVD-RAM reading), DVD-Video, DVD-Audio, DVD-CPRM.

CD write: Orange Book Part 2 CD-R Volume 1, Part 2 CD-R Volume 2 Multi Speed, Part 3 CD-RW Volume 1 Low Speed, Part 3 CD-RW Volume 2 High Speed, Part 3 CD-RW Volume 3 Ultra Speed

CD read: CD-DA, CD-TEXT, CD ROM Mode-1, CD-ROM/XA Mode-2 Form-1 and Form-2, CD-I Ready, Video-CD, Karaoke-CD, Photo-CD, Enhance CD, CD extra, UDF(fixed/variable Packet mode), Multi-session, CD Plus, CD-R, and CD-RW.

### **Recording Modes Supported**

#### Track at Once

Data can be recorded to disc one track at a time. New tracks can be added later. This mode requires the disc to be "closed" (through the software application) before music CDs can be played back in a CD player or CD-ROM drive.

#### Disc at Once

Data can be recorded to an entire disc in one pass. In this mode, new data can not be added later.

#### Session at Once

Data can be recorded to a disc one session at a time. In this mode, new sessions can be written later. This mode allows more disc space to be used than multi-session mode allows, because no gap is created between sessions.

#### Multi Session

Data can be recorded to a disc in one session. In this mode, new sessions can be written later. This mode allows less disc space to be used than session-at-once mode allows, because a gap is created between sessions.

#### Packet Writing

Data can be added directly to or deleted from rewritable media. (Useful for data backup.) This mode requires software that supports packet writing.

# SYSTEM REQUIREMENT

# **System Requirements**

To ensure read/write/rewrite performance, a Windows-based PC system with the following specification is recommended:

CPU	Pentium 4 1.3GHz or higher
Operating System	Microsoft Windows 2000/XP/Vista and Windows-7
Memory	128 MB RAM (256 MB recommended for video editing)
Hard Drive	Minimum 800 MB free spaces for creating a CD image file;
	Minimum 10 GB free spaces for creating a DVD video image file
Interface	USB2.0 (A second USB2.0 port maybe needed for additional power!
	See Installation Section for detail)







## INSTALLATION

Installing Tray-Load / Slot-Load Type Drives:

- 1. Power on the computer.
- 2. Plug the mini-B type connector on the USB data cable to the back of the drive



- **3.** Connect the Type-A connector to an available USB port on the computer.
- 4. Check the LED power indicator, "Blue" LED indicate sufficient power for the drive, or "Red" indicate insufficient power



#### 5. If LED is "Red",

- a) If your drive comes with a Y-type cable, simply plug the secondary connector into another USB port on the computer for additional power
- b) If your drive has an Auxiliary Power Cable, simply remove the cap on end of main DATA cable connector, insert the mini-B plug, then connect the other end (Type A) to another USB port.

Note: If two ports are required, please DO NOT unplug either of the two connectors.

Installing Top-Load Type Drives:

- 1. Power on the computer.
- 2. Plug the mini-B type connector on the USB Cable to the back of the drive



**3.** Connect the Type-A connector to an available USB port on the computer.



#### **OPERATION**

## Using the Drive and Installing Software

#### **USB Device:**

When the drive is plugged into the computer for the first time, Windows Operating Systems will show a message about new device detected, and will install drivers automatically. Once drivers are installed, there will be a message shown: "Your device is ready to use", and you can start using the drive.

#### To use the drive:

As a CD-ROM drive: Most Windows Operating Systems (Windows 2000, Windows XP, Windows Vista and Window 7) supply a generic CD-ROM device driver that lets the DVD writer function as a standard CD-ROM drive as soon as it's installed. If you're using one of these operating systems, you do not need to install additional software to read or play CDs.

**As a DVD-ROM drive:** The same operating systems also let the DVD writer function as a DVD-ROM drive as soon as it's installed. If you're using one of these operating systems, you do not need to install additional software to read DVDs, however you will need special software to playback DVD video titles. Please install the bundle software application.

As a CD or DVD writer: To write to CD or DVD media (recordable or rewritable), you need to install additional utility software such as program included on the software disc bundled with the drive. Please install these application software for mastering disc, backing up files, capturing audio, and more.

### To Install Software:

Insert bundled utility software disc into the drive, the follow the on screen graphic user interface (GUI) screen to install required programs. If the installation program doesn't start by itself, open "My Computer" screen, double-click to enter the location where software CD is loaded, and manually start installation process by double-click on "setup" icon.









## **RECORDING & PLAYING CDS AND DVDS**

### **Recording CDs & DVDs**

To record CDs and DVDs, please make sure that you have installed the bundled utility software or other utilities.

Once software is installed, launch the utility, and follow the software instruction on procedures to record CDs and DVDs

#### **Playing DVDs**

To play DVD Video contents from this drive, you must have DVD playback software installed on your PC such as the one included in the bundled software.

Once software is installed, launch the utility, and follow the software instructions to enjoy DVD Video contents

#### Playing DVD Movie with Region Code:

Commercial Movie DVDs are encoded with Region Code, so it can only be distributed and played in a certain regions. The drive must be set to the same region code to play these discs.

The DVD write is shipped without a preset region code. Instead, the first time a Movie disc with region setting is inserted into the drive; there will be a pop-up window prompt user to set the proper region code. This action will only happen once, unless movie disc with different region code is detected.

If you insert a movie disc with a different region code, a pop-up window will prompt user to confirm the region code change. If you do not accept the code change, the new title will not play on this drive. If you do accept the change, the drive's region code will be set to the new code, and you will need to switch back to old code if you want to play those titles.

NOTE: You may change the drive's region code up to 5 times only. After that, you will not be able to change your drive's code setting. (Your DVD playback software will warn you if you approach the 5-change limit.)

#### About Software & Manuals

The detailed user's manual for the recording and playback software is automatically installed on your computer when you install the software.

# ENGLISH LIGHTSCRIBE GUIDE LightScribe is a direct disc label technology that allows user to create silk screen like graphic labels on the disc. It is as simple as flip and burn. Check your drive's specifications to ensure it support LightScribe! ibe scribe DISC LABELING DIRECT DISC LABELING Figure: LightScribe Logos LightScribe Requirement: To label your CDs and DVDs with LightScribe labeling, you need three components: A LightScribe-enabled drive • • LightScribe labeling software (included with the bundled utility software) • LightScribe media (available where computers are sold) You can label your LightScribe disc before or after you burn the data side, and you can even label a number of discs in succession, whether or not they have data on them. The important thing to remember is to always insert your LightScribe disc label side down when burning your LightScribe. 18

## CREATING AND BURNING LIGHTSCRIBE LABELS

1. Launch the LightScribe labeling software, select Lightscribe as labeling option.

- 2. Create your label design.
  - You can choose to create a label with text and/or graphics, and you can choose the area of the disc in which your label will be inscribed from a simple band of text ("title only") to a complete design that covers the entire disc ("full label").
  - Experiment with text, fonts, ready-made backgrounds, your own photos and other graphics to design the label that best suits your style. (For ideas and advice, visit www.lightscribe.com/labeltips)
- **3.** When your design is ready, insert a blank LightScribe disc into the drive label side down.
- 4. Select the Preview option to see how your design will look as a LightScribe label. Previewing your design lets you determine whether the design elements are placed where you want them, and it shows you what the grayscale design will look like on disc.
- 5. Select the Print option to send the label design to disc. When you print your design to disc, you can choose from three quality modes: draft, normal, or best. "Draft" is the fastest printing mode, and the resulting design provides a lower level of contrast; "best" provides the highest contrast and darkest design areas, and the burning process takes longer. The following table shows a rough estimation of the expected print times.

Setting	Title only	Title & content listing	Full label (with graphics)
Best	<4 min.	<9 min.	<36 min.
Normal	<3 min.	<7 min.	<28 min.
Draft	<2 min.	<4 min.	<20 min.

6. When your label is finished, the drive will automatically eject your disc.



and legal requirements prevent publication of more specific information at this time.

# TROUBLESHOOTING

If you have trouble during installation or use of your DVD writer, please refer to the following information.

## **Read Problems**

Symptom	Possible Cause	Solution	
No Action	No power	<ul> <li>Check all USB ports on the computer</li> <li>Connect auxiliary power cord</li> <li>Ensure USB port on the computer is working properly</li> </ul>	
DVD writer can not be recognized	USB cable not properly connected	<ul> <li>Ensure USB cord is plugged in securely.</li> <li>Check the computer to see if USB port is enabled.</li> <li>Try a different USB port</li> </ul>	
Excessive noise when reading a disc	Unbalanced disc loaded Sticker or label attached to the surface	<ul> <li>Replace the disc with another.</li> <li>Detach the sticker/label carefully, ensuring that you don't scratch the disc.</li> </ul>	
Cannot open the tray (Eject)	Drive locked by software	<ul> <li>Wait until the software activity is finished; or</li> <li>Stop the software activity and then press eject.</li> </ul>	
	Disc set incorrectly in tray	• Turn off power to the drive, then use the emergency eject feature to open the tray.	
Cannot read a previous session of a CD-RW disc that has been	"Load Contents" or "Import Session" was not selected during write process	<ul> <li>Make sure you select "import previous sessions" when adding new data to the disc.</li> </ul>	
written to at least twice	Defective or damaged disc	<ul> <li>Always use high-quality media.</li> <li>Always handle discs with care and keep them clean. Deep scratches, fingerprints, or other contaminants on a disc's surface can cause read errors.</li> </ul>	
	Disc inserted upside down	• Remove the disc from the tray and reinsert it label side up.	

	Possible Cause	Solution
Cannot write to disc	Authoring software used does not support your DVD writer	<ul> <li>Use the bundled software provided with the DVD writer.</li> <li>When other software is used, contact the software supplier (or check the appropriate website) to ensure that it supports this DVD writer.</li> </ul>
	Disc inserted upside down	Reinsert the disc label side up.
	Insufficient hard disk capacity	<ul> <li>Ensure that 1.2 to 2 times the capacity of the write data is available on hard disk. (Required capacity may vary according write method.)</li> </ul>
	No power	Ensure that the power cord is connected securely (at all connections)
	IDE cable not properly connected	<ul> <li>Ensure that the IDE cable and connectors are not damaged (check the pins carefully), and both sides are connected.</li> </ul>
Writing errors occur	Defective or damaged disc	<ul> <li>Always use high-quality media.</li> <li>Always handle discs with care and keep them clean. Deep scratches, fingerprints or other contaminants on a disc's surface can cause errors.</li> </ul>
	Insufficient hard disk capacity	<ul> <li>Ensure that 1.2 to 2 times the capacity of the write data is available on hard disk. (Required capacity may vary according write method.)</li> </ul>
Cannot write at highest speed	DVD/CD media not compatible with high speed	• Use media rated for the highest speed your drive can write.
	Defective or damaged disc	<ul> <li>Always use high-quality media.</li> <li>Always handle discs with care and keep them clean. Deep scratches, fingerprints or other contaminants on a disc's surface can slow down write speed.</li> </ul>
		or other contaminants on a disc's surf can slow down write speed.

# FCC COMPLIANCE STATEMENT

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 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.

FCC Caution: To assure continued compliance, (example – use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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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