

Installation

Hardware Installation

NOTES

- Make sure you have a personal computer with any open USB port before connecting the drive to your computer.
- Power for all device should be turn off before attaching the cables.

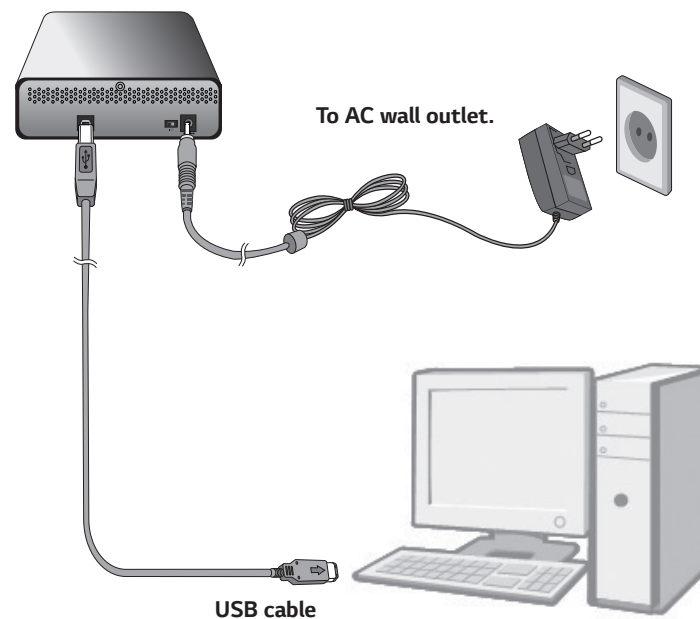
Connecting to computer

Connect the drive to the computer as shown in figure.

- 1 Connect the USB cable to the External Writer.
- 2 Connect the other end of the USB cable to your computer.
- 3 Connect the AC adapter plug to the power connector at the rear of the drive. Attach the AC adapter to the AC wall outlet.
- 4 Make sure the power switch is turned on.
When the computer is ready, confirm that the drive is detected.
And then, insert the supplied software CD into the External Writer and install the software.

NOTES

- Please do not connect the AC adapter and USB cable by any means other than specified above.
- "Use only power supplies listed in the user instructions" or "For applicable power supplies see user instructions".
Adapter information
 - Model name: WA-36A12S
 - Manufacturer: Asian Power devices Inc.
 - Rating: 36 W (3.0 A, 12 V)
- The appliance is not intended for use by young children or infirm persons without supervision.
Young children should be supervised to ensure that they do not play with appliance.
- If the appliance is supplied from a cord extension set or an electrical portable outlet device, the cord extension set on electrical portable outlet device must be positioned so that it is not subject to splashing or ingress of moisture.
- Please pay attention to handling Electrostatic Sensitive Devices, you may use anti-static products such as wrist straps, heel straps, mats to protect your body from electrostatic.



Location and function of controls

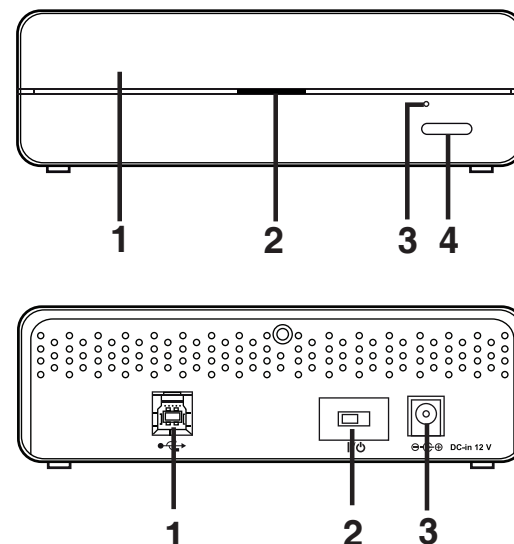
This following is the general figure of the design of the drive.
The drive's appearance and specifications may change without prior notice.

Front View

1. Disc Tray
2. Drive activity indicator (LED)
3. Emergency Eject Hole
4. Open/Close button

Rear View

1. **USB Connector**
This connector is used to connect to the USB cable.
2. **Power Switch**
Use this switch to turn the drive on and off.
3. **Power Connector**
This connector is used to connect to the AC Power adapter cord.



Loading and ejecting a disc

Remember - AC adapter must be connected.
Make sure the power is turned on.

Loading a disc

1. Touch the Eject Button to open the Disc tray.
2. Load a disc. (Label facing up.)
3. Close the Disc tray.

Ejecting a disc

1. Touch the Open/Close Button to open the Disc tray.
2. Removing the disc.
3. Close the Disc tray after removing the disc.

Emergency Eject

This drive has a feature that allows the CD to be ejected manually in case of a drive failure or a power outage.

NOTE: Don't use this feature except in an emergency.

- 1) Turn the power switch OFF.
- 2) Poke a fine-tipped object (such as a straightened heavy duty paper clip) into the small hole above the eject button. The front door will pop open and the disk tray will come partway out.
- 3) Pull the front door to open it all the way, then grip the disc tray between thumb and forefinger and gently pull it straight out.



NOTE: Use this feature for an emergency purpose only. Using it excessively will cause malfunction.

* If you cannot get a good grip on the disc tray with your fingers, use a steel binder clip or spring clamp to pull it out.



Quick Set-up Guide

External Blu-ray / DVD Writer

BE16

To install of your product, please read this guide manual carefully and completely.

System requirements

Operating Environment

This unit can be operated in the system environment explained here.

System requirements	• CPU : Intel Core 2 Duo E6750 (2.66 GHz), AMD Phenom 9450 (2.10 GHz) or above. • O/S : Windows 10/ 8.1/ 8/ 7/ Vista(32 bit, 64 bit)/ XP SP3. • RAM : 2 GB or more • HDD : Needed free space for Blu-ray Disc authoring (BD-R SL/DL: 60 GB, BD-R/RE XL (3 Layer): 100 GB, BD-R XL (4 Layer): 128 GB)
Interface	USB 2.0 or 3.0
Recommended media manufacturer	- BD-R SL : Sony. - BD-R DL : Panasonic. - BD-R XL (3 Layer)/ XL (4 Layer) : Mitsubishi Kagaku Media / Sony. - BD-R SL LTH : Taiyo Yuden. - BD-RE SL : Mitsubishi Kagaku Media, Verbatim, Sony. - BD-RE DL/XL (3 Layer) : Mitsubishi Kagaku Media / Sony. - DVD-R : Mitsubishi Kagaku Media. - DVD-RW : JVC, Mitsubishi Kagaku Media, Verbatim. - DVD+R : Mitsubishi Kagaku Media. - DVD+RW : Mitsubishi Kagaku Media, Verbatim. - DVD±R DL : Mitsubishi Kagaku Media. - DVD-RAM : Panasonic. - M-Disc (DVD+R SL, BD-R SL) : Millenniata - CD-R : Mitsubishi Kagaku Media, Verbatim, Taiyo Yuden. - CD-RW : LG, Mitsubishi Kagaku Media, Verbatim.

* Initial installation of Tool CD requires internet access for Windows Vista users.

* Compatibility problem in write/read function may occur with media depending on the media manufacturing quality.

* There may be some cases when motion picture playback is not smooth depending on bit rate.

* Please visit <http://www.m-disc.com> to learn more about the M-DISC™.



MFL67902189

Playing Blu-ray Movies *NOTICE*

	Graphic Card			Monitor		
	Driver	Interface	HDCP *2	Interface	HDCP	Resolution
Digital	AACS *1 Compliant	DVI or HDMI	Compliant	DVI or HDMI	Compliant	1024x768 or more (Recommended : 1920x1080)

Due to copyright protection features, certain requirements must be met in order to playback BD movies on a computer. When using digital video connections, the monitor and graphics card must support High-bandwidth Digital Content Protection (HDCP). Note that most monitors and graphics cards currently don't support HDCP. But, most High Definition TVs and multimedia monitors do support HDCP. Refer to the PC or graphic card maker's web site to see if your card supports HDCP. Some video cards that currently support HDCP:

- Blu-ray Disc playback: Intel G45, ATI Radeon HD 2400, NVIDIA Geforce 7600GT or above

- 3D playback: Intel G45, ATI Radeon HD 2400, NVIDIA Geforce 8800GT or above

*When using ATI Radeon™ HD 1000 Series Graphic Card, some BLURAY movie title can not be played on Windows 7 normally. It caused by giving up supporting the device driver of this Graphic Card by ATI Radeon™. For more information, Please contact to customer service center or website of ATI Radeon™.

*1 Graphic card driver shall meet AACS compliance criteria. Please consult your graphics card vendor for proper driver solution.

*2 HDCP (High Bandwidth Digital Content Protection): Required to view pre-recorded Blu-ray Discs which are copy protected.

Specifications

General	Supported Discs*1		BD-ROM (SL/DL), BD-R (SL/DL/TL/QL), BD-R LTH, BD-RE*2 (SL/DL/TL), DVD-ROM (SL/DL), DVD-R (SL/DL), DVD-RW, DVD-RAM, M-DISC (DVD+R SL, BD-R SL), DVD+R (SL/DL), DVD+RW, CD-ROM Mode-1, Mode-2 data disc, CD-ROM XA, CD-I, Photo-CD Multi-Session, Video CD, CD-Audio Disc, Mixed mode CD-ROM disc (data and audio), CD-Extra, CD-Text, CD-R, CD-RW	
	Interface		USB 2.0 and USB 3.0	
Write/Read speed*3	Media		Write	Read
	BD-ROM (SL/DL)	USB 3.0	-	12x/ 8x max.
	BD-R SL	USB 2.0	-	6x max.
		USB 3.0	2x, 4x, 6x, 8x, 10x, 12x, 16x	12x max.
	BD-R DL	USB 2.0	2x, 4x, 6x	6x max.
		USB 3.0	2x, 4x, 6x, 8x, 10x, 12x	8x max.
	BD-R TL	USB 2.0	2x, 4x, 6x	6x max.
		USB 3.0	2x, 4x, 6x, 8x	6x max.
	BD-R QL	USB 2.0	2x, 4x, 6x	6x max.
		USB 3.0	2x, 4x, 6x, 8x	8x max.
	BD-R SL LTH	USB 2.0	2x, 4x, 6x	6x max.
		USB 3.0	4x	12x max.
	BD-R SL (M-DISC)	USB 2.0	4x	6x max.
		USB 3.0	2x	10x/ 6x max.
	BD-RE (SL/DL)	USB 2.0	2x	6x max.
		USB 3.0	2x	4x max.
	BD-RE TL	USB 2.0	2x	4x max.
		USB 3.0	2x	4x max.
	DVD-ROM (SL/DL)	USB 2.0	-	16x/ 12x max.
		USB 3.0	2x, 4x, 8x, 16x/ 4x, 8x	16x/ 12x max.
	DVD-R (SL/DL)	USB 2.0	2x, 4x, 6x	12x max.
		USB 3.0	2x, 4x, 6x	12x max.
	DVD-RW	USB 2.0	2x, 4x, 6x	12x max.
		USB 3.0	2x, 4x, 6x	12x max.
	DVD-RAM	USB 2.0	2x, 3x, 5x	5x max.
		USB 3.0	4x, 8x, 16x/ 2.4x 4x, 8x	16x/ 12x max.
	DVD+R (SL/DL)	USB 2.0	4x	12x max.
		USB 3.0	4x	12x max.
	DVD+R SL(M-DISC)	USB 2.0	4x	12x max.
		USB 3.0	4x	12x max.
	DVD+RW	USB 2.0	4x, 6x, 8x	12x max.
		USB 3.0	8x, 16x, 24x, 32x, 40x, 48x	48x max.
	CD-R	USB 2.0	8x, 16x, 24x, 32x, 40x, 48x	48x max.
		USB 3.0	8x, 16x, 24x, 32x, 40x, 48x	48x max.
	CD-RW	USB 2.0	4x, 10x, 16x, 24x	40x max.
		USB 3.0	4x, 10x, 16x, 24x	40x max.
	CD-ROM	USB 2.0	-	48x max.
		USB 3.0	-	48x max.
	CD-DA	USB 2.0	-	40x max.
		USB 3.0	-	40x max.

Performance	Data transfer rate Sustained	BD : 71.92 MB/s (16x max.) DVD : 22.16 MB/s (16x max.) CD : 7.2 MB/s (48x max.)	
	Average Access (1/3 stroke)	BD-ROM: 180 ms (Typical) DVD-ROM: 160 ms (Typical) DVD-RAM: 180 ms (Typical) CD-ROM: 150 ms (Typical)	
	Buffer capacity	4 Mbytes	
	MTBF	100,000 Power On Hours	
Environmental Level	When operating	Temperature: 5 °C to 40 °C	Humidity: 15 % to 80 %
	When not operating	Temperature: -30 °C to 60 °C	Humidity: 10 % to 90 %
Electrical	Power	DC 12 V	

*1 The disc of the cartridge type is not supported.

*2 BD-RE: The disc of version 1.0 is not supported.

*3 There might be some cases when this drive can not satisfy the best performance depending on the conditions of the disc, the drive, and the recording format.

- The maximum data transfer rate varies according to the performance capabilities of the PC.

- For the sake of periodic improvements, specifications and appearance are subject to change without notice.

- We have taken all possible measures to assure the quality of our products, but we cannot be responsible for the consequences if defect occurs.

Software

Install the appropriate CD Recording Authoring Software before using this unit.

* Please uninstall any previous CD burning software you may have loaded on your PC in order to prevent possible compatibility issues.

Once you have installed the application software, you may (if you wish) begin to reinstall previous software, taking note for errors. We recommend using the drive with the latest software as some problems encountered when using the drive can be solved by updating the software.

Worldwide corporate site : <http://www.LG.com>

Safety Instructions

- ⚠ CAUTION :** The laser used in the Writer can damage your eyes. Do not attempt to open the cover. To reduce the risk of electric shock, do not remove the cover (or back). There are no user-serviceable parts inside. Refer servicing to qualified service personnel. Use of controls or performance of procedures other than those specified herein may result in hazardous radiation exposure.

⚠ WARNING : To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

- ⚠ ATTENTION :** Le faisceau laser utilisé dans ce graveur est dangereux pour les yeux. Ne pas tenter d'ouvrir le couvercle. Ne déposer ni la façade, ni le panneau arrière (risque d'électrocution). Aucun élément interne n'est réparable par l'utilisateur. L'utilisation de commandes ainsi que l'exécution de procédures autres que celles spécifiées dans le présent guide risque de provoquer une dangereuse exposition aux radiations.

⚠ AVERTISSEMENT : Ne pas exposer ce matériel à la pluie ou à l'humidité (risques d'incendie et d'électrocution).

- ⚠ PRECAUCION :** El láser utilizado en la unidad puede dañar sus ojos. No intente abrir la tapa. Para reducir el riesgo de descarga eléctrica, no quite la tapa (ni la parte posterior). No hay piezas internas que deba mantener el usuario. El servicio de mantenimiento debe efectuarlo personal técnico cualificado. El uso de controles o la ejecución de procedimientos distintos de los especificados en este manual pueden ser causa de exposición a radiación peligrosa.

⚠ ADVERTENCIA : Para reducir el riesgo de fuego o descarga eléctrica, no exponga este aparato a la lluvia ni a la humedad.

CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT
CLASE 1	PRODUCTO LÁSER
CLASSE 1	PRODOTTO LASER

CAUTION : CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.

ADVARSEL : KLASSE 3B SYNLIIG OG USYNLIIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.

ADVARSEL : KLASSE 3B SYNLIIG OG USYNLIIG LASERSTRÅLING NÅR DEKSEL ÅPENS. UNNGÅ EKSPONERING FOR STRÅLEN.

VARNING : KLASSE 3B SYNLIIG OCH OSYNLIIG LASERSTRÅLNING NÅR DENNAL DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.

VARO! : KURSSI 3B NÄKYVÄ JA NÄKYMÄTÖN AVATTAESSA OLET ALTTIINA LASERSÄTEILYLLE. ÄLÄ KATSO SÄTEESEN.

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- The company names and product names written in this manual are trademarks or registered trademarks of the respective companies.

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 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 Authorized Service Center for help.

- **FCC WARNING**
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This product is for use only with UL listed personal computers that have installation instructions detailing user-installation of card cage accessory.

Declaration of Conformity

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.



Model : BE16NU50, BE16NU60
Responsible Party : Hitachi-LG Data Storage, Austin FA Center
Address : 11801 Stonehollow Dr. Suite 125 Austin, TX 78758
Telephone Number : (512) 832-8082

WARNING: This product contains chemicals known to the State of California to cause birth defects or other reproductive harm. *Wash hands after handling.*

CUSTOMER ASSISTANCE NUMBERS / INFORMATION D'AIDE À LA CLIENTÈLE / SERVIÇO DE ATENDIMENTO AO CONSUMIDOR

USA	Call 1-800-243-0000 and choose the appropriate prompt. (Mon. ~ Fri 10:00 am to 7:00 pm PST) http://www.lg.com/us
Canada	Access our web-site at: www.LG.ca (Service Option) or Call 1-888-LG-CANADA (542 2623) Press the appropriate menu option, have your product model & serial numbers & your postal code ready. Aller au site Internet : www.LG.ca (option service) ou téléphoner au 1,888,LG,CANADA (542.2623). Presser l'option du menu approprié, et avoir les numéros de modèle et de série et votre code postal sous la main.
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