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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH DVB412. You'll find the answers to all your questions on the ZENITH DVB412 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual ZENITH DVB412**  
**User guide ZENITH DVB412**  
**Operating instructions ZENITH DVB412**  
**Instructions for use ZENITH DVB412**  
**Instruction manual ZENITH DVB412**

**Installation and Operating Guide | Warranty**

Model Number | DVB412 | DVD Player



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**Manual abstract:**

#####  
 @@@@REGULATORY INFORMATION: FCC Part 15 This product 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 when the product is operated in a residential installation. This product generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product 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 product and receiver. Connect the product 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 COMPLIANCE: The responsible party for this product's compliance is: Marketed and Distributed by LG Electronics U.S.

A., Inc., 1000 Sylvan Avenue, Englewood Cliffs, NJ Phone: 1-201-816-2000. Warning: To reduce the risk of fire or electric shock, do not expose this product to dripping or splashing water, rain, or moisture. Do not place objects filled with water such as vases, on the product.

Warning: This digital video disc player employs a laser system. Use of controls, adjustments, or the performance of procedures other than those specified herein may result in hazardous radiation exposure. Warning: To prevent direct exposure to laser beam, do not open the enclosure. Visible laser radiation when open. Warning: Never stare directly into the laser beam.

SERIAL NUMBER: You can find the serial number on the back of the unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase. Caution: Do not install this product in a confined space such as a book case or similar unit. Model No. \_\_\_\_\_ Serial No. \_\_\_\_\_ Date of

Purchase \_\_\_\_\_ 2 Contents Introduction . . .

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16 . . . .16 . . . .16 3 Introduction To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. This manual provides information on the operation and maintenance of your DVD player.

Should the unit require service, contact an authorized service location. About the Symbol Display " " may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific DVD video disc. Notes on Discs Symbol Used in this Manual The lightning flash symbol alerts you to the presence of dangerous voltage within the product enclosure that may constitute a risk of electric shock. The exclamation point alerts you to the presence of important operating and maintenance / servicing instructions.



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Indicates hazards likely to cause harm to the unit itself or other material damage. Note: Indicates special notes and operating features. Tip: Indicates tips and hints for making the task easier. A section whose title has one of the following symbols is applicable only to the disc represented by the symbol. DVD CD MP3 WMA JPEG Handling Discs Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints do not get on the surface.

Never stick paper or tape on the disc. Storing Discs After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat and never leave it in a parked car exposed to direct sunlight. Cleaning Discs Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth.

Wipe the disc from the center out. DVD and finalized DVD±R/RW Audio CDs MP3 Discs WMA Discs JPEG Discs Do not use strong solvents such as alcohol, benzine, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records. 4 Types of Playable Discs DVD (8 cm / 12 cm disc) Audio CD (8 cm / 12 cm disc) Regional code This DVD player is designed and manufactured for playback of region "1" encoded DVD software. This unit can play only DVD discs labeled "1" or "ALL". Notes on Regional Codes · Most DVD discs have a globe with one or more numbers in it clearly visible on the cover.

This number must match your DVD player's regional code or the disc cannot play. · If you try to play a DVD with a different region code from your player, the message "Check Regional Code" appears on the TV screen. Notes on Copyrights: It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyrighted material without permission. This product features the copy protection function developed by Macrovision. Copy protection signals are recorded on some discs. When recording and playing the pictures of these discs picture noise will appear. This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation.

Reverse engineering or disassembly is prohibited. 1 Introduction 5 In addition, this unit plays DVD -R, DVD +R, DVD RW, DVD +RW, Kodak Picture CDs, and CD-R / CD-RW that contains audio titles, MP3, WMA, and/or JPEG files. This indicates a product feature that is capable of playing DVD-RW discs recorded with Video Recording format. Notes: · Depending on the conditions of the recording equipment or the CD-R/RW (or DVD -R, DVD +R, DVD -RW, DVD +RW) disc itself, some CD-R/RW (or DVD -R, DVD +R, DVD -RW, DVD +RW) discs cannot be played on the unit. · Do not attach any seal or label to either side (the labeled side or the recorded side) of a disc. · Do not use irregularly shaped CDs (e.g., heartshaped or octagonal) since they may result in malfunctions. Notes on DVDs Some playback operations of DVDs may be intentionally programmed by software over setup menu. TV Control Buttons TV POWER: Turns the TV on or off.

TV PR/CH +/-: Selects TV's channel. TV VOL +/-: Adjusts TV's volume. AV: Selects the TV's source. SKIP (. / >) Go to next chapter or track.

Returns to beginning of current chapter or track or go to previous chapter or track. STOP ( x ) Stops playback. TITLE Displays title menu, if available.

RETURN Removes the setup menu. · MARKER Marks any point during playback.

· SEARCH Displays MARKER SEARCH menu. · PROGRAM Places a track on the program list. · ZOOM Enlarges video image. · REPEAT Repeat chapter, track, title all. · A-B Repeat sequence. · RANDOM Plays tracks in random order. · \* This button is not available. Remote Control Operation Point the remote control at the remote sensor and press the buttons. Do not mix old and new batteries and never mix different types of batteries such as standard, alkaline, etc. Remote Control Battery installation Detach the battery cover on the rear of the remote control, and insert two batteries AAA AAA (size AAA) with and aligned correctly.

8 Installation and Setup Setting up the Player The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. If this occurs, position the player away from the TV, VCR, or radio, or turn off the unit after removing the disc. Video and Audio Connections to Your TV Make sure the DVD player is connected directly to the TV and not to a VCR, otherwise the DVD image could be distorted by the copy protection system. Video: Connect the VIDEO OUT jack on the DVD player to the video in jack on the TV using the video cable (V). DVD Player Connections Depending on your TV and other equipment there are various ways you can connect the player. Please refer to the manuals of your TV, stereo system or other devices as necessary for additional connection information. Component Video (Color Stream®): Connect the COMPONENT VIDEO OUT/PROGRESSIVE SCAN jacks on the DVD Player to the corresponding in jacks on the TV using an Y Pb Pr cable (C). Progressive Scan (ColorStream® pro): · If your television is a high-definition or "digital ready" television, you may take advantage of the DVD Player's progressive scan output for the highest video resolution possible. · If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD Player. Notes: · Set the Progressive to "On" on the setup menu for progressive signal, see page 13.

· Set the progressive to "Off" by removing any disc from the unit and close the disc tray. see that "no disc" is displayed on the display window. Then press STOP and hold it for five seconds before releasing it. · Progressive scan does not work with the analog video connections (yellow VIDEO OUT jack). Audio Connection to Your TV: Connect the left and right AUDIO OUT jacks of the DVD Player to the audio left and right IN jacks on the TV (A) using the audio cables.

Do not connect the DVD Player's AUDIO OUT jack to the phono in jack (record deck) of your audio system. 9 Installation and Setup S-Video: Connect the S-VIDEO OUT jack on the DVD Player to the S-Video in jack on the TV using the S-Video cable (S). Audio Connection to Optional Equipment Connect the DVD player to your optional equipment for audio output. Rear of DVD player Amplifier equipped with 2-channel analog stereo or Dolby Pro Logic II / Pro Logic: Connect the left and right AUDIO OUT jacks on the DVD player to the audio left and right IN jacks on your amplifier, receiver, or stereo system, using the audio cables (A).



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Amplifier equipped with 2-channel digital stereo (PCM) or audio / video receiver equipped with a multi-channel decoder (Dolby Digital™, MPEG 2, or DTS): Connect one of the DVD Player's DIGITAL AUDIO OUT jacks (COAXIAL X) to the corresponding in jack on your amplifier. Use an optional digital (coaxial X) audio cable. Digital Multi-channel sound A digital multi-channel connection provides the best sound quality. For this you need a multi-channel audio / video receiver that supports one or more of the audio formats supported by your DVD player such as MPEG 2, Dolby Digital and DTS. Check the receiver manual and the logos on the front of the receiver. Notes: · If the audio format of the digital output does not match the capabilities of your receiver, the receiver produce a strong, distorted sound or no sound at all. · Six Channel Digital Surround Sound via a digital connection can only be obtained if your receiver is equipped with a Digital Multi-channel decoder. · To see the audio format of the current DVD in the on-screen display, press AUDIO. X A COAXIAL DIGITAL INPUT R L AUDIO INPUT Amplifier (Receiver) 10 On-Screen Display You can display the general playback status on the TV screen. Some items can be changed using the menu. To use the on-screen display: 1.

Press DISPLAY during playback. 2. Press v / V to select an item. The selected item is highlighted. 3. Press b / B to change the setting. You can also use the number buttons if appropriate (e.g. inputting the title number). For some functions, press ENTER to execute the setting.

Notes: · Some discs may not provide all of the features shown below. · If no button is pressed for 10 seconds, the on-screen display disappears. Playback Status/Restrictions Title Example: On-Screen Display during playing DVD Video Items Title Number Chapter Number Time search Audio language and Digital Audio Output mode Subtitle language Angle Sound ABC Selection Method 1/3 b / B, Numbers ENTER b / B, Numbers ENTER Numbers, ENTER b / B or AUDIO 1 / 12 0:20:09 1 ENG b / B or SUBTITLE b / B or ANGLE b/B 1/3 3D SUR Repeat title Repeat sequence Enter a Marker Marker Search menu A-B #1 : 1 / 9 123456789 Resume play from this point Action prohibited or not available 11 Installation and Setup Initial Settings By using the Setup menu, you can make various adjustments to items such as picture and sound. You can also set a language for the subtitles and the Setup menu, among other things. For details on each Setup menu item, see pages 12 to 15.

To display and exit the Menu: Press SETUP to display the menu. A second press of SETUP will take you back to initial screen. To go to the next level: Press B on the remote control. To go back to the previous level: Press b on the remote control. LANGUAGE LANGUAGE Menu Language Disc Audio Disc Subtitle Disc Menu English Original Off Original Move Select Menu Language Select a language for the Setup menu and on-screen display. Disc Audio / Subtitle / Menu DVD General Operation 1. Press SETUP. The Setup menu appears. 2. Use v / V to select the desired option then press B to move to the second level. The screen shows the current setting for the selected item, as well as alternate setting(s). 3. Use v / V to select the second desired option then press B to move to the third level. 4. Use v / V to select the desired setting then press ENTER to confirm your selection.

Some items require additional steps. 5. Press SETUP, RETURN, or PLAY to exit the Setup menu. Select the language you prefer for the audio track (disc audio), subtitles, and the disc menu. Original: Refers to the original language in which the disc was recorded. Other: To select another language, press number buttons then ENTER to enter the corresponding 4digit number according to the language code list in the reference chapter. If you enter the wrong language code, press CLEAR. 12 DISPLAY DISPLAY TV Aspect Display Mode Progressive Scan 16 : 9 Widescreen Off Notes: At this point the only video displaying is Component video. If your screen goes to a black screen, your television/display may not be compatible to progressive scan. In this case the player will time out after 10-12 seconds if no other keys are pressed.

After the unit times out, the player will automatically return to standard format, and your picture will return. Select Move 4:3: Select when a standard 4:3 TV is connected. 16:9: Select when a 16:9 wide TV is connected. Display Mode DVD 5. Pressing ENTER will set the player to Progressive scan mode.

Caution: Once the setting for progressive scan output is entered, an image will only be visible on a progressive scan compatible TV or monitor. If you set Progressive Scan to On in error, you must reset the unit. First, remove the disc in the DVD Player. Next, press STOP ( x ) again and hold it for five seconds before releasing it. The video output will be restored to the standard setting, and a picture will once again be visible on a conventional analog TV or monitor. Display Mode setting works only when the TV Aspect mode is set to "4:3". Letterbox: Displays a wide picture with bands on the upper and lower portions of the screen. Panscan: Automatically displays the wide picture on the entire screen and cuts off the portions that do not fit. Progressive Scan DVD Progressive Scan Video provides the highest quality pictures with less flickering. If you are using the Component Video jacks for connection to a TV or monitor that is compatible with a progressive scan signal, set Progressive Scan to On. To Turn ON progressive scan: Connect component out of the DVD to the input of your monitor/television, set your television or monitor to Component Input. 1. Select "Progressive Scan" on the DISPLAY menu then press B. DISPLAY TV Aspect Display Mode Progressive Scan On Off Prev. Move Enter 2.

Select "On" using the v / V buttons. 3. Press ENTER to confirm your selection. The confirm menu will appear. 13 Installation and Setup TV Aspect DVD 4. When the confirm menu appears on your screen Cancel is highlighted as default. Use the b / B buttons to highlight Enter. AUDIO Each DVD disc has a variety of audio output options. Set the player's AUDIO options according to the type of audio system you use. AUDIO Dolby Digital DTS MPEG Sample Freq.

DRC Vocal Bitstream Bitstream PCM 48 kHz On On OTHERS The Auto Play and B.L.E. settings can be changed. OTHERS Auto Play B. L.E. Off On Move Select Move Select Auto Play DVD Dolby Digital / DTS / MPEG DVD Bitstream: Select "Bitstream" if you connect the DVD Player's DIGITAL OUT jack to an amplifier or other equipment with a Dolby Digital, DTS or MPEG decoder. PCM (for Dolby Digital / MPEG): Select when connected to a two-channel digital stereo amplifier. DVDs encoded in Dolby Digital or MPEG will be automatically downmixed to two-channel PCM audio.



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*Off (for DTS): If you select "Off", the DTS signal is not output through the DIGITAL OUT jack. Sample Freq. (Frequency) DVD You can set up the DVD Player so a DVD disc automatically starts playing whenever the DVD is inserted. If Auto Play mode is set to On, this DVD player will search for title that has the longest playback time and then play back the title automatically. On: Auto Play function is active. Off: Auto Play function is not active. Note: The Auto Play function may not work for some DVDs. DVD B.L.E.*

*(Black Level Expansion) If your receiver or amplifier is NOT capable of handling 96 kHz signals, select 48 kHz. When this choice is made, this unit automatically converts any 96 kHz signals to 48 kHz so your system can decode them. If your receiver or amplifier is capable of handling 96 kHz signals, select 96 kHz. When this choice is made, this unit passes each type of signal through without any further processing. Check the documentation for your amplifier to verify its capabilities. Dynamic Range Control (DRC) DVD With the DVD format, you can hear a program's soundtrack in the most accurate and realistic presentation possible, thanks to digital audio technology. However, you may wish to compress the dynamic range of the audio output (the difference between the loudest sounds and the quietest ones). This allows you to listen to a movie at a lower volume without losing clarity of sound. Set DRC to On for this effect. Vocal DVD To select the black level of playback pictures.*

*Set your preference and monitor's ability. On: Expanded grey scale. (0 IRE cut off) Off: Standard grey scale. (7.5 IRE cut off) Set to On only when a multi-channel karaoke DVD is playing.*

*The karaoke channels on the disc mix into normal stereo sound. 14 LOCK (Parental Control) LOCK Rating Password Country Code Unlock New US SE Password (Security Code) You can enter or change password. 1. Select Password on the LOCK menu then press B. 2.*

*Follow step 2 as shown left (Rating). "Change" or "New" is highlighted. 3. Enter the new 4-digit code, then press ENTER. Input it again to verify. Move Select*

*Some movies contain scenes that may not be suitable for children to view. Many of these discs contain parental control information that applies to the complete disc or to certain scenes on the disc. Movies and scenes are rated from 1 to 8, depending on the country. Some discs offer more suitable scenes as an alternative. The parental control feature allows you to block access to scenes below the rating you input, thereby preventing your children from being able to view material you believe is unsuitable.*

*1. Select "Rating" on the LOCK menu then press B. 2. To access the Rating, Password and Country Code features, you must input the 4-digit security code you created. If you have not yet entered a security code you are prompted to do so. Input a 4-digit code and press ENTER. Enter it again and press ENTER to verify. If you make a mistake before pressing ENTER, press CLEAR. 3. Select a rating from 1 to 8 using the v / V buttons.*

*Rating 1-8: Rating one (1) has the most restrictions and rating eight (8) is the least restrictive. Unlock If you select unlock, parental control is not active and the disc plays in full. Notes: If you set a rating for the player, all disc scenes with the same rating or lower are played. Higher rated scenes are not played unless an alternate scene is available on the disc. The alternative must have the same rating or a lower one.*

*If no suitable alternative is found, playback stops. You must enter the 4-digit password or change the rating level in order to play the disc. 4. Press ENTER to confirm your rating selection, then press SETUP to exit the menu. If you forget your Security Code If you forget your security code you can clear it using the following steps: 1.*

*Press SETUP to display the Setup menu. 2. Input the 6-digit number "210499" and the security code is cleared. 3. Enter a new code as described above.*

*Country Code DVD Enter the code of the country/area whose standards were used to rate the DVD video disc, based on the list in the reference chapter. 1. Select "Country Code" on the LOCK menu then press B. 2. Follow step 2 as shown left (Rating).*

*3. Select the first character using v / V buttons. 4. Shift the cursor using B button and select the second character using v / V buttons. 5. Press ENTER to confirm your country code selection. 15 Installation and Setup Rating DVD 4. Press SETUP to exit the menu. Operation Playing a DVD Playback Setup 1.*

*Turn on the TV and select the video input source connected to the DVD player.*

*2. Turn on the audio system (if applicable) and select the input source connected to the DVD player. 3. Press OPEN/CLOSE to open the disc tray and load your chosen disc in the tray, with the playback side down. 4.*

*Press OPEN/CLOSE to close the tray. Playback starts automatically. If playback does not start, press PLAY. In some cases, the disc menu might appear instead: DVD General Features Note: Unless stated otherwise, all operations described use the remote control. Some features may also be available on the Setup menu.*

*@@@ Press TITLE or DVD MENU to return to the menu screen. @@@@ The region code for this player is 1 (one). @@@@ Press SKIP . twice briefly to step back to the previous chapter. @@@@ Press SCAN (m or M) during playback. This player memorizes last scene from the last disc that is viewed. @@@@ 2. Press SCAN (m or M) repeatedly to select the required speed. DVD; X2, X4, X16 or X100 3. @@@@ Press REPEAT during playback to select a desired repeat mode.*

*@@· Title: repeats the current title. · Off : does not play repeatedly. @@3D Surround DVD 1. Press PAUSE/STEP on the remote control during playback. Advance the picture frame-by-frame by pressing PAUSE/STEP repeatedly. 2. To exit still motion mode, press PLAY. Slow Motion DVD 1. Press PAUSE/STEP (X) during playback. The DVD player will now go into PAUSE mode.*

*2. @@@3. To exit Slow Motion mode, press PLAY (N). @@1. Press DISPLAY during playback.*

*1. Press RANDOM during playback. @@2. Press RANDOM again to normal. Tip: By pressing SKIP > during random playback, the unit selects another title (track) and resumes random playback.*

*Repeat A-B DVD 2. Use v or V to select the sound option. The sound option will be highlighted. Time Search DVD To start playing at any chosen time on the disc: 1. Press DISPLAY during playback. The time search box shows the elapsed playing time. 2. Press v / V to select the time clock icon and "-:--:" appears. 3. Input the required start time in hours, minutes, and seconds from left to right.*

*If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then input the correct numbers. 4. Press ENTER to confirm. Playback starts from the selected time. To repeat a sequence. 1. Press A-B at your chosen starting point. " A - " appears briefly on the TV screen. 2. Press A-B again at your chosen end point.*



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"A - B" appears briefly on the TV screen and the repeat sequence begins. 3. Press A-B again to cancel. 17 Operation 3.

Use b or B to select "3D SUR". To turn off the 3D Surround effect, select "Normal". Zoom DVD Special DVD Features Checking the contents of DVD discs: Menus DVDs may offer menus that allow you to access special features. To use the disc menu, press DVD MENU. Input the corresponding number or use the b B v V buttons to highlight your selection.

Then press ENTER. Title Menu DVD Use zoom to enlarge the video image. 1. Press ZOOM during playback or still playback to activate the Zoom function. The square frame appears briefly in the right bottom of the picture. 2. Each press of the ZOOM button changes the TV screen in the sequence: 400% size 1600% size normal size 3. Use the b B v V buttons to move through the zoomed picture. 4. To resume normal playback, press ZOOM or CLEAR button repeatedly.

Note: Zoom may not work on some DVDs. Marker Search DVD 1. Press TITLE. If the current title has a menu, the menu appears on the screen. Otherwise, the disc menu may appear. 2. The menu offers features such as camera angles, spoken language and subtitle options, and chapters for the title. 3. Press TITLE to exit. Disc Menu DVD To enter a Marker You can start playback from up to nine memorized points.

To enter a marker, press MARKER at the desired point on the disc. The Marker icon appears on the TV screen briefly. Repeat to enter up to nine markers. To Recall or Clear a Marked Scene 1. During disc playback, press SEARCH.

The marker search menu appears on the screen. 2. Within 10 seconds, press b / B to select a marker number that you want to recall or clear. 3. Press ENTER and playback starts from the marked scene.

Or, Press CLEAR and the marker number is erased from the list. 4. You can play any marker by inputting its number on the marker search menu. Press DVD MENU and the disc menu is displayed. Press DVD MENU again to exit. Camera Angle DVD If the disc contains scenes recorded at different camera angles, you can change to a different camera angle during playback. Press ANGLE repeatedly during playback to select a desired angle. Note that the number of the current angle appears on the display. Tip: The angle indicator will blink on the display window during scenes recorded at different angles as an indication that angle switching is possible. Changing the Audio Language DVD Press AUDIO repeatedly during playback to hear a different audio language or audio track.

With DVD-RW discs recorded in VR mode that have both a main and a Bilingual audio channel, you can switch between Main (L), Bilingual (R), or a mix of both (Main + Bilingual) by pressing AUDIO. Subtitles DVD Press SUBTITLE repeatedly during playback to see the different subtitle languages. 18 Playing an Audio CD or MP3/WMA Disc The DVD player can play MP3/WMA formatted recordings on CD-ROM, CD-R, or CD-RW discs. Audio CD Once you insert an audio CD a menu appears on the TV screen. Press v / V to select a track then press PLAY or ENTER and playback starts. AUDIO CD 0:00:00 1 / 12 List Track1 Track2 Track3 Track4 Track5 Track6 Track7 Track8 Program MP3 / WMA 1. Press v / V to select a folder, and press ENTER to see the folder contents. 2. Press v / V to select a track then press PLAY or ENTER. Playback starts.

MUSIC 0:00:00 MP3 / WMA disc compatibility with this player is limited as follows: · Sampling frequency: within 8 - 48 kHz (MP3), within 22 - 48kHz (WMA) · Bit rate: within 32 - 320kbps (MP3), 40 - 192kbps (WMA) · The player cannot read an MP3/WMA file that has a file extension other than ".mp3" / ".wma". · CD-R physical format should be ISO 9660 · If you record MP3 / WMA files using software that cannot create a file system (eg. Direct-CD) it is impossible to playback MP3 / WMA files.

We recommend that you use Easy-CD Creator, which creates an ISO 9660 file system. · File names should have a maximum of 8 letters and must incorporate an .mp3 or .wma extension. · They should not contain special letters such as / ? \* : " < > | etc.

· The total number of files on the disc should be less than 999. This DVD player requires that discs and recordings meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 or WMA files) that meet these standards. Customers should note that permission is required in order to download MP3 / WMA files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner. 1 / 104 List Program 1-Music1 2-Music2 3-Music3 4-Music4 5-Music5 6-Music6 7-Music7 Note: Displays path of track from the disc on the TV screen. Tip: · If you are in a file list on the MP3/WMA menu and want to return to the Folder list, use the v / V to highlight and press ENTER. · Press and hold V / v to go to the next / previous page.

· On a CD with MP3/WMA and JPEG you can switch MP3/WMA and JPEG. Press TITLE and MP3/WMA or JPEG word on top of the menu is highlighted. 19 Operation Audio CD and MP3 / WMA Disc Features Pause CD MP3 WMA Random CD 1. Press RANDOM during playback. Random Playback begins immediately and RANDOM appears on the menu screen. 2. To return to normal playback, press RANDOM repeatedly until RANDOM disappears from the menu screen. Tip: By pressing SKIP > during random playback, the unit selects another track and resumes random playback. Repeat A-B CD 1. Press PAUSE/STEP during playback.

2. To return to playback, press PLAY, ENTER or press PAUSE/STEP again. Moving to another Track CD MP3 WMA 1. Press SKIP (. or >) briefly during playback to go to the next track or to return to the beginning of the current track.

2. Press SKIP . twice briefly to go back to the previous track. 3. You can play any track by inputting its number.

Repeat Track/All/Off CD MP3 WMA 1. To repeat a sequence during disc playback press A-B at your chosen starting point. The Repeat icon and "A" appear on the menu screen. 2. Press A-B again at your chosen end point. The Repeat icon and "A-B" appear on the menu screen, and the sequence begins to play repeatedly. 3. To exit the sequence and return to normal play, press A-B again. The Repeat icon disappears from the menu screen. 3D Surround CD You can play a track/all on a disc.

1. Press REPEAT when playing a disc. The repeat icon appears. 2. Press REPEAT to select a desired repeat mode. · Track: repeats the current track · All: repeats all the tracks on a disc. · Off(No display): does not play repeatedly. Note: If you press SKIP (>) once during Repeat Track playback, the repeat playback cancels. CD MP3 WMA To produce a 3D surround effect that simulates multichannel audio from two stereo speakers (instead of the five+ speakers normally required for multi-channel audio from a home theater system).



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1.

Press AUDIO during playback. "3D SUR" appears on the menu screen. 2. To return to normal playback, press AUDIO repeatedly until "3D SUR" disappears from the menu screen. Search 1.

Press SCAN (m or M) during playback. 2. Press SCAN (m or M) repeatedly to select the required speed: X2, X4, X8 backward or forward. 3. To exit SEARCH mode, press PLAY.

20 Programmed Playback The program function enables you to store your favorite tracks from any disc in the player memory. A program can contain 99 tracks (Audio CD) or 999 tracks (MP3/WMA). 1. Insert a disc. Audio CD and MP3/WMA Discs: Audio CD or MP3/WMA menu appears as below. AUDIO CD 0:00:00 Repeat Programmed Tracks You can play a title/chapter/all/track on a disc. 1. Press REPEAT when playing a disc. The repeat icon appears. 2.

Press REPEAT to select a desired repeat mode. · Track: repeats the current track · All: repeats all the tracks on programmed list. · Off(No display): does not play repeatedly. Note: If you press SKIP (>) once during Repeat Track playback, the repeat playback cancels. Erasing a Track from Program List 1. Use v / V b / B to select the track that you wish to erase from the Program list. 2. Press CLEAR. Or, select " " icon then Press ENTER to place the selected track on the Program list. Repeat to erase additional tracks on the list.

Erasing the Complete Program List MUSIC 1 / 12 0:00:00 1 / 104 List Track1 Track2 Track3 Track4 Track5 Track6 Track7 Track8 Program Track8 Track3 Track12 Track7 Track6 Track9 Track10 Track1 List Program Music8 1-Music1 2-Music2 3-Music3 4-Music4 5-Music5 6-Music6 7-Music7 Music16 Music5 Music9 Music1 Music7 Music6 Music3 Audio CD Menu 2. Select a track on the List. MP3/WMA Menu 3. Press PROGRAM. Or, select " " icon then ENTER to place the selected track on the Program list.

Repeat to place additional tracks on the list. You can add all tracks in the disc. Select " " icon then press ENTER. 4. Select the track you want to start playing on the Program list.

Press and hold v / V to move to the next / previous page. 5. Press PLAY or ENTER to start. Playback begins in the order in which you programmed the tracks and "PROG." appears on the display window. Playback stops after all of the tracks on the Program list have played once. Note: The programs are also cleared when the disc is removed. 21 Operation Select " ", then press ENTER. The complete Program for the disc is erased. Viewing a JPEG Disc Using this DVD Player you can view Kodak PICTURE CDs and discs with JPEG files.

1. Insert a disc and close the tray. The PHOTO menu appears on the TV screen. PHOTO List JPEG Folder 1 JPEG Folder 2 JPEG Folder 3 JPEG Folder 4 JPEG Folder 5 JPEG Folder 6 JPEG Folder 7 JPEG Folder 8 Moving to another File JPEG Press SKIP (. or >) or cursor (v or V) once while viewing a picture to advance to the next or previous file. Zoom JPEG Preview Use zoom to enlarge the photo image. (see 18 page) To rotate picture Press b / B during showing a picture to rotate the picture clockwise or counter clockwise. To listen to MP3 music watching picture JPEG II 2. Press v / V to select a folder, and press ENTER. A list of files in the folder appears.

If you are in a file list and want to return to the previous Folder list, use the v / V buttons on the remote to highlight and press ENTER. 3. If you want to view a particular file, press v / V to highlight a file and press ENTER or PLAY. Slide Show starts from the selected file if Speed option is not Off. While viewing a file, you can press STOP to move to the previous menu (PHOTO menu).

Tip: · Press and hold V / v to go to the next / previous page. · There are four Slide Speed options : >>> (Fast), >> (Normal), > (Slow) and II (Off). Use v / V b / B to highlight the Speed. Then, use b / B to select the option you want to use then press ENTER. · On a disc with MP3/WMA and JPEG you can switch MP3/WMA and JPEG.

Press TITLE and MP3/WMA or JPEG word on top of the menu is highlighted. · Press RETURN, information of file is hidden. Slide Show JPEG You can display files while listening to MP3 music files recorded on the same disc. 1. Insert the disc containing the two types of file in the player. 2. Press TITLE to display PHOTO menu. 3. Press v / V to select a photo file. 4.

Use B to select icon then press ENTER. Playback starts. The playback will continue until STOP is pressed. Tip: When MP3 and picture are included in the same disc, you can listen only MP3 music during watching picture. JPEG disc compatibility with this player is limited as follows: · Depending upon the size and number of JPEG files, it could take a long time for the DVD player to read the disc's contents. If you don't see an onscreen display after several minutes, some of the files may be too large -- reduce the resolution of the JPEG files to less than 5M pixels as 2760 x 2048 pixels and burn another disc. · The total number of files and folders on the disc should be less than 999. · Some discs may be incompatible due to a different recording format or the condition of disc. · Ensure that all the selected files have the ".jpg" extensions when copying into the CD layout.

· If the files have ".jpe" or ".jpeg" extensions, please rename them as ".jpg" file. · File names without "

jpg" extension will not be able to be read by this DVD player. Even though the files are shown as JPEG image files in Windows Explorer. Use v / V b / B to highlight the press ENTER. Still Picture JPEG (Slide Show) then 1. Press PAUSE/STEP during slide show.

The player will now go into PAUSE mode. 2. To return to the slide show, press PLAY or press PAUSE/STEP again. 22 Playing a DVD VR format Disc This unit will play DVD-R/RW discs recorded using the DVD-Video format that have been finalized using a DVD-recorder. · This unit will play DVD-RW discs recorded using the Video Recording (VR) format. 1. Insert a disc and close the tray. The TITLE LIST menu appears on the TV screen. Maintenance and Service Refer to the information in this chapter before contacting a service technician. Handling the Unit When shipping the unit Please save the original shipping carton and packing materials.

If you need to ship the unit, for maximum protection, re-pack the unit as it was originally packed at the factory. Keeping the exterior surfaces clean · Do not use volatile liquids such as insecticide spray near the unit. Do not leave rubber or plastic products in contact with the unit for a long period of time. since they leave marks on the surface. 2. Press v / V to select a track then press PLAY or ENTER and playback starts. Note: · Unfinalized DVD-R/RW discs cannot be played in this player. · Some DVD-VR disc are made with CPRM data by DVD RECORDER. Player does not support these kinds of discs and display the "CHECK DISC".



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What is 'CPRM'? CPRM is a copy protection system (with scramble system) only allowing the recording of 'copy once' broadcast programs.

CPRM stands for Content Protection for Recordable Media. This player is CPRM compatible, which means that you can record copy-once broadcast programs, but you cannot then make a copy of those recordings. CPRM recordings can only be made on DVD-RW discs formatted in VR mode, and CPRM recordings can only be played on players that are specifically compatible with CPRM. Cleaning the unit To clean the player, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution.

Do not use strong solvents such as alcohol, benzene, or thinner, as these might damage the surface of the unit. Maintaining the Unit The DVD player is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn, the picture quality could be diminished. Depending on the operating environment, regular inspection and maintenance are recommended after every 1,000 hours of use. For details, please contact your nearest authorized service center.

23 Operation Reference Language Codes Use this list to input your desired language for the following initial settings: Disc Audio, Disc Subtitle, Disc Menu. Language Abkhazian Afar Afrikaans Albanian Ameharic Arabic Armenian Assamese Aymara Azerbaijani Bashkir Basque Bengali; Bangla Bhutani Bihari Breton Bulgarian Burmese Byelorussian Cambodian Catalan Chinese Corsican Croatian Czech Danish Dutch English Esperanto Estonian Faroese Code 6566 6565 6570 8381 6577 6582 7289 6583 6588 6590 6665 6985 6678 6890 6672 6682 6671 7789 6669 7577 6765 9072 6779 7282 6783 6865 7876 6978 6979 6984 7079 Language Fiji Finnish French Frisian Galician Georgian German Greek Greenlandic Guarani Gujarati Hausa Hebrew Hindi Hungarian Icelandic Indonesian Interlingua Irish Italian Japanese Javanese Kannada Kashmiri Kazakh Kirghiz Korean Kurdish Laothian Latin Latvian, Lettish Code 7074 7073 7082 7089 7176 7565 6869 6976 7576 7178 7185 7265 7387 7273 7285 7383 7378 7365 7165 7384 7465 7487 7578 7583 7575 7589 7579 7585 7679 7665 7686 Language Lingala Lithuanian Macedonian Malagasy Malay Malayalam Maltese Maori Marathi Moldavian Mongolian Nauru Nepali Norwegian Oriya Panjabi Pashto, Pushto Persian Polish Portuguese Quechua Rhaeto-Romance Rumanian Russian Samoan Sanskrit Scots Gaelic Serbian Serbo-Croatian Shona Sindhi Code 7678 7684 7775 7771 7783 7776 7784 7773 7782 7779 7778 7865 7869 7879 7982 8065 8083 7065 8076 8084 8185 8277 8279 8285 8377 8365 7168 8382 8372 8378 8368 Language Singhalese Slovak Slovenian Somali Spanish Sudanese Swahili Swedish Tagalog Tajik Tamil Tatar Telugu Thai Tibetan Tigrinya Tonga Turkish Turkmen Twi Ukrainian Urdu Uzbek Vietnamese Volapük Welsh Wolof Xhosa Yiddish Yoruba Zulu Code 8373 8375 8376 8379 6983 8385 8387 8386 8476 8471 8465 8484 8469 8472 6679 8473 8479 8482 8475 8487 8575 8582 8590 8673 8679 6789 8779 8872 7473 8979 9085 Country Codes Choose a country code from this list. Country Afghanistan Argentina Australia Austria Belgium Bhutan Bolivia Brazil Cambodia Canada Chile China Colombia Congo Costa Rica Croatia Czech Republic Denmark Ecuador Egypt El Salvador Code AF AR AU AT BE BT BO BR KH CA CL CN CO CG CR HR CZ DK EC EG SV Country Ethiopia Fiji Finland France Germany Great Britain Greece Greenland Islands Hong Kong Hungary India Indonesia Israel Italy Jamaica Japan Kenya Kuwait Libya Luxembourg Code ET FJ FI FR DE GB GR GL HM HK HU IN ID IL IT JM JP KE KW LY LU Country Malaysia Maldives Mexico Monaco Mongolia Morocco Nepal Netherlands Netherlands Antilles New Zealand Nigeria Norway Oman Pakistan Panama Paraguay Philippines Poland Portugal Romania Russian Federation Code MY MV MX MC MN MA NP NL AN NZ NG NO OM PK PA PY PH PL PT RO RU Country Saudi Arabia Senegal Singapore Slovak Republic Slovenia South Africa South Korea Spain Sri Lanka Sweden Switzerland Taiwan Thailand Turkey Uganda Ukraine United States Uruguay Uzbekistan Vietnam Zimbabwe Code SA SN SG SK SI ZA KR ES LK SE CH TW TH TR UG UA US UY UZ VN ZW 24 Troubleshooting Symptom No power. The power is on, but the DVD player does not work. No picture. Possible Cause · The power cord is disconnected. · No disc is inserted. Correction · Plug the power cord into the wall outlet securely. · The TV is not set to receive DVD signal output. · The video cable is not connected securely.

· Select the appropriate video input mode on the TV. · Connect the video cable securely. · Select the correct input mode of the audio receiver so you can listen to the sound from the DVD player. · Turn on the equipment connected with the audio cable. · Set the Digital Audio Output to the correct position, then turn on the DVD player again by pressing POWER. · Insert a playable disc. (Check the disc type, color system, and regional code.) · Cancel the rating function or change the rating level. · Point the remote control at the remote sensor of the DVD player. · Operate the remote control closer to the DVD player.

No sound. · The equipment connected with the audio cable is not set to receive DVD signal output. · The power of the equipment connected with the audio cable is turned off. · The AUDIO options are set to the wrong position. The DVD player does not start playback.

· An unplayable disc is inserted. · The rating level is set. The remote control does not work properly. · The remote control is not pointed at the remote sensor on the DVD player. · The remote control is too far from the DVD player.

Specifications General Power requirements: AC 120 V, 60 Hz Power consumption: 12W Dimensions (Approx.): 430 x 39 x 242 mm (W x H x D) without foot Weight (Approx.): 2.2 kg Operating temperature: 5 °C to 35 °C (41 °F to 95 °F) Operating humidity: 5 % to 90 % AUDIO OUT: 2.0 Vrms (1 KHz, 0 dB), 600 , RCA jack (L, R) x 1 System Laser: Semiconductor laser, wavelength 650 nm Signal system: NTSC Frequency response: DVD (PCM 96 kHz): 8 Hz to 44 kHz DVD (PCM 48 kHz): 8 Hz to 22 kHz CD: 8 Hz to 20 kHz Signal-to-noise ratio: More than 100 dB (ANALOG OUT connectors only) Harmonic distortion: Less than 0.008% Dynamic range: More than 90 dB (DVD/CD) Outputs VIDEO OUT: 1 Vp-p 75 , sync negative, RCA jack x 1 S-VIDEO OUT: (Y) 1.0 V (p-p), 75 , negative sync, Mini DIN 4-pin x 1 (C) 0.3 V (p-p) 75 COMPONENT VIDEO OUT: (Y) 1.0 V (p-p), 75 ,negative sync, RCA jack x 1 (Pb)/(Pr) 0.7 V (p-p), 75 , RCA jack x 2 Accessories S-Video cable (1), Video cable (1), Audio cable (1), Remote control (1), Batteries (2) Note: Design and specifications are subject to change prior notice.

25 Reference DIGITAL OUT (COAXIAL): 0.5 V (p-p), 75 , RCA jack x 1 title · Insert a disc. (Check that the DVD or audio CD indicator in the display window is lit.



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, institutional or commercial use, or other causes not arising out of defect in material or workmanship. 3. Therefore, the cost of repair or replacement of such a defective product shall be borne by the consumer. CUSTOMER INTER-ACTIVE CENTER NUMBERS: For Warranty Service Call 1-800-984-9349 (24 hours a day, 365 days per year) Retain your dated sales receipt to prove the Date of Purchase as well as your box for shipping the unit to LG, for warranty service. Legible copy of your sales receipt must be submitted with the unit at the time the unit is returned for warranty service. For Post Warranty Repair For repair or replacement after the Warranty Period has expired, Call 1-800-984-9349 (24 hours a day, 365 days per year) For Where-to buy, Product Assistance, or Call 1-877-9 Zenith (1-877-993-6484) (24 hours a day, 365 days per year) and Customer Assistance select an appropriate option from the menu. Or visit our website at <http://www.zenithservice.com> FOR WARRANTY SERVICE: You must call 1-800-984-9349 (24 hours a day, 365 days per year) and select appropriate option from the menu to confirm the product is defective and to obtain Return Authorization (RA). During the Warranty Period, LG will send you a return-shipment label.

After you obtain RA for return, please box your unit with a copy of the sales receipt and enough packing material to ensure undamaged delivery of your product. When you receive the label, place it on the box and call the 800 # in the instruction for pick-up. When your unit is received, LG will repair or replace your unit in accordance with this Limited Warranty. ADVANCE SHIPMENT. If replacement unit is available and you want second day delivery, our service representative will ask for your credit card number. LG requires a reserved deposit by credit card as surety for such advance shipment. Your credit card will not be charged if you return the defective unit in 10 business days. For advance shipment, the return label will come with the replacement unit sent to you.

Please follow boxing and shipping instructions above. MARKETED AND DISTRIBUTED BY LG ELECTRONICS U.

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