



ENGLISH

PORTUGUÊS

Ελληνικά

ESPAÑOL

OWNER'S MANUAL

# Portable DVD Player

Please read this manual carefully before operating your set and retain it for future reference.

## MODEL

DP650

DP650B/DP650W



MFL67007244



# 1 Safety Information

## Cautions and Warnings

**WARNING:** TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

**WARNING:** Do not install this equipment in a confined space such as a book case or similar unit.

**CAUTION:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product shall not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction have been adhered to.

### CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;

That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized service centre. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. To disconnect power from the mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.

This device is equipped with a portable battery or accumulator.

**Safe way to remove the battery or the battery from the equipment:** To remove the old battery or battery pack, follow the installation steps in reverse order than the assembly. To prevent contamination of the environment and bring on possible threat to human and animal health, the old battery or the battery put it in the appropriate container at designated collection points. Do not dispose of batteries or battery together with other waste. It is recommended that you use local, free reimbursement systems batteries and accumulators. The battery should not be exposed to excessive heat such as direct sunlight, fire or the like.



**CAUTION:** This product employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Should the unit require maintenance, contact an authorized service center. Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure. To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. **DO NOT STARE INTO BEAM.**

### CAUTION:

- The apparatus should not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, should be placed on the apparatus.
- Minimum distances around the apparatus for sufficient ventilation, no less than 5 cm.
- The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloth, curtains etc.
- No naked flame sources, such as lighted candles,

should be placed on the apparatus.

- Internal lithium battery in the DVD should not be replaced by user because of danger of explosion if battery is incorrectly replaced, and must be replaced with the same type battery by expert.
- Use the apparatus in tropical and moderate climates only.

### Notes on Copyrights

- This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering or disassembly is prohibited.
- Under the U.S. Copyright laws and Copyright laws of other countries, unauthorized recording, use, display, distribution, or revision of television programs, videotapes, DVDs, CDs and other materials may subject you to civil and/or criminal liability.

### Caution of usage in the car

- To prevent electrical shock and possible damage to your unit or vehicle, always unplug the automotive adapter from the cigarette lighter socket before you remove the plug from your unit.
- A 3 amp, 250 V fuse for protection is installed in the automotive adapter.
- While the engine is being started, disconnect the automotive adapter from the car's cigarette lighter socket.
- Do not operate your unit when the car battery is discharged. Peak current from the car generator may cause the DC fuse to blow.
- If the vehicle's supply voltage drops below approximately 10 volts, your unit may not work properly.
- Do not leave your unit in a place where the temperature exceeds 45 °C (113 °F), or the pick-up device may be damaged.

### Caution of Unit handling

- **Shipping the unit**  
Save the original packing materials and re-pack the unit with them to maximize protection.
- **Cleaning the unit**  
Clean the unit using a soft and dry cloth with a mild detergent solution, not strong solvents occurred the damage of surface.  
Do not leave the unit with rubber or plastic materials for a long period.
- **Maintaining performance of the unit**  
Maintain the cleaning status of optical pick-up lens and disc drive parts clean. If they are dirty or worn, the displayed quality could be diminished. For details, please contact your nearest authorized service center.

### Disposal of your old appliance



1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products shall be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.



LG Electronics hereby declares that this/ these product(s) is/are in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC, 2006/95/EC, and 2009/125/EC.

European representative: LG Electronics Service Europe B.V. Veluwezoom 15, 1327 AE Almere. The Netherlands (Tel : +31-(0)36-547-8888)

# Contents

## 1

### Safety Information

---

- 3 Cautions and Warnings

## 2

### Preparation

---

#### 6 Introduction

- 6 Symbols Used in this Manual
- 6 About the "Ⓢ" Symbol Display
- 6 Playable Discs
- 6 Regional Code
- 7 File compatibility
- 7 Rechargeable battery

#### 8 Main Unit

- 8 Supplied Accessories

## 3

### Installation

---

- 9 Connecting the AC Adaptor
- 9 Connecting the Automotive Adaptor
- 9 Connecting Audio and Video cable
- 9 Setup
- 9 Adjust the settings
- 10 [LANGUAGE] Menu
- 10 [DISPLAY] Menu
- 10 [AUDIO] Menu

- 10 [LOCK] Menu
- 10 [OTHERS] Menu

## 4

### Operation

---

- 11 On-Screen display
- 11 General Playback
- 12 General operation
- 12 Advanced Playback
- 12 Movie
- 13 Music
- 13 Photo

## 5

### Troubleshooting

---

- 14 Troubleshooting

## 6

### Appendix

---

- 15 Area Code List
- 16 Language code List
- 17 Specifications
- 17 Trademarks and Licenses

1

2

3

4

5

6

# 2 Preparation






2

Preparation


## Introduction

### Symbols Used in this Manual

A section whose title has one of the following symbols are applicable only to the disc represented by the symbol.

|   |                                       |
|---|---------------------------------------|
|    | DVD-Video, DVD±R/RW                   |
|    | Audio CDs                             |
|    | Movie files contained in the USB/Disc |
|   | Music files contained in the USB/Disc |
|  | Photo files                           |

### About the “” Symbol Display

“” may appear on the screen during operation and indicates that the function explained in this owner’s manual is not available on that specific media.

## Playable Discs



DVD-VIDEO (8 cm / 12 cm disc)  
Discs such as movies that can be purchased or rented.



DVD±R (8 cm / 12 cm disc)  
- Video mode and finalized only  
- Supports the dual layer disc also  
- DVD±R discs that contain Movie, Music or Photo files.



DVD-RW (8 cm / 12 cm disc)  
- VR mode, Video mode and finalized only  
- DVD-RW discs that contain Movie, Music or Photo files.



DVD+RW (8 cm / 12 cm disc)  
- Video mode and finalized only  
- DVD+RW discs that contain Movie, Music or Photo files.



Audio CD (8 cm / 12 cm disc)



CD-R/RW (8 cm / 12 cm disc)  
CD-R/RW discs that contain audio titles, Movie, Music or Photo files.

## Regional Code

This unit has a regional code printed on the rear of the unit. This unit can play only DVD disc labeled same as the rear of the unit or “ALL”.

## File compatibility

### Overall

**Available File extensions:** ".jpg", ".avi", ".divx", ".mpg", ".mpeg", ".mp3", ".wma"

- Some wav files are not supported on this player.
- The file name is limited to 45 characters.
- Depending on the size and number of the files, it may take several minutes to read the contents on the media.

**Maximum Files/Folder:** Less than 600 (total number of files and folders)

**CD-R/RW, DVD±R/RW Format:**  
ISO 9660+JOLIET

### MOVIE

**Available resolution size:**

720 x 576 (W x H) pixels

**Playable subtitle:** SubRip (.srt / .txt), SAMI (.smi), SubStation Alpha (.ssa/.txt), MicroDVD (.sub/.txt), SubViewer 2.0 (.sub/.txt), TMPlayer (.txt), DVD Subtitle System (.txt)

**Playable Codec format:** "DIVX3.xx", "DIVX4.xx", "DIVX5.xx", "DIVX6.xx" (Standard playback only), "MP43", "3IVX"

- This player does not support the file that are recorded with GMC\*1 or Qpel\*2. Those are video encoding techniques in MPEG4 standard, like DivX or XVID have.

\*1 GMC – Global Motion Compensation

\*2 Qpel – Quarter pixel

**Playable Audio format:** "Dolby Digital", "PCM", "MP3", "WMA"

**Sampling frequency:** within 32 - 48 kHz (WMA), within 8 - 48 kHz (MP3)

**Bit rate:** within 32 - 192 kbps (WMA), within 8 - 320 kbps (MP3)

## MUSIC

**Sampling frequency:** within 32 - 48 kHz (WMA), within 8 - 48 kHz (MP3)

**Bit rate:** within 8 - 320 kbps (MP3), within 32 - 192 kbps (WMA)

## PHOTO

**Recommended size:**

more than 32 x 32 x 32 bit/pixel

less than 5760 x 4608 x 32 bit/pixel

## Rechargeable battery

- The internal rechargeable battery provides you with the freedom to pass it around and play the files without the power cord.
- The internal rechargeable battery will start charging only when the unit is turned off and the AC adaptor is connected to a power outlet.
- The charging stops if you turn on the unit.
- The charging will take approximately 2 hours and 30 minutes.
- Operating time on battery: approximately 2 hours and 30 minutes. The operating time on battery may vary depending on the battery status, operational status and environment conditions, and the maximum playing time is possible up to 3 hours.
- When the remaining time of the battery power is under a few minutes, "▲ Check Battery" will blink on the screen.

# Main Unit

2 Preparation

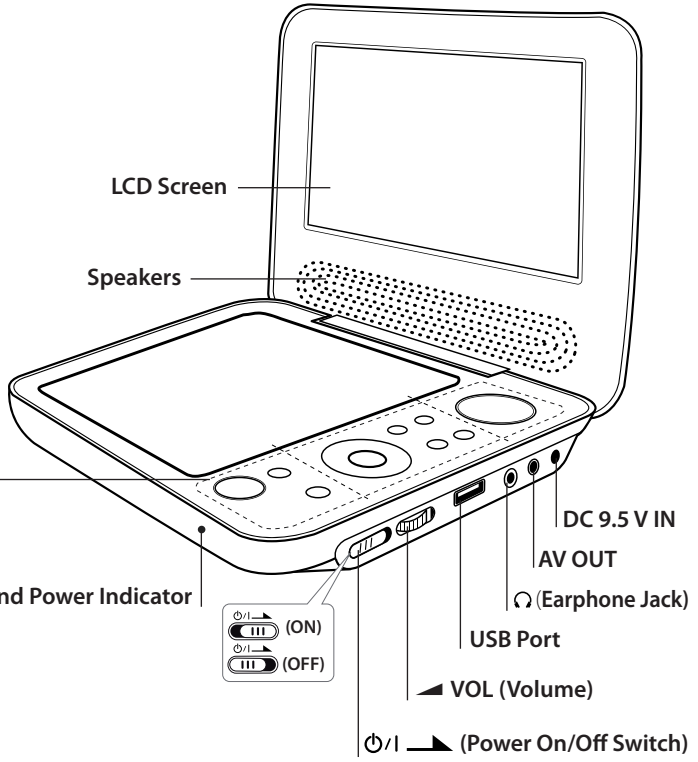
- ▶/||/◀◀/▶▶/■  
(Play/Pause/  
Previous/Next/Stop)

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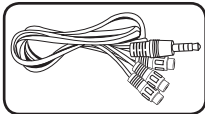
- SETUP
- DISPLAY
- TITLE
- MENU
- ▲/▼/◀/▶/ENTER  
(Up/Down/Left/Right)

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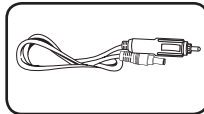
- OPTION
- Ⓜ (RETURN)
- ▲ (Open)



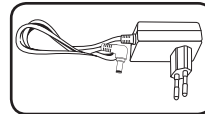
## Supplied Accessories



RCA Video/Audio Adaptor (1)



Automotive Adaptor (1)



AC Adaptor (MPA-20P) (1)

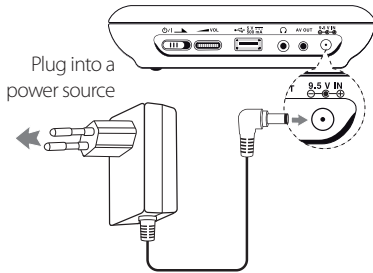
- The actual AC Adaptor may differ from the drawing.



# 3 Installation

## Connecting the AC Adaptor

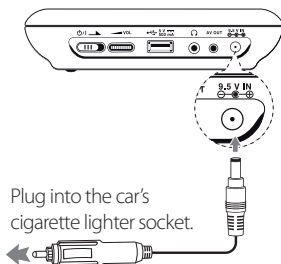
Connect the unit to the power supply with the supplied AC Adaptor.



- Contact an electrical parts distributor for assistance in selecting a suitable AC plug adaptor or AC cord set.
- This AC adaptor is manufactured by NANJING WANLIDA TECHNOLOGY CO., LTD.

## Connecting the Automotive Adaptor

Connect the unit to the Cigarette lighter socket with the supplied Automotive Adaptor.

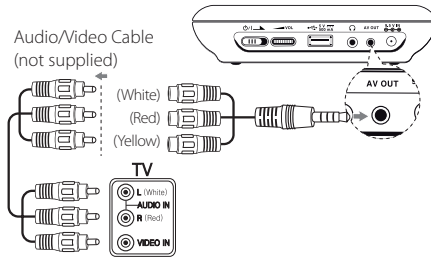


- Contact an electrical parts distributor for assistance in selecting a suitable Automotive Adaptor.

- This Automotive Adaptor is manufactured by NANJING WANLIDA TECHNOLOGY CO., LTD.

## Connecting Audio and Video cable

Connect the AV OUT on the unit to AV cable connected from TV with the supplied AV Adaptor.



## Setup

When the unit is turned-on for the first time, you have to select the desired language.

### Adjust the settings

1. Press **SETUP**.
2. Use **▲▼** to select the first setup option, and press **▶** to move to the second level.
3. Use **▲▼** to select a second setup option, and press **▶** to move to the third level.
4. Press **▲▼** to move the desired option and press **ENTER**.

## [LANGUAGE] Menu

### Menu Language/Disc Audio/Disc Subtitle/Disc Menu

Select and set the language you prefer or appropriate.

## [DISPLAY] Menu

### TV Aspect

Select and set TV aspect ratio according to your TV type and preference.

**[4:3]:** Standard TV type

**[16:9]:** Wide TV type

### Display Mode

Select and set Display Mode according to your preference. Display Mode works only when the TV Aspect mode is 4:3.

**[Letterbox]:** Display wide screen with black stripe at top and bottom on TV

**[Panscan]:** Display full screen with cut non-main scene on TV

## [AUDIO] Menu

Set the player's Audio options according to various disc output type you use.

### DRC (Dynamic Range Control)

To adjust the volume level automatically when the Audio level reaches to more than the predetermined level (Dolby Digital only).

### Vocal

To mix or not the vocal with music using the multi-channel karaoke DVD.

## [LOCK] Menu

First, you have to create a 4-digit password on Area Code to use the LOCK menu. You can create or change the password using ▲▼◀▶ and ENTER.

## Rating

To rate level from 1 (Kids) to 8 (Adult).

## Password

To create or change the password.

### If you forget the password

Remove the disc, press SETUP and OPTION buttons, and then press ENTER after input "2104" The password will be cleared.

## Area Code

To input the standardized area code refer to the Area Code List on page 15.

## [OTHERS] Menu

### REC Bitrate

To select bitrate when you record from Audio CD to USB directly. Higher bitrate gives better sound quality. For detailed recording method, see page 13.

### DivX VOD

**ABOUT DIVX VIDEO:** DivX® is a digital video format created by DivX, Inc. This is an official DivX Certified® device that plays DivX video. Visit [www.divx.com](http://www.divx.com) for more information and software tools to convert your files into DivX video.

**ABOUT DIVX VIDEO-ON-DEMAND:** This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to [vod.divx.com](http://vod.divx.com) for more information on how to complete your registration.

**[Register]:** Displays the registration code of your unit.

**[Deregister]:** Deactivate your unit and display the deactivation code.








# 4 Operation

## On-Screen display

You can display and adjust various information on-screen about the loaded disc and USB Flash Drive.

### Displaying content information on-screen **DVD** **MOVIE**

You can see the various playback information using DISPLAY and ▲▼◀▶.

|   |   |
|---|---|
| <b>Title</b><br> 1/5                         | current title number/<br>total number of titles       |
| <b>Chapter</b><br> 03/24                   | current chapter<br>number/total number<br>of chapters |
| <b>Time</b><br> C 0:17:20<br>T 2:52:18     | elapsed playing time/<br>total playback time          |
| <b>Audio</b><br> 1. ENG<br>D D D<br>2/0 CH | selected audio<br>language or channel                 |
| <b>Subtitle</b><br> 2. ENG                 | selected subtitle                                     |
| <b>Code Page</b><br> CP1252                | selected proper subtitle<br>code (MOVIE file only)    |
| <b>Angle</b><br> 1/1                       | selected angle/total<br>number of angles              |

## General Playback

### Playing Disc

1. Turn on the Power Switch.
2. Open the disc lid by pressing ▲ and insert a disc.
3. Close the disc lid.
4. Press ►/|| to play.  
DVD disc will be automatically loaded.

### Playing USB Flash Drive

1. Turn on the Power Switch.
2. Insert the USB Flash Drive to unit.
3. Press ⏪ (RETURN) to use USB Flash Drive.
4. Select the desired file.
5. Press ►/|| to play the file.



# Music ACD MUSIC

| To                                       | Do this   |
|--|---|
| <b>Search for the file Number</b>        | Press OPTION and select Number Search, and then press ENTER. Select the desired Number using ▲▼ and select OK using ►, and then press ENTER.  |
| <b>Play repeatedly</b>                   | Press OPTION during playback and select Repeat. And then, press OPTION or RETURN after selecting a repeat mode using ◀▶. (Track/All/Off)  |
| <b>Play randomly</b>                     | Press OPTION and select Random, and then select ON or OFF using ◀▶. Press OPTION or RETURN.   |
| <b>Create or delete your own program</b> | Select the desired file and press ► to move to "▶", and then press ENTER to create the music lists.<br><br>Select the undesired file and press ► to move to "✕", and then press ENTER to delete programmed music lists.<br><br>But, if you want to delete all from programmed lists, press ▼ to move to [Clear All] and then press ENTER. |
| <b>Display the file information</b>      | Press DISPLAY repeatedly to see the contained information in MP3 file, [TITLE/ARTIST/ALBUM/YEAR/COMMENT].   |
| <b>Last Scene Memory</b>                 | This unit can memorize and play the last viewed scene even if disc is inserted again after removal or unit is turned on after off with same disc. (ACD only)  |

|   |  |
|---|--|
| <b>Record the Audio CD to USB Flash Drive</b> | Insert a USB flash drive and Audio CD in the unit. Press OPTION and select [CD Recording] menu. Select a desired track using ▲▼ and press ENTER. <ul style="list-style-type: none"> <li>• [X1] or [X4] option                             <ul style="list-style-type: none"> <li>- X1: Recording to 1X speed listening to music</li> <li>- X4: Recording to 4X speed non-listening to music</li> </ul> </li> </ul> |
|---|--|

The making of unauthorized copies of copy-protected material, including computer programs, files, broadcasts and sound recordings, may be an infringement of copyrights and constitute a criminal offense. This equipment should not be used for such purposes.

**Be responsible  
Respect copyrights**

# Photo PHOTO

| To                                       | Do this  |
|--|--|
| <b>Search for the file Number</b>        | Press OPTION and select Number Search, and then press ENTER. Select the desired Number using ▲▼ and select OK using ►, and then press ENTER. |
| <b>View the slide show</b>               | Press ▲▼◀▶ to move to "▶" and press ENTER to view the slide show.  |
| <b>Adjust the slide show speed</b>       | Press ▲▼◀▶ to move to "▶" and press ◀▶ repeatedly to adjust the slide show speed.  |
| <b>Listen to music during slide show</b> | Press ▲▼◀▶ to move to "▶" and press ENTER to listen to music during slide show.  |

# 5

## Troubleshooting

### Troubleshooting

| Symptom  | Cause  | Solution  |
|--|--|---|
| No power.  | <ul style="list-style-type: none"> <li>The power cord is disconnected.</li> </ul>  | <ul style="list-style-type: none"> <li>Plug the power cord into the wall outlet securely.</li> </ul>  |
| The power is on, but the unit does not work.           | <ul style="list-style-type: none"> <li>Disc is not inserted.</li> </ul>  | <ul style="list-style-type: none"> <li>Insert a disc.</li> </ul>  |
| No picture on other connected display devices, TV etc. | <ul style="list-style-type: none"> <li>The TV is not set to receive the signal from the unit.</li> </ul>                                       | <ul style="list-style-type: none"> <li>Select the appropriate video input mode on the TV.</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The video cable is not connected securely.</li> </ul>   | <ul style="list-style-type: none"> <li>Connect the video cable securely.</li> </ul>   |
| No sound.  | <ul style="list-style-type: none"> <li>The volume is set to minimum.</li> </ul>  | <ul style="list-style-type: none"> <li>Use the volume controller to adjust the volume.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>The equipment connected with the audio cable is not set to receive the signal from the unit.</li> </ul> | <ul style="list-style-type: none"> <li>Select the correct input mode of the audio amplifier.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>The AUDIO options are set to the wrong position.</li> </ul>   | <ul style="list-style-type: none"> <li>Set the AUDIO settings to the correct position.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>The earphone jack is connected to the unit.</li> </ul>  | <ul style="list-style-type: none"> <li>Separate the earphone jack from the unit.</li> </ul>   |
| The unit does not start playback.                      | <ul style="list-style-type: none"> <li>The disc is inserted upside down.</li> </ul>  | <ul style="list-style-type: none"> <li>Ensure the disc label is upwards.</li> </ul>   |
|  | <ul style="list-style-type: none"> <li>The disc surface is dirty by Fingerprints and dust on the disc.</li> </ul>                              | <ul style="list-style-type: none"> <li>Clean the disc with a clean, soft, lint-free cloth, wipe the disc outwards from the center. (Do not use strong solvents such as alcohol, benzine, thinner, etc)</li> </ul> |
|  | <ul style="list-style-type: none"> <li>An unplayable disc is inserted.</li> </ul>  | <ul style="list-style-type: none"> <li>Insert a playable disc. (Check the disc type and regional code.)</li> </ul>  |
|  | <ul style="list-style-type: none"> <li>The rating level is set.</li> </ul>   | <ul style="list-style-type: none"> <li>Change the rating level.</li> </ul>  |

# 6

## Appendix

### Area Code List

Choose an area code from this list.

| Area           | Code | Area          | Code | Area               | Code | Area            | Code |
|----------------|------|---------------|------|--------------------|------|-----------------|------|
| Afghanistan    | AF   | Fiji          | FJ   | Monaco             | MC   | Singapore       | SG   |
| Argentina      | AR   | Finland       | FI   | Mongolia           | MN   | Slovak Republic | SK   |
| Australia      | AU   | France        | FR   | Morocco            | MA   | Slovenia        | SI   |
| Austria        | AT   | Germany       | DE   | Nepal              | NP   | South Africa    | ZA   |
| Belgium        | BE   | Great Britain | GB   | Netherlands        | NL   | South Korea     | KR   |
| Bhutan         | BT   | Greece        | GR   | Antilles           | AN   | Spain           | ES   |
| Bolivia        | BO   | Greenland     | GL   | New Zealand        | NZ   | Sri Lanka       | LK   |
| Brazil         | BR   | Hong Kong     | HK   | Nigeria            | NG   | Sweden          | SE   |
| Cambodia       | KH   | Hungary       | HU   | Norway             | NO   | Switzerland     | CH   |
| Canada         | CA   | India         | IN   | Oman               | OM   | Taiwan          | TW   |
| Chile          | CL   | Indonesia     | ID   | Pakistan           | PK   | Thailand        | TH   |
| China          | CN   | Israel        | IL   | Panama             | PA   | Turkey          | TR   |
| Colombia       | CO   | Italy         | IT   | Paraguay           | PY   | Uganda          | UG   |
| Congo          | CG   | Jamaica       | JM   | Philippines        | PH   | Ukraine         | UA   |
| Costa Rica     | CR   | Japan         | JP   | Poland             | PL   | United States   | US   |
| Croatia        | HR   | Kenya         | KE   | Portugal           | PT   | Uruguay         | UY   |
| Czech Republic | CZ   | Kuwait        | KW   | Romania            | RO   | Uzbekistan      | UZ   |
| Denmark        | DK   | Libya         | LY   | Russian Federation | RU   | Vietnam         | VN   |
| Ecuador        | EC   | Luxembourg    | LU   | Saudi Arabia       | SA   | Zimbabwe        | ZW   |
| Egypt          | EG   | Malaysia      | MY   | Senegal            | SN   |                 |      |
| El Salvador    | SV   | Maldives      | MV   |                    |      |                 |      |
| Ethiopia       | ET   | Mexico        | MX   |                    |      |                 |      |

## Language code List

Use this list to input your desired language for the following initial settings: [Disc Audio], [Disc Subtitle] and [Disc Menu].

| Language        | Code | Language         | Code | Language       | Code | Language   | Code |
|-----------------|------|------------------|------|----------------|------|------------|------|
| Afar            | 6565 | French           | 7082 | Lithuanian     | 7684 | Sindhi     | 8368 |
| Afrikaans       | 6570 | Frisian          | 7089 | Macedonian     | 7775 | Singhalese | 8373 |
| Albanian        | 8381 | Galician         | 7176 | Malagasy       | 7771 | Slovak     | 8375 |
| Ameharic        | 6577 | Georgian         | 7565 | Malay          | 7783 | Slovenian  | 8376 |
| Arabic          | 6582 | German           | 6869 | Malayalam      | 7776 | Spanish    | 6983 |
| Armenian        | 7289 | Greek            | 6976 | Maori          | 7773 | Sudanese   | 8385 |
| Assamese        | 6583 | Greenlandic      | 7576 | Marathi        | 7782 | Swahili    | 8387 |
| Aymara          | 6588 | Guarani          | 7178 | Moldavian      | 7779 | Swedish    | 8386 |
| Azerbaijani     | 6590 | Gujarati         | 7185 | Mongolian      | 7778 | Tagalog    | 8476 |
| Bashkir         | 6665 | Hausa            | 7265 | Nauru          | 7865 | Tajik      | 8471 |
| Basque          | 6985 | Hebrew           | 7387 | Nepali         | 7869 | Tamil      | 8465 |
| Bengali; Bangla | 6678 | Hindi            | 7273 | Norwegian      | 7879 | Telugu     | 8469 |
| Bhutani         | 6890 | Hungarian        | 7285 | Oriya          | 7982 | Thai       | 8472 |
| Bihari          | 6672 | Icelandic        | 7383 | Panjabi        | 8065 | Tonga      | 8479 |
| Breton          | 6682 | Indonesian       | 7378 | Pashto, Pushto | 8083 | Turkish    | 8482 |
| Bulgarian       | 6671 | Interlingua      | 7365 | Persian        | 7065 | Turkmen    | 8475 |
| Burmese         | 7789 | Irish            | 7165 | Polish         | 8076 | Twi        | 8487 |
| Byelorussian    | 6669 | Italian          | 7384 | Portuguese     | 8084 | Ukrainian  | 8575 |
| Chinese         | 9072 | Japanese         | 7465 | Quechua        | 8185 | Urdu       | 8582 |
| Croatian        | 7282 | Kannada          | 7578 | Rhaeto-Romance |      | Uzbek      | 8590 |
| Czech           | 6783 | Kashmiri         | 7583 |                | 8277 | Vietnamese | 8673 |
| Danish          | 6865 | Kazakh           | 7575 | Rumanian       | 8279 | Volapük    | 8679 |
| Dutch           | 7876 | Kirghiz          | 7589 | Russian        | 8285 | Welsh      | 6789 |
| English         | 6978 | Korean           | 7579 | Samoan         | 8377 | Wolof      | 8779 |
| Esperanto       | 6979 | Kurdish          | 7585 | Sanskrit       | 8365 | Xhosa      | 8872 |
| Estonian        | 6984 | Laothian         | 7679 | Scots Gaelic   | 7168 | Yiddish    | 7473 |
| Faroese         | 7079 | Latin            | 7665 | Serbian        | 8382 | Yoruba     | 8979 |
| Fiji            | 7074 | Latvian, Lettish | 7686 | Serbo-Croatian | 8372 | Zulu       | 9085 |
| Finnish         | 7073 | Lingala          | 7678 | Shona          | 8378 |            |      |



## Specifications

|  |   |
|--|---|
| <b>Power consumption</b>               | 12 W                                      |
| <b>Power requirements</b>              | 9.5 V $\pm$ 2 A                           |
| <b>AC adaptor requirements</b>         | 100 - 240 V $\sim$ 1 A,<br>50/60 Hz       |
| <b>Automotive Adaptor requirements</b> | 8.5 V -16 V DC                            |
| <b>Dimensions (W x H x D)</b>          | Approx.<br>(200 x 16.5 x 38.5) mm         |
| <b>Net Weight (Approx.)</b>            | 0.73 kg                                   |
| <b>Operating temperature</b>           | 0 °C to 40 °C                             |
| <b>Operating humidity</b>              | 5 % to 90 %                               |
| <b>Laser</b>                           | Semiconductor laser                       |
| <b>Signal system</b>                   | R.G.B. stripe                             |
| <b>Bus Power Supply (USB)</b>          | 5 V $\pm$ 500 mA                          |
| <b>Video/Audio Out</b>                 | $\varnothing$ 3.5 mm mini jack x 1        |
| <b>Video Out</b>                       | 1.0 V (p-p), 75 $\Omega$ , sync negative  |
| <b>Audio Out</b>                       | 1.5 Vrms (1 kHz, 0 dB)                    |
| <b>Earphone terminal</b>               | $\varnothing$ 3.5 mm stereo mini jack x 1 |

## Liquid Crystal Display

|                          |                    |
|--------------------------|--------------------|
| <b>Panel size</b>        | 17.8 cm (diagonal) |
| <b>Projection system</b> | R.G.B. stripe      |
| <b>Driving system</b>    | TFT active matrix  |
| <b>Resolution</b>        | 480 x 234 (WQVGA)  |

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