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You can read the recommendations in the user guide, the technical guide or the installation guide for TOSHIBA SD3020. You'll find the answers to all your questions on the TOSHIBA SD3020 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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TOSHIBA



DVD player



SD3020KE
Owner's Manual



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Manual abstract:

••••• Only use this product indoors. Keep this product away from water, moisture and liquid-filled objects. • Never place this product on other electrical equipment. • Keep away from this product during lightning storms. • Where the mains plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable. • Always consider the environment when disposing of batteries. • The use of apparatus in moderate climate. **LASER CAUTION: USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE. CAUTION: VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN AND INTERLOCKS DEFEATED. DO NOT STARE INTO BEAM.**

LOCATION: INSIDE, NEAR THE DECK MECHANISM. This product is labeled with the CE Mark in accordance with the related European Directives, notably Low Voltage Directive 2006/95/EC, Electromagnetic Compatibility Directive 2004/108/EC and RoHS Directive 2011/65/EU. Furthermore the product complies with the Ecodesign Directive 2005/32/EC (EuP) and 2009/125/EC (ErP) and its related implementing measures. Responsible for CE-marking is TOSHIBA EUROPE GMBH Hammfelddamm 8, 41460 Neuss, Germany REACH information The European Union (EU) chemical regulation, REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), entered into force on 1 June 2007, with phased deadlines to 2018. Toshiba will meet all REACH requirements and is committed to provide our customers with information about the presence in our articles of substances included on the candidate list according to REACH regulation.

Please consult the following website www.toshiba.eu/reach for information about the presence in our articles of substances included on the candidate list according to REACH in a concentration above 0.1 % weight by weight. Disposal of your old product and batteries Following information is only valid for EU member States: Disposal of products The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste.

Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres. The black bar indicates that the product was placed on the market after August 13, 2005. By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please contact your retailer where the product was purchased.

Disposal of batteries and/or accumulators The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste. If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the rating plate and the safety caution are located on the rear enclosure of the player. EU Conformity Statement 3 English chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol. By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please contact your retailer where the product was purchased.

Pb,Hg,Cd English The symbol for CLASS II (Double Insulation) Copyright notice 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. 4 Notice for Trademark 2 Your Product Regions codes ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation.

This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos. 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 for more information on how to complete your registration. DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license.

DivX Certified® to play DivX® video, including premium content. Both the DVD Player and the discs are coded by region. These regional codes must match in order to play the disc. If the codes do not match, the disc will not play. The Region Number for this DVD Player is described on the rear panel of the DVD player.

DVD discs that can be played Region U.S.A. and Canada regions U.K., Europe regions and Japan Asia Pacific, Taiwan, Korea Australia, New Zealand, Latin America Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories. Russia and India regions 'DVD Video Logo' is a trademark of DVD Format/ Logo Licensing Corporation. China, Calcos Islands, Walls and Futuna Islands The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. Feature highlights High-Definition entertainment Watch high-definition content disc with HDTV (High Definition Television).

Connect it through a high speed HDMI cable. You can enjoy excellent picture quality up to 1080p resolution with the frame rate of 24 frames per second with progressive scan output. 5 English Product overview Front panel English Item 1 2 3 4 5 6 Back panel 3 5 1 2 3 4 5 6 (Sample Illustration) Front panel controls Description Disc compartment IR Sensor Z r u 1 Function Load a disc into the disc drive. Point the remote control at the IR sensor. Open or close the disc compartment. Stop playback. Playback/pause. Turn the power on (indicator glows green) or restore the unit to the standby mode (indicator is off). 1 2 4 (Sample Illustration) Back panel connections Function Connect to a standard AC outlet. Output video/audio signals to a connected TV, monitor or AV receiver/amplifier.

Connect to a TV, monitor or AV receiver/amplifier equipped with HDMI input. Connects to CVBS Video input of a TV. Output digital audio signals when connecting the coaxial digital cable.



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Connects to Audio input of a TV, an amplifier, receiver or stereo system. Item 1 2 3 4 5 Description AC power cord HDMI OUT jack VIDEO OUT jack (CVBS) COAXIAL DIGITAL OUT jack AUDIO OUT jacks 6 Remote control DISPLAY Displays a window to locate a title, chapter or track OPEN/CLOSE Opens/closes the disc tray Number Buttons Selects numbered items in a menu Enters track/chapter/title numbers/password directly +10 button Enters number greater than 9 Press +10 button repeatedly to select 10,20,30.

..etc MENU Enters the disc menu Switches Playback Control (PBC) On/Off (for VCD 2.0/ SVCD only) RETURN Returns to previous menu. Returns to disc menu during VCD 2.

0/SVCD playback if PBC is On F.R & F.F Fast reverses/ fast forwards playback PREV & NEXT Skips to previous/next chapter/title/track REPEAT Selects various repeat modes A-B Repeats from A to B SLOW Do a slow forward during normal playback CLEAR Delete the mistyped entries or cancel some functions RANDOM Toggles between Normal and Random during Audio CD playback PROG To create or cancel a program playback list REMOTE SIGNAL EMITTER Point remote control to the sensor on the front panel ON / STANDBY Turns the unit to ON or standby mode T-SEARCH Start playback from a designated point SETUP Opens the system setup menu Navigation/Cursor buttons for moving to the left / right /up/down Press / / during JPEG playback to rotate the current photo track OK Acknowledges/Confirms menu selection TITLE Show title menu STEP Advances the video frame-by-frame during pause mode PLAY/PAUSE Starts/Pauses playback STOP Stops playback Press to view a page of 12 thumbnail images during JPEG playback SUBTITLE Displays subtitle; press repeatedly to select different subtitles available in your disc ANGLE Switches the camera angle during playback AUDIO Selects the sound stream; press repeatedly to select different audio streams available in your disc (DVD) or an audio mode (VCD) ZOOM Zooms in 7 English 3 Connections Make the following connection to use this product. player to the corresponding AUDIO IN jacks on the Stereo System (cable not supplied). Connecting to a TV Connecting to the HDMI jack Connect a HDMI cable from the HDMITM output jack on this player to the HDMITM input jack on the TV. An HDMI cable carries both video and audio signals. If you wish to use TV speakers, you do not need to make an additional audio connection. Audio cable (not supplied) English (Sample Illustration) Connecting to a Stereo System Connecting to the digital amplifier/ receiver HDMI playback from the point where playback is stopped. 2. Press the STOP button twice to stop the playback completely.

Fast Forward and Fast Reverse 1. Press the F.F M button to fast forward through the disc. The fast forward speed changes based on how many times you pressed the button. 2. Press the F.R m button to fast reverse through the disc. The fast reverse speed changes based on how many times you pressed the button. The speed will increase through the following sequence: 2X, 4X, 8X, 16X, 32X. 3.

Press the PLAY/PAUSE u button to resume normal playback. Previous and Next 1. During playback, press the button PREV _m to skip back to the beginning of the current chapter or track or the previous chapter or track. 2. Press the button NEXT M_ during playback will allow you to skip the playback to next chapter or track.

Slow Forward 1. Press the SLOW button during normal playback. The slow forward speed is 1/2 in default. 2. To change slow forward speed, press the SLOW button repeatedly, and the slow forward speed will be changed in the following sequence: 1/2, 1/4, 1/8, normal.

3. To exit slow forward mode and return to normal playback, press the PLAY/PAUSE u button. Step Forward Use this feature to help you to enjoy the video frame by frame. 1. Press the PLAY/PAUSE u button during normal playback, then playback will change to pause state. 2. Press the STEP button repeatedly to advance the picture frame by frame. 3. Press the PLAY/PAUSE u button to resume normal playback. Advanced Playback DISPLAY Press the DISPLAY button and the screen will display some information about disc, such as: Title number, Chapter number, Track number, Elapsed Time.

Press this button repeatedly to turn off the information display. REPEAT Press the REPEAT button repeatedly to select different repeat modes. DVD: Repeat Chapter, Title and All. VCD PBC Off/CD-DA: Repeat Track and All. A-B 1. Press the A-B button to play certain section within the video or song, T press the A-B button to set the start point. 2. Press A-B button again to set the end point and complete the setting. The selected section will be played repeatedly. 3.

Press the A-B button the third time to cancel this function. Not all DVD discs support the repeat A-B feature. English 10 T-SEARCH During DVD playback, press the T-SEARCH button to edit Title, Chapter, Audio, Subtitle, Angle, TT (Title), CH (Chapter) Time, Repeat and Time Disp. (Display) menu. During VCD playback, press the T-SEARCH button to edit Track, Disc Time, Track Time, Repeat and Time Display menu.

1. Press v/V and OK button on the remote control to select Title, Chapter, or Time etc. 2. Press the numeric buttons or v/V and then press OK. The playback will skip to the desired location.

3. Press T-SEARCH to exit and resume full screen Note: - Playback will not be stopped even when the P menu is on the screen. TITLE During VCD playback and PBC On is selected, Press the TITLE button to display PBC Menu. MENU During VCD or SVCD playback, press MENU to switch PBC On/Off. During DVD playback, press MENU button to open the disc menu. RETURN Press the RETURN button to return to the previous on-screen menu in setting menu such as Password Change, Parental, etc. During VCD disc playback and PBC On is selected, press the RETURN button to return to PBC Menu. PROG During DVD/VCD playback, you can press the PROG button to edit the sequence of the playlist. 1. Press PROG button to enter the Program playlist setting menu.

2. Press the numeric buttons to set your desired P title/chapter/track. 3. After finish inputting, select "Start" and press A OK button to start playback the disc based on the Program playlist. 4. Press the PROG button to clear the Program playlist, press PROG, T select "Stop" and press OK. To exit, press PROG or select "Exit". ZOOM Press the ZOOM button repeatedly to Zoom in playback in the video. Zoom mode: 2x -> 3x -> 4x SUBTITLE Press the SUBTITLE button repeatedly and AUDIO Press the AUDIO button on the remote control to select the audio streams that set within the DVD disc or an audio channel (VCD). During VCD playback, the screen will display "Mono Left", "Mono Right", "Mix-Mono" or "Stereo".

During DVD playback, the screen will display: AUDIO: X / XX XXX XXXX "X" - The current audio stream number "XX" - The total number of audio streams "XXX" - Audio Technology "XXXX" - Audio Language ANGLE During DVD playback, press this button to change the angle of the picture.



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The screen will display "X/X". The first "X" indicates the current number of angle, and the second "X" indicates total number of angles. @@@@@1.

Load a disc that contains MP3/JPEG/DivX® files.

@@Note: - □ of all media formats are supported. @@@@@@@It helps to protect the TV screen. @@@@{Off} - Turn off the screen saver mode.

@@2. □Press v/V to select an option and press OK.

3. □Use v/V to select the desired Audio setting and press OK. 4. Press b or the RETURN button to return to the previous menu. @@@@@{Stereo} - Downmixes the multi-channel audio into two channel stereo. @@@@@@@{On} - Dynamic range compress. {Off} - Non-dynamic range compress.

@@2. □Press v/V to select an option and press OK. 3.

Press b or the RETURN button to return to the previous menu. @@{4:3 Pan Scan} - For standard TV, it displays a wide picture on the entire screen and cuts off the redundant portions. {4:3 Letter Box} - For standard TV, it displays a wide picture with two black borders on the top and bottom of 4:3 screen. {16:9 Full} - For a disc with the aspect ratio of 4:3, the output video is stretched into 16:9 full screen. {16:9 Normal} - For a disc with the aspect ratio of 4:3, the output video is stretched vertically to match what will be seen on the display. [Angle Mark] Some DVDs contain the scenes recorded with multiple angles, which allow you to enjoy the videos with your desired angles, therefore the angle mark is displayed only when the DVD disc is supportable for multi-angle and Angle Mark is set to ON. {On} - Display the angle mark. {Off} - Hide the angle mark. [OSD Lang] Select the on-screen menu language. 12 [LPCM Out] Selects LPCM Out (Linear Pulse Code Modulation) sampling rate.

The higher the sampling rate, the better the sound quality. {48k} - For discs recorded at sampling rate of 48 kHz. {96k} - For discs recorded at sampling rate of 96 kHz. 3D Processing [Reverb Mode] Use the v/V button to view the reverb mode available in the player and select your desired reverb mode. {Off} - Turn the reverb mode off.

{Concert} - Select Concert mode. {Living Room} - Select Living Room mode. {Hall} - Select Hall mode. {Bathroom} - Select Bathroom mode. {Cave} - Select Cave mode.

{Arena} - Select Arena mode. {Church} - Select Church mode. [Brightness] Press b/B to adjust the brightness of display, goes left means dark and right means bright. [Contrast] Press b/B to adjust the contrast of display, goes left means low contrast and right means high contrast. [Gamma] Select the level of gamma: None, Low, Medium, High. {None} - No gamma function selection. {Low} - Select Low gamma level. {Medium} - Select Medium gamma level. {High} - Select High gamma level. [Hue] Press b/B to adjust the Hue of display, goes left means low hue and right means high hue.

[Saturation] Press b/B to adjust the saturation of display, goes left means low Saturation and right means high saturation. [DivX® VOD] Select to register or cancel your DVD player with DivX® VOD. [DivX® Subtitle] If your DivX® files include a subtitle file then you may select a supported DivX® subtitle language by region. {Standard} Albanian, Danish, Dutch, English, Finnish, French, Gaelic, German, Italian, Kurdish (Latin), Norwegian, Portuguese, Spanish, Swedish and Turkish. {Central Eur} Albanian, Croat, Czech, Dutch, English, German, Hungarian, Irish, Polish, Romanian, Slovak, Slovene and Sorbian. {Cyrillic} Bulgarian, Belorussian, English, Macedonian, Moldavian, Russian, Serbian and Ukrainian. {Greek} Video 1. □n Setup menu, use b/B to select Video and I press OK. 2. □Press v/V to select an option and press OK.

3. □Use v/V to select the desired Video setting and press OK. 4. Press b or the RETURN button to return to the previous menu. [Resolution] Select a video output resolution that is compatible with your TV display capability.

{Auto} - Select the most suitable resolution according to the TV. {480p/576p, 720p, 1080i, 1080p} - Select a video resolution setting that is best supported by the TV. See TV manual for details. Quality Select the Quality according to how you want the picture to appear on the TV. 13 English {SPDIF Off} - No audio will be output via COAXIAL DIGITAL OUT jack.

{Bitstream} - Selects Bitstream output if your receiver SPDIF (Coaxial) IN only supports Bitstream stereo audio signal. {SPDIF/PCM} - Selects SPDIF/PCM output if your receiver SPDIF (Coaxial) IN only supports SPDIF/PCM stereo audio signal. [Sharpness] Select the level of sharpness: High, Medium, Low. {High} - Select High sharpness level. {Medium} - Select Medium sharpness level. {Low} - Select Low sharpness level. English and Modern Greek only. {Hebrew} English and Modern Hebrew only. Preference 1. In Setup menu, use b/B to select Preference and press OK.

2. □Press v/V to select an option and press OK. 3. Use v/V to select the desired Preference setting and press OK. 4. Press b or the RETURN button to return to the previous menu. [TV Type] The video standard of the DVD player output can be selected from NTSC or PAL. {PAL TV} - Select if your TV system is PAL. {NTSC TV} - Select if your TV system is NTSC. [PBC] Select to display or skip the content menu for VCD and SVCD.

{On} - Display the content menu {Off} - Hide the content menu. [Audio] Select the audio language of your preference. [Subtitle] Select your preferred subtitle language. [Disc Menu] Select the disc menu language. [Parental] Restricts access to discs that are unsuitable for children.

These discs must be recorded with rating. {Kid safe} - Safe for kids. {G} - All children and general guidance. {PG} - Parental guidance. {PG-13} - Parental guidance for children under 13.

{PG-R} - Parental guidance recommended. {R} - Restricted viewing. {NC-17} - No one 17 and under allowed. {Adult} - Adult only. Password [Password Mode] {On} - To turn on the password mode. You will be prompted to enter the password, key in the default password or the password which you have set. - During disc playback, rated disc above the level you set in [Parental] will require a password to be entered. {Off} - To turn off the password mode. You will be prompted to enter the password, key in the default password or the password which you have set. - You will not be required to enter the password when setting the level in [Parental] but during disc playback with the rated disc above the level you set in [Parental] will still require a password to be entered.

[Password] To change the password for playing restricted DVDs. {Change} 1. □se NUMBER keys to enter six digit old U password. The default password is "136900". 2. □nter the new password. E 3. Enter the new password again to confirm. □ If you forget the password, you can erase your current password by entering the default password. [Default] Reset all settings of DVD player to initial default state.

English Note: - - □ ated discs above the level you set in [Parental] R require a password to be entered. 14 7 □Specifications Playable media This product can play: • □□□□ DVD, DVD-Video, DVD-R/-RW, DVD-R DL (Dual Layer) • Video CD/SVCD • Audio CD, CD-R/CD-RW Video • Signal system: PAL/NTSC • HDMI Output: 1080p Audio • □igital output (Coaxial): 0.



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5 Vp-p (75 Ω) D • □ DMI output H Main Unit • □ Power supply rating: 110V-240V, 50/60Hz P • □ Power consumption: 8W P • □ Power consumption in standby mode: <0.5W P • □ Dimensions (w x h x d): 270 x 38 x 200 (mm) D • □ Net Weight: 0.95 kg N • □ Operating temperature: 5°C to 35°C O • □ Operating humidity: 10% to 90% RH (no condensation) Compatible file formats MP3 tracks • Supported file extension: '.mp3'

• Supported audio codec: MP3 • ISO format • Supported corresponding bitrate: 8kbps-320 kbps • Supported sampling frequencies: 32kHz, 44.1kHz, 48kHz JPEG • Supported file extension: '.jpg' or '.jpeg' S • □ PEG/ISO format J • □ Support Picture CD S DivX® • □ Supported file extension: '.DIVX' S Other formats • □ D-DA, AC-3, MPEG-1, MPEG-2, AVI ('.

avi'), C MPEGA ('.mpg', '.mpeg'), DAT, VOB Accessories supplied • □ Remote control (SE-R0301) R • □ Two AAA size batteries T • □ Quick start Guide Q Note: - □ Product specifications, configurations, prices, system/component/options availability are all subject to P change without notice. Disclaimer 1080p capable display required for viewing in 1080p. Viewing HD content and up-converting DVD content may require an HDCP capable input on your display device.

While up-converting DVD video content may result in a picture that appears to be near HD quality, results may vary depending on content, display and settings. Firmware update may be required. For Dolby® TrueHD playback, content encoded in Dolby® TrueHD format required. Viewing 1080p/24 fps output requires 1080p/24 fps encoded content and an HD display capable of accepting a 1080p/24Hz signal. Supported file types: JPEG, MP3, WMA, and AVCHD.

Some recordable media, cards or files may not be supported. Product specifications, information and availability are all subject to change without notice. 15

English 8 □ Troubleshooting If you experience any of the following difficulties while using this unit, check the list below before consulting your nearest TOSHIBA dealer. Problem Tip English 16 N o r e a c t i o n t o t h e r e m o t e C o n t r o l C o n n e c t t h e p r o d u c t t o t h e p o w e r o u t l e t . c o n t r o l . P o i n t t h e r e m o t e c o n t r o l a t t h e p r o d u c t . I n s e r t t h e b a t t e r y c o r r e c t l y . I n s e r t n e w b a t t e r y i n t h e r e m o t e c o n t r o l . N o v i d e o s i g n a l o n t h e d i s p l a y T u r n o n t h e T V . d e v i c e .

Set the TV to the correct external input. Select the correct video resolution. Set TV System of TV correctly. Incorrect or no audio/video If the unit is connected to the unauthorized display device signal on the amplifier/display with an HDMI cable, the audio/video signal may not be device via HDMI cable. output.

Ensure the amplifier/display devices setting match the DVD player. No high-definition video signal Does the disc contain high-definition video? High-definition on the TV. video is not available when the disc does not contain it. Does the TV support high-definition video? High-definition video is not available when the TV does not support it. N o a u d i o s i g n a l f r o m t h e T u r n o n t h e a u d i o s y s t e m .

loudspeakers of the audio Set the audio system to the correct external input. system. Increase the volume level of the audio system. Cannot play back a disc. Make sure that the DVD player supports the disc. Make sure that the DVD player supports the region code of the DVD. For DVD+RW/+R or DVD-RW/-R, make sure that the disc is finalized. Clean the disc. Cannot play back JPEG files from Make sure that the disc was recorded in the JPEG/ISO format. a disc.

Cannot play DivX® files Make sure that the file was recorded in the H.264 or MPEG-4 format. Cannot play MP3 files from a Make sure that the disc was recorded in the ISO format. disc. Make sure that the bit rate of the MP3 files is between 8 and 320 kbps. Make sure that the sample rate of the MP3 files is 32kHz, 44.1kHz or 48 kHz. Cannot find a JPEG file. Make sure that the selected group (folder) does not contain more than 2,000 files. Make sure that the file extension is .

.jpg, .JPG, .jpeg or .JPEG. Problem Cannot find a MP3 file.

Tip Make sure that the selected folder does not contain more than 2,000 files . Sometimes the options of setup When playing a DVD disc, press STOP button once, the player menu cannot be selected. will go into stop resume mode, meanwhile you cannot change some settings in setup menu such as language subitem menu, audio, subtitle etc. @ @ @ @ @ @ @ @ AVI files can contain both audio and video data in a file container that allows synchronous audio-withvideo playback. Chapter Just as a book is split up into several chapters, a title on a DVD-video is usually divided into chapters.

Digital Audio Digital Audio is a sound signal that has been converted into numerical values. Digital sound can be transmitted through multiple channels.

Analogue sound can only be transmitted through two channels. DivX® ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos. 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 for more information on how to complete your registration. DivX®, DivX Certified® and associated logos are trademarks of Rovi Corporation or its subsidiaries and are used under license. DivX Certified® to play DivX® video, including premium content. Dolby® Digital The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo (2ch) or multichannel audio. HDCP High-bandwidth Digital Content Protection. This is a specification that provides a secure transmission of digital contents between different devices (to prevent unauthorized copyright.) HDMI® High-Definition

Multimedia Interface (HDMI) is a high-speed digital interface that can transmit uncompressed high definition video and digital multichannel audio. It delivers high quality picture and sound quality.

HDMI is fully backward compatible with DVI. As required by the HDMI standard, connecting to HDMI or DVI products without HDCP (High bandwidth Digital Content Protection) will result in no Video or Audio output. JPEG A very common digital still picture format. A stillpicture data compression system proposed by the Joint Photographic Expert Group, which features small decrease in image quality in spite of its high compression ratio. Files are recognized by their file extension '.

.jpg' or '.jpeg'. MP3 A file format with a sound data compression system. MP3 is the abbreviation of Motion Picture Experts Group 1 (or MPEG-1) Audio Layer 3. With the MP3 format, one CD-R or CD-RW can contain about 10 times more data than a regular CD.



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PCM Pulse Code Modulation. A digital audio encoding system. Region code A system that allows discs to be played only in the region designated. This unit only plays discs that have compatible region codes. You can find the region code of your unit on the product label. Some discs are compatible with more than one region (or ALL regions). Sampling Frequency The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality. Title A collection of chapters on DVD-video.

Track Audio CD use tracks to divide up the content of a disc. The DVD-video equivalent is called a chapter. See also "Chapter". English 18.



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