Panasonic®

Basic Operating Instructions
Blu-ray Disc™ Player

Model No. **DP-UB820**

ULTRAHD™
Blu-ray

Thank you for purchasing this product.
Please read these instructions carefully before using this product, and save this manual for future use.

Model number suffix "EB" denotes UK model.

Precautions

WARNING

Unit

To reduce the risk of fire, electric shock or product damage,
- Do not expose this unit to rain, moisture, dripping or splashing.
- Do not place objects filled with liquids, such as vases, on this unit.
- Use the recommended accessories.
- Do not remove covers.
- Do not repair this unit by yourself. Refer servicing to qualified service personnel.
- Do not let metal objects fall inside this unit.
- Do not place heavy items on this unit.

AC mains lead

To reduce the risk of fire, electric shock or product damage,
- Ensure that the power supply voltage corresponds to the voltage printed on this unit.
- Insert the mains plug fully into the socket outlet.
- Do not pull, bend, or place heavy items on the lead.
- Do not handle the plug with wet hands.
- Hold onto the mains plug body when disconnecting the plug.
- Do not use a damaged mains plug or socket outlet.

The mains plug is the disconnecting device.
Install this unit so that the mains plug can be unplugged from the socket outlet immediately.

CAUTION

Unit
- This unit utilizes a laser. Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Do not place sources of naked flames, such as lighted candles, on this unit.
- This unit may receive radio interference caused by mobile telephones during use. If such interference occurs, please increase separation between this unit and the mobile telephone.
- This unit is intended for use in moderate climates.
- Some portions of this unit may become hot during use. When moving or cleaning this unit, disconnect the AC mains lead and wait for 3 minutes or longer.

Placement

Place this unit on an even surface.
To reduce the risk of fire, electric shock or product damage,
- Do not install or place this unit in a bookcase, built-in cabinet or in another confined space. Ensure this unit is well ventilated.
- Do not obstruct this unit's ventilation openings with newspapers, tablecloths, curtains, and similar items.
- Do not place the unit on amplifiers/receivers or equipment that may become hot. The heat can damage the unit.
- Do not expose this unit to direct sunlight, high temperatures, high humidity, and excessive vibration.

Batteries

Mishandling of batteries can cause electrolyte leakage and may cause a fire.
- Danger of explosion if battery is incorrectly replaced. Replace only with the type recommended by the manufacturer.
- When disposing of the batteries, please contact your local authorities or dealer and ask for the correct method of disposal.
- Do not mix old and new batteries or different types at the same time.
- Do not heat or expose to flame.
- Do not leave the battery(ies) in a car exposed to direct sunlight for a long period of time with doors and windows closed.
- Do not take apart or short circuit.
- Do not recharge alkaline or manganese batteries.
- Do not use batteries if the covering has been peeled off.

Remove batteries if you do not intend to use the remote control for a long period of time. Store in a cool, dark place.

Wireless LAN connection

The following limits are in place regarding the usage of this unit. You must be aware of these limits before using this unit. Panasonic will in no way be responsible for any incidental damage which may arise due to a failure to obey these limits, or to any condition of use or disuse of this unit.
- **Data transmitted and received over radio waves may be intercepted and monitored.**
- **This unit contains delicate electronic components.**
  Please use this unit in the manner in which it was intended and follow the following points:
  – Do not expose this unit to high temperatures or direct sunlight.
  – Do not bend, or subject this unit to strong impacts.
  – Keep this unit away from moisture.
 – Do not disassemble or alter this unit in any way.

Caution for AC Mains Lead

(For the AC mains plug of three pins)

For your safety, please read the following text carefully.
This appliance is supplied with a moulded three pin mains plug for your safety and convenience.
A 5-ampere fuse is fitted in this plug.
Should the fuse need to be replaced please ensure that the replacement fuse has a rating of 5-ampere and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark ⓐ or the BSI mark ♈ on the body of the fuse.
If the plug contains a removable fuse cover you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained.
A replacement fuse cover can be purchased from your local dealer.
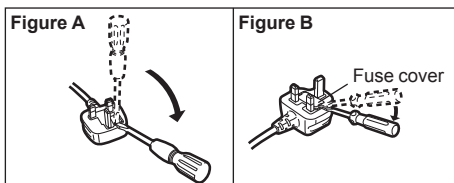
Before use

Remove the connector cover.

How to replace the fuse

The location of the fuse differ according to the type of AC mains plug (figures A and B). Confirm the AC mains plug fitted and follow the instructions below.
Illustrations may differ from actual AC mains plug.

1. Open the fuse cover with a screwdriver.

Figure A	Figure B

Fuse cover

2. Replace the fuse and close or attach the fuse cover.
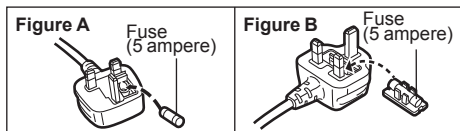
Figure A	Figure B

Fuse (5 ampere)

Table of contents

# Accessories

Check the supplied accessories before using this unit.

1   Remote control
(N2QAYB001147)

2   Batteries for remote control

1   AC mains lead
(K2CT2YY00097)

📖

● Product numbers are provided in these operating instructions correct as of April 2018. These may be subject to change.
● Do not use AC mains lead with other equipment.
● **Using the remote control**

R6/LR6, AA
(Alkaline or manganese batteries)

❷

❶
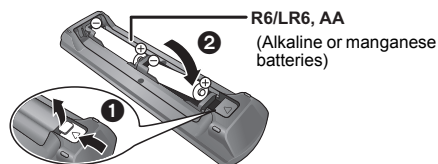
– Insert the batteries to the terminal so that it (+ and −) matches those in the remote control.

A more detailed operating instruction is available in "Operating Instructions (PDF format)". To read it, download it from the website.

http://panasonic.jp/support/global/cs/bd/oi/index.html

You will need Adobe Reader to browse or print the Operating Instructions (PDF format).

You can download and install a version of Adobe Reader that you can use with your OS from the following website. (As of April 2018)

http://www.adobe.com/products/acrobat/readstep2.html

Firmware updates

Panasonic is constantly improving the unit's firmware to ensure that our customers are enjoying the latest technology.

Panasonic recommends updating your firmware as soon as you are notified. For details, refer to "Firmware updates" (⇨ 8).

To dispose or transfer this unit

The unit may keep the user settings information in the unit. If you discard this unit either by disposal or transfer, then follow the procedure to return all the settings to the factory presets to delete the user settings.
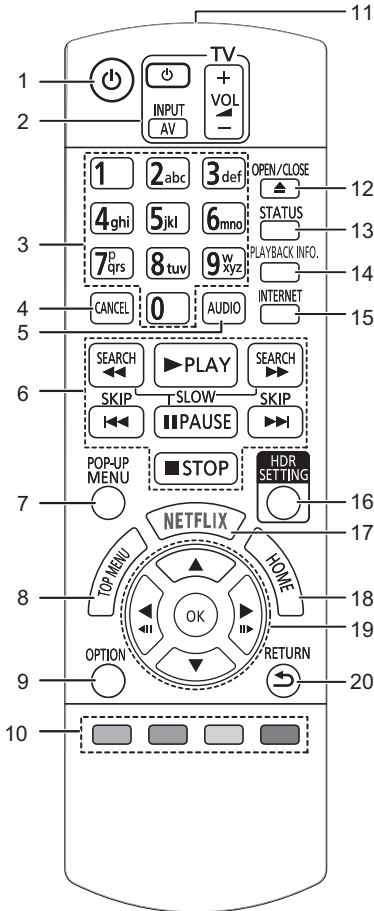
① Turn the unit off.
② Press and hold [OK], the yellow button and the blue button on the remote control at the same time for more than 5 seconds.
   – "00 RET" is displayed on the unit's display.
③ Press [►] (right) repeatedly on the remote control until "08 FIN" is displayed on the unit's display.
④ Press and hold [OK] for more than 5 seconds.

● The operation history may be recorded in the memory of this unit.
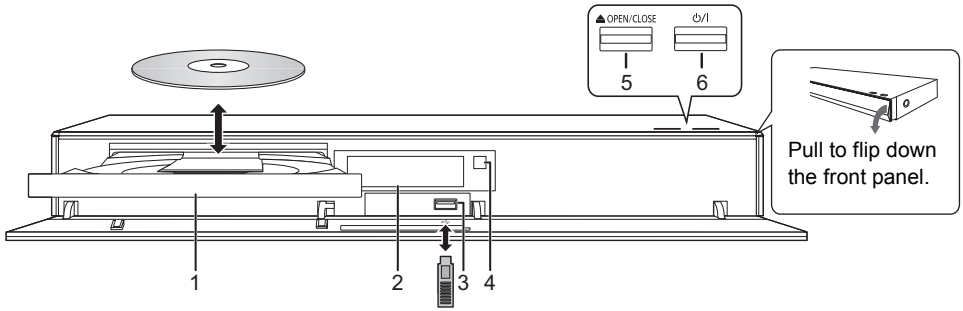
Control reference guide

■ Remote control

When other Panasonic devices respond to the remote control of the unit, change the remote control code.

1 Turn the unit on and off
2 TV operation buttons
   You can operate the Panasonic TV using this unit's remote control. Some buttons may not work depending on the TV.
3 Select title numbers, etc./Enter numbers or characters
4 Cancel
   Clear the currently selected character. (when entering a password for "Ratings" in the Setup menu, for example)
5 Change soundtrack
6 Basic playback control buttons
7 Show Pop-up menu
8 Show Top menu
9 Show Option menu
10 Coloured buttons (red, green, yellow, blue)
   Used for various purposes depending on the screen
11 Transmit the remote control signal
12 Open or close the disc tray
13 Show the status messages
14 Show "Playback Information Window"
15 Show the Home screen of the Network Service
16 Show "HDR Setting"
17 Show NETFLIX screen
18 Show HOME menu
19 [▲, ▼, ◄, ►] : Move the highlight for selection
   [OK] : Confirm the selection
   (◄❙❙)(❙❙►) : Frame-by-frame
20 Return to previous screen

■ Front

Pull to flip down the front panel.

1	Disc tray
2	Display
3	USB port ($=$ DC 5 V 500 mA) This port supports USB 2.0 High Speed.
4	Remote control signal sensor Distance: Within approx. 7 m Angle: Approx. 20° up and down, 30° left and right

5 Open or close the disc tray

6 **Standby/on switch ($\circlearrowleft$/I)**
Press to switch the unit from on to standby mode or vice versa. In standby mode, the unit is still consuming a small amount of power.
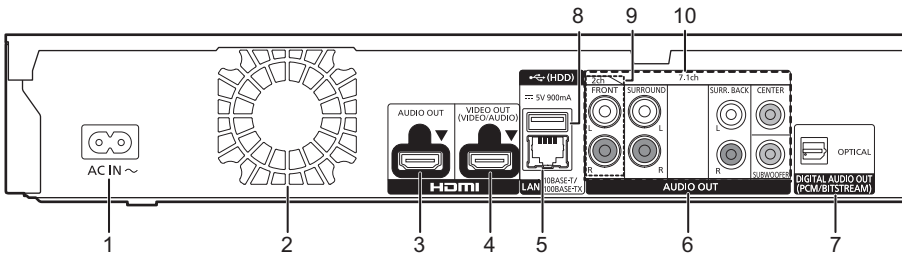
CAUTION
Do not place objects in front of the unit. The disc tray may collide with objects when it is opened, and this may cause malfunction.

- When inserting a media item, ensure that it is facing the correct way, which is the right side facing up.
- If you connect a Panasonic product with a USB connection cable, the setup screen may be displayed on the connected equipment. For details, refer to the instructions for the connected equipment.

■ Rear

1	AC IN ($\sim$) terminal
2	Cooling fan
3	HDMI AUDIO OUT terminal
4	HDMI VIDEO OUT terminal
5	LAN port
6	Analogue AUDIO OUT terminals
7	DIGITAL AUDIO OUT terminal (OPTICAL terminal)

8 USB port (HDD) ($=$ DC 5 V 900 mA)
This port supports USB 3.0 Super-Speed.
9 2ch AUDIO OUT terminals
10 7.1ch AUDIO OUT terminals

▯ Class II equipment (The construction of the product is double-insulated.)

Quick Start Guide

STEP 1 : Connecting to a TV

To a household mains socket

AC mains lead (supplied)

HDMI cable (18 Gbps)

HDMI IN
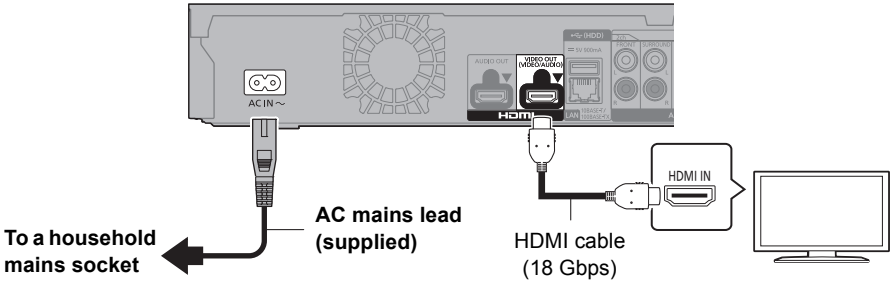
- To enjoy 4K output, you need to connect this unit to a 4K compatible TV.
- To enjoy images in 4K (50p/60p), you need an HDMI cable that supports 18 Gbps.
  When outputting 1080p or 24p (4K) signal, please use HDMI cables 5.0 meters or less.
  It is recommended that you use Panasonic's HDMI cable.
- **If you connect this unit to a 4K-compatible TV and perform "Easy Settings", 4K (50p/60p) will be automatically selected.**
- To view Ultra HD Blu-ray content in 4K/HDR format, connect to the HDMI terminal of a device that supports HDCP2.2, 4K (50p/60p) 4:4:4, and HDR signals that meet Ultra HD Blu-ray standards.
- This unit consumes a small amount of AC power (⇨ 8) even when turned off in standby mode. For the purpose of energy conservation, the unit should be disconnected if you will not be using it for extended period of time.

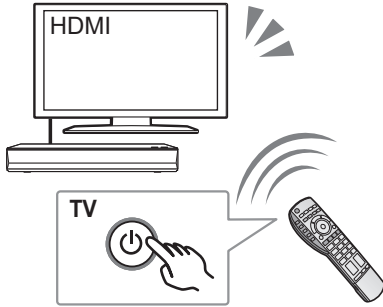## STEP 2 : Connecting to the network

■ Wireless LAN connection

Wireless router, etc.

Internet

■ LAN cable connection

LAN Cable

Broadband router, etc.

Internet
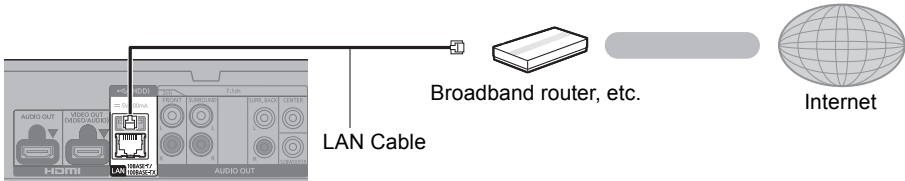
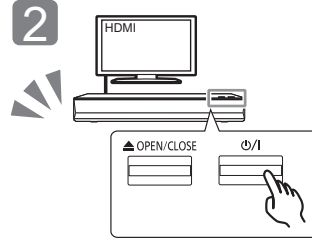Use category 5 or above straight LAN cables (STP) when connecting to peripheral devices.

STEP 3 : Settings
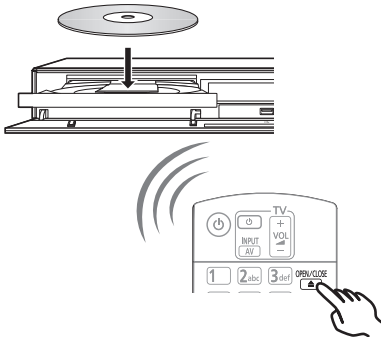

Turn on the TV and select the appropriate video input.

Press [⏻/I].
Follow the on-screen instructions to continue with the settings.

STEP 4 : Playing a disc

Insert the disc.
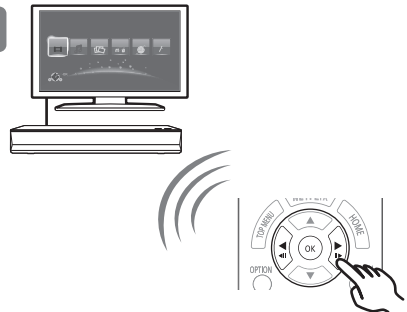
Select the item to play and press [OK].

Operating during playback

Following functions may not work depending on the media and contents.

Stop	Press [■STOP].	The stopping point is memorized. **Resume play function** Press [►PLAY] to restart from this point. ● The point is cleared if the media is removed.
Pause	Press [❚❚PAUSE].	Press [❚❚PAUSE] again or [►PLAY] to restart play.
Search	While playing, press [SEARCH◄◄] or [SEARCH►►].	The speed increases up to 5 steps. ● Press [►PLAY] to revert to normal playback speed.
Slow motion	While paused, press [SEARCH◄◄] or [SEARCH►►].	
Skip	While playing or paused, press [I◄◄] or [►►I].	Skip to the title, chapter or track.

Playable media

Ultra HD Blu-ray: Video
BD-Video: Video
BD-RE/BD-RE DL: Video, JPEG, MPO
BD-R/BD-R DL: Video, MKV, JPEG, MPO
DVD-Video: Video
DVD-R/DVD-R DL: Video, AVCHD, MKV, JPEG, MPO, AAC, AIFF, ALAC, DSD (DFF, DSF), FLAC, MP3, WAV, WMA
DVD-RW/+R/+RW/+R DL: Video, AVCHD
Music CD: Music [CD-DA]
CD-R/CD-RW: MKV, JPEG, MPO, AAC, AIFF, ALAC, FLAC, MP3, Music [CD-DA], WAV, WMA
USB devices (up to 4 TB): AVCHD, AVCHD 3D, MKV, MP4, MPEG2, JPEG, MPO, AAC, AIFF, ALAC, DSD (DFF, DSF), FLAC, MP3, WAV, WMA

■ Region management information

The unit can play back BD-Video/DVD-Video discs of the following regions codes, including "**ALL**":

Example: BD-Video   DVD-Video

Specifications

Power supply	AC 220 V to 240 V, 50 Hz
Power consumption	Approx. 32 W
Power consumption in networked standby mode	Approx. 1 W (Quick Start: Off, Networked Standby: On)
Power consumption in standby mode	Approx. 0.3 W (Quick Start: Off, Networked Standby: Off)
Dimensions (W×H×D) Including the projecting parts	430 mm×62 mm×208 mm
Mass	Approx. 2.2 kg

● Specifications are subject to change without notice.

Firmware updates

Occasionally, Panasonic may release updated firmware for this unit that may add or improve the way a feature operates. These updates are available free of charge.

This unit is capable of checking the firmware automatically when connected to the Internet via a broadband connection.*¹
When a new firmware version is available, the following message is displayed.

*2

Select "Yes" to start downloading the firmware. When the firmware update starts after the downloading is finished, a black screen is displayed.

You cannot operate the unit until the update is complete. Don't remove the AC mains lead during the update. Removing the AC mains lead while the update is in progress may damage the unit.
After the firmware is installed, unit will restart and the following screen will be displayed.

*2

The firmware has been updated.
Current Version: x.xx

📖
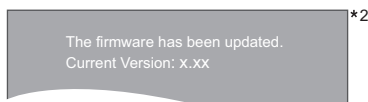
● **You can also download the latest firmware from the following website and store it to a USB device to update the firmware.**
http://panasonic.jp/support/global/cs/
(This site is in English only.)
● **To show the firmware version on this unit;**
[HOME] ⇨ "Setup" ⇨ "Player Settings" ⇨ "System" ⇨ "System Information" ⇨ "Firmware Version Information"
● **Downloading will require several minutes. It may take longer or may not work properly depending on the connection environment.**

*¹ You must agree to the terms of use for the Internet function and the privacy policy.
[HOME] ⇨ "Setup" ⇨ "Player Settings" ⇨ "Network" ⇨ "Legal Notices"
*² "X.XX" represents the firmware version number.

Licenses

This product uses Cinavia technology to limit the use of unauthorized copies of some commercially-produced film and videos and their soundtracks. For details, refer to the operating instructions (PDF format).

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See http://www.mpegla.com
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See http://www.mpegla.com

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Please refer to the detailed terms and conditions thereof shown in the Player Settings menu.
At least three (3) years from delivery of this product, Panasonic will give to any third party who contacts us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL V2.0, LGPL V2.1 or the other licenses with the obligation to do so, as well as the respective copyright notice thereof.
Contact Information: oss-cd-request@gg.jp.panasonic.com
The source code and the copyright notice are also available for free in our website below.
https://panasonic.net/cns/oss/

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This product is protected by certain intellectual property rights of Microsoft Corporation and third parties. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary and third parties.
(2) MS/PlayReady/Final Product Labeling
This product contains technology subject to certain intellectual property rights of Microsoft. Use or distribution of this technology outside of this product is prohibited without the appropriate license(s) from Microsoft.
(3) MS/PlayReady/End User Notices
Content owners use Microsoft PlayReady™ content access technology to protect their intellectual property, including copyrighted content. This device uses PlayReady technology to access PlayReady-protected content and/or WMDRM-protected content. If the device fails to properly enforce restrictions on content usage, content owners may require Microsoft to revoke the device's ability to consume PlayReady-protected content. Revocation should not affect unprotected content or content protected by other content access technologies. Content owners may require you to upgrade PlayReady to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.
(4) Vorbis, FLAC, WPA Supplicant
The software licenses are displayed when "Software Licence" in the Setup menu is selected.*
* [HOME] ⇨ "Setup" ⇨ "Player Settings" ⇨ "System" ⇨ "System Information"

Declaration of Conformity (DoC)

Hereby, "*Panasonic Corporation*" declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

Customers can download a copy of the original DoC to our RE products from our DoC server:

http://www.ptc.panasonic.eu

Contact to Authorised Representative:

Panasonic Marketing Europe GmbH, Panasonic Testing Centre, Winsbergring 15, 22525 Hamburg, Germany

5.15 - 5.35 GHz band is restricted to indoor operations only in the following countries.

AT	BE	BG	CZ	DK	EE	FR	DE	IS	IE	IT
EL	ES	CY	LV	LI	LT	LU	HU	MT	NL	NO
PL	PT	RO	SI	SK	TR	FI	SE	CH	UK	HR

Type of wireless	Frequency band	Maximum power (dBm e.i.r.p.)
WLAN	2412-2472 MHz 5180-5320 MHz 5500-5700 MHz	20 dBm 23 dBm 23 dBm

Disposal of Old Equipment and Batteries

Only for European Union and countries with recycling systems

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries must not be mixed with general household waste.

For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points in accordance with your national legislation.

By disposing of them correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment.

For more information about collection and recycling, please contact your local municipality.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

(Note for the battery symbol (bottom symbol)):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

Sales and Support Information

Customer Communications Centre
- For customers within the UK: 0344 844 3899
- For customers within Ireland: 01 289 8333
- Monday–Friday 9:00 am – 5:00 pm (Excluding public holidays).
- For further support on your product, please visit our website:
  www.panasonic.co.uk

Direct Sales at Panasonic UK
- Order accessory and consumable items for your product with ease and confidence by phoning our Customer Communications Centre Monday–Friday 9:00 am – 5:00 pm (Excluding public holidays).
- Or go on line through our Internet Accessory ordering application at www.pas-europe.com.
- Most major credit and debit cards accepted.
- All enquiries transactions and distribution facilities are provided directly by Panasonic UK.
- It couldn't be simpler!
- Also available through our Internet is direct shopping for a wide range of finished products. Take a browse on our website for further details.

CAUTION –	VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO BEAM. FDA 21CFR/CLASS II (IIa)
CAUTION –	CLASS 2 VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. DO NOT STARE INTO THE BEAM. IEC60825-1/CLASS 2
ATTENTION –	RAYONNEMENT LASER VISIBLE ET INVISIBLE,CLASSE 2, EN CAS D'OUVERTURE. NE PAS REGARDER DANS LE FAISCEAU.
FORSIGTIG –	SYNLIG OG USYNLIG LASERSTRÅLING KLASSE 2, NÅR LÅGET ER ÅBENT. UNDGÅ AT SE LIGE IND I STRÅLEN.
VARO –	AVATTAESSA OLET ALTTIINA LUOKAN 2 NÄKYVÄÄ JA NÄKYMÄTÖNTÄ LASERSÄTEILYÄ. ÄLÄ TUIJOTA SÄTEESEEN.
VARNING –	KLASS 2 SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STIRRA EJ IN I STRÅLEN.
VORSICHT –	SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG KLASSE 2, WENN ABDECKUNG GEÖFFNET. NICHT IN DEN STRAHL BLICKEN.
注意 –	打开时有可见及不可见激光辐射。避免光束照射。
注意 –	ここを開くとクラス2の可視及び不可視レーザ放射が出る ビームをのぞき込まないこと VQL2P54-1

(Inside of product)

CLASS 1
LASER PRODUCT

(Back of product)

EU
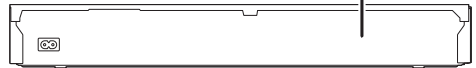
Manufactured by:	Panasonic Corporation Kadoma, Osaka, Japan
Importer for Europe:	Panasonic Marketing Europe GmbH Panasonic Testing Centre Winsbergring 15, 22525 Hamburg, Germany

Panasonic Corporation
Web Site: http://www.panasonic.com

(En)

TQBS0207

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