Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for SHARP LC-40LE730E/731E/732E/46LE730E/731E/732E. You'll find the answers to all your questions on the SHARP LC-40LE730E/731E/732E/46LE730E/731E/732E in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SHARP LC-40LE730E/731E/732E/46LE730E/731E/732E
User guide SHARP LC-40LE730E/731E/732E/46LE730E/731E/732E
Operating instructions SHARP LC-40LE730E/731E/732E/46LE730E/731E/732E
Instructions for use SHARP LC-40LE730E/731E/732E/46LE730E/731E/732E
Instruction manual SHARP LC-40LE730E/731E/732E/46LE730E/731E/732E

Manual abstract:

@@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. (630) [705] (560) [635] ([18.8]) DANGER: The fuse from the cut-off plug should be removed and the cut-off plug destroyed immediately and disposed of in a safe manner. Under no circumstances should the cut-off plug be inserted elsewhere into a 13A socket outlet, as a serious electric shock may occur. To fit an appropriate plug to the mains lead, follow the instructions below: The wires in the mains lead are coloured in accordance with the following code: Blue: Neutral Brown: Live As the colours of the wires in the mains lead of this product may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: ? @@? @@@@Before replacing the plug cover make sure that: ? @@? The cord grip is clamped over the sheath of the mains lead, and not simply over the lead wires. IF YOU HAVE ANY DOUBT, CONSULT A QUALIFIED ELECTRICIAN. (457) [484. 6] {70} The mains lead of this product is fitted with a non-rewireable (moulded) plug incorporating a 13A fuse. Should the fuse need to be replaced, a BSI or ASTA approved BS 1362 fuse marked or)5) and of the same rating as above, which is also indicated on the pin face of the plug, must be used. Always refit the fuse cover after replacing the fuse. Never use the plug without the fuse cover fitted. In the unlikely event of the socket outlet in your home not being compatible with the plug supplied, cut off the mains plug and fit an appropriate type.
(350.5) [388.5] SPECIAL NOTE FOR USERS IN THE U.K. (500) [574.
5] Covered by one or more of the following U.S. Patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274 (242) [265] ([400]) IMPORTANT: ([400]) (196) [187.2] 40?: ( ) 46?: [ ] 40?/46?: ([ ]) OPERATION MANUAL ENGLISH ENGLISH 1 ? The illustrations and the OSD in this operation manual are for explanation purposes and may vary slightly from the actual operations. ? The examples used throughout this manual are based on the LC-40LE730E model. ? The LC-40LE730E, LC-40LE731E, LC-40LE732E, LC-46LE730E, LC-46LE731E and LC-46LE732E models are compatible with high definition broadcasts, H.264 compressed (MPEG4 H.264, MPEG4 AVC, MPEG4 AVC/H.264). Contents Contents .

Introduction

Dear SHARP customer

Thank you for your purchase of the SHARP LCD colour TV product. To ensure safety and many years of troublefree operation of your product, please read the Important Safety Precautions carefully before using this product.

Important Safety Precautions

? Cleaning?Unplug the AC cord from the AC outlet before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.

? Use a soft damp cloth to gently wipe the panel when it is dirty. To protect the panel, do not use a chemical cloth to clean it. Chemicals may cause damage or cracks in the cabinet of the TV.

? Water and moisture?Do not use the product near water, such as bathtub, washbasin, kitchen sink, laundry tub, swimming pool and in a wet basement.

? Do not place vases or any other water-filled containers on this product. The water may spill onto the product causing fire or electric shock.

? Stand?Do not place the product on an unstable cart, stand, tripod or table. Doing so can cause the product to fall, resulting in serious personal injuries as well as damage to the product. Use only a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. When mounting the product on a wall, be sure to follow the manufacturer?s instructions. Use only the mounting hardware recommended by the manufacturer.

? When relocating the product placed on a cart, it must be moveel or external input.

7 (Sound mode) (Page 20) Select a sound multiplex mode.

f Picture format (Page 26) Change between different picture formats.

e (Mute) TV sound on/off. i+/- (Volume) Increase/decrease TV volume. @ ATV/DTV/SAT: Display ?CH list? when ?Menu? screen on/off. no other ?Menu? screen is running. 3D (Page 36) R> Select between 3D and 2D image ATV/DTV/SAT: Exit the ?Menu? viewing. screen. a/b/c/d (Cursor) T NET Select a desired item. Access ?Connected TV? mode. USB REC/Media Player/Home Media: (Page 31) S/V Y p Channel information (Page 25) Rewind and fast forward. Display the station information T/L (channel number, signal, etc.
) on the Rewind and forward in units of 5 screen.

minutes. FAV ; Shows the favourite channels list. Execute a command. U b Source List (Page 10) Select an input source. I # (Page 19) Select audio/video settings. ECO On/Off (Page 28) Select ?Power save? setting. O m Teletext (Page 12) ATV: Display analogue teletext. DTV/SAT: Select MHEG-5 or teletext for DTV/SAT. P :r/s ATV/DTV/SAT: Select the TV channel. NET: Scrolls pages up/down. A EPG (Page 11) DTV/SAT: Display the EPG screen. S 6 Return ATV/DTV/SAT: Return to the previous ?Menu? screen. NET: Return to the previous page (This may not function for some services). D Buttons for useful operations [Subtitle (Pages 10, 12 and 24) Switch subtitle languages on/off. k Reveal hidden teletext (Page 12) 1 Subpage (Page 12) 3 Freeze/Hold (Page 12) Teletext: Stop updating teletext pages automatically or release thee remote control unit fails to operate, replace the batteries with new ?AAA? size batteries. 1 2 Open battery cover. Insert two supplied ?AAA? size batteries. ? Place batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment. Close the battery cover.

3 CAUTION Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below. ? Do not mix batteries of different types. Different types of batteries have different characteristics. ? Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries. ? Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you ?nd any chemical leakage, wipe thoroughly with a cloth. ? The batteries supplied with this product may have a shorter life expectancy due to storage conditions.

? If you will not be using the remote control unit for an extended period of time, remove the batteries from it. ? When replacing the batteries, use zinc-carbon batteries instead of alkaline ones. Note on disposing batteries: The batteries provided contain no harmful materials such as cadmium, lead or mercury. Regulations concerning used batteries stipulate that batteries may no longer be thrown out with the household rubbish. Deposit any used batteries free of charge into the designated collection containers set up at commercial businesses.

Using the remote control unit Use the remote control unit by pointing it towards the remote control sensor. Objects between the remote control unit and sensor may prevent proper operation. Remote control sensor Cautions regarding the remote control unit ? Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place in an area with high humidity. ? Do not install or place the remote control unit under direct sunlight.

The heat may cause deformation of the unit. ? The remote control unit may not work properly if the remote control sensor of the TV is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or the TV, or operate the remote control unit closer to the remote control sensor. 6 Quick guide Initial installation overview Follow the steps below one by one when using the TV for the first time. Some steps may not be necessary depending on your TV installation and connection. 1 Preparation 2 Power on and run the auto installation 3 Watch TV ? Connect an antenna cable to the antenna terminal (Page 8). ? Turn on the power using a on ? Congratulations! Now you can watch TV. the TV (Page 10). ? If necessary, adjust the antenna to attain maximum signal reception (Page 9). ? Run the initial auto installation (Page 9).

??Language, country, tuner type settings and TV Location setting. Connect external devices ? Connect external devices such as a DVD player/recorder as instructed (Pages 13, 14 and 15). ? If necessary, insert a CA card into the CI slot to watch scrambled broadcasts (Page 8.) ? Plug in the AC cord (Page 8). ??Go to Next. ? Connect external audio devices such as speakers/amplifier as instructed (Pages 13, 14 and 15). Start searching channels Product shape varies in some countries. 7 Quick guide Before turning on the power 1 Carefully insert the CI Module in the CI slot with the contact side forward. The logo on the CI Module must be facing outward from the rear of the TV. 2 AC cord Product shape varies in some countries.

Place the TV close to the AC outlet, and keep the power plug within reach. Standard DIN45325 plug (IEC 169-2) 75q coaxial cable. Inserting a CA Card In order to receive coded digital stations, a Common Interface Module (CI Module) and a CA Card must be inserted in the CI slot of the TV. The CI Module and the CA Card are not supplied accessories. They are usually available from your dealers.

Checking CI Module information 1 2 3 Press MENU and the ?PICTURE? menu is shown. Press c/d to select ?CHANNEL? menu. ? The content of this menu depends on the provider of the CI Module. Inserting the CA Card into the CI Module 1 With the side with the gold coloured contact chip facing the side of the CI Module marked with the provider?s logo, push the CA Card into the CI Module as far as it will go. Note the direction of the arrow printed on the CA Card. Carefully insert the CI Module in the CI slot with the contact side forward. The logo on the CI Module must be facing outward from the rear of the TV. Do not use excessive force. Make sure the module is not bent in the process. Press a/b to select ?CI information?, and then press OK. ? Module General information on CI Module displays. ? Menu Adjustment parameters of each CA Card displays. Inserting the CI Module in the CI slot 2 ? Enquiry You can input numerical values such as passwords here. NOTE The content of each screen depends on the provider of the CI Module. NOTE ? ? ? ? ? ? Make sure that the CI module is properly inserted.

This menu is only available for digital stations. It takes about 30 seconds to certify the license key when you insert a CA card into the CI+ compatible CI module for the first time. This process may fail when there is no antenna input or you have never run ?Auto installation?. The CI+ compatible CI module sometimes upgrades its firmware. You may not receive any TV images before upgrading. You can only use the power button during upgrading. The CI+ compatible CI module does not allow you to output any copy protected programmes using monitor out. If the TV displays an update confirmation message for the CA card while receiving CI+ compatible broadcasts, follow the screen prompts. 8 Quick guide Initial auto installation When the TV is powered on for the first time after purchase, the initial auto installation wizard appears. Follow the menus and make the necessary settings one after another. Picture Mode is changed, the TV will automatically switch back to DYNAMIC when there is no signal input from the TV or remote control unit for 30 minutes. If you have chosen STORE by mistake, go to Settings ? Restore Factory Default ? OK, and the TV returns to the initial screen.

Confirm the following before turning on the power E Is the antenna cable connected? E Is the AC cord plugged in? 1 2 Press a on the TV. ? The initial auto installation wizard appears. 7 Starting channel search.

Press ? to select Next and then press OK. ? If you want to search for more broadcasts, execute ?DTV (or ATV, or CADTV) manual tuning? from the menu ?CHANNEL? (Page 22). ? To watch both analogue broadcasts and digital broadcasts, you should perform the channel search setting ?DTV+ATV? or ?CADTV+ATV?. ? Is not possible to search digital and cable digital broadcasts at the same time. Setting the OSD language.

Press a/b/c/d to select the desired language. 8 The TV searches for, sorts and stores all the receivable TV stations according to their settings and the connected antenna. ? To cancel the initial auto installation in progress, press END. NOTE ? ? 3 Setting the country. Press ?/?/?/? to select your country or area. ? This setting screen only appears during the initial auto installation. ? If you turn the power on the TV after performing step 4, initial auto installation wizard does not appear. The auto installation function allows you to execute the installation again from the Channel menu (Page 22). When "France" is selected in the Country setting, the PIN code setting cannot be skipped. After initial Auto Tuning is completed, the default PIN is automatically set to ?3001?.

To change the PIN setting, refer to Lock menu on page 21. 4 5 Select time zone. Select broadcast settings. Press ?/? to select ?Tuner type?. Press ?/? to select between differents tune type: Checking quality and signal strength If you install a DVB-T/T2/S/S2 antenna for the first time of relocate it, you should adjust the alignment of the antenna to receive a good reception while checking the antenna setup screen. 1 Press a channel you want to check. 2 Press MENU. 3 Press ? to select ?Channel? menu and then press OK. 4 Press ?/? to select "Signal Information" and then press OK. 6 CADTV: Cable digital broadcasts. ATV: Analogue broadcasts. DTV: Digital broadcasts. DTV + ATV: Digital and analogue broadcasts. CADTV+ATV: Cable and analogue broadcasts. SADTV: Satellite broadcasts.

SADTV + ATV: Satellite and analogue broadcasts. Selecting the TV location. Home Store 5 Press ?/? to select where you will use this TV, and then press OK. ?HOME: For domestic use. ?STORE: DYNAMIC mode is predetermined.

If the Position and align the antenna so that the maximum possible values for ?Signal Strength? and ?Signal Quality? are obtained. NOTE ? The values of ?Signal Strength? and ?Signal Quality? indicate when to check the appropriate alignment of the antenna. 9 Watching TV Daily operation Switching on/off Turning on/off the power Press a on the TV to switch it on. Switch it off by pressing a on the TV. NOTE ? When turning off the power using a on the TV, EPG data will be lost. ? The terminal layout may differ depending on the model. Selecting an external video source Once the connection is made, press b to display the ?Source List? screen, and then press a/b to switch over to the appropriate external source with OK. Selecting audio language E DTV/CADTV/SAT mode: Each time you press 2 the audio language switches between audio sources available. Standby mode E Switching to standby mode If the TV is switched on (BLUE LED), you can switch it to standby by pressing TVa on the remote control unit. 6 ? ? NOTE The audio mode screen disappears in three seconds.

Selectable items vary depending on the received broadcasts. E Switching on from standby From standby (RED LED), press TVa on the remote control unit. FAV E ATV mode: Each time you press 2, the mode switches as shown in the following tables. NICAM TV broadcasts selection Selectable items NICAM STEREO, MONO NICAM CH A, NICAM CH B, NICAM CH AB, MONO NICAM MONO, MONO A2 TV broadcasts selection Signal Selectable items Stereo STEREO, MONO Bilingual CH A, CH B, CH AB Monaural MONO Signal Stereo Bilingual Monaural TV indicator status LED indicator Off Blue Red Violet Status Power off Power on Standby StandBy with USB REC programmed NOTE NOTE ? ? ? If you are not going to use this TV for a long period of time, be sure to remove the AC cord from the AC outlet. A small amount of electric power is still consumed even when a is turned off. When no signal is received, the audio mode will display ?MONO?. Switching subtitle languages E DTV/CADTV/SAT mode: Press SUBTITLES [button to change between different languages available, or to enabled/disabled the subtitles. Switching between digital, satellite and analogue broadcasts E Press ?ATV?, ?DTV?, "SAT" or "RADIO" to change between modes. FAV 6 USB REC Changing channels With Pr/s: With 0?9: E ATV mode: The available subtitles according to the broadcasting will be enabled or disabled by pressing the SUBTITLES [key. 10 Watching TV EPG EPG is a programme list that is displayed on the screen. With the EPG, you can check the schedule of digital channels, view detailed information about it, tune to an event currently on-air and set a timer for future events. Selecting a programme using EPG Basic Operation The illustrations on this page are explained using three digit services. E Display/Close the EPG screen Press EPG. U 2 1 S V T E Select a program 6 3 5 4 1 Select the time span -Press c/d to select the time span you want to search, press OK. ? Continue to press d to display programs in the next time span.

2 Select the desired program -Press a/b to select the desired program, press OK. -Press END to exit of EPG. ? If a or b are displayed on the left of the programs, continue to press a/b to display next or previous screen. Other EPG functions 3 Revise the program information 1 Press ?/?/?/? to select the program you want to revise. 2 Press ?p.

Program information 5 ?Reminder list? function 1 Press the YELLOW key to visualize all programmed reminders. 2 Press ?/?/?/? to select a reminder and then press the RED key to delete it. 3 Press p to return to EPG. 4 ?Reminder? function 1 Select the broadcasting emitting the program which you want to remember. 2 Press the BLUE key on the remote control. 3 With ?/?/?/? select Mode, Hour, Minute, Day and Month which you want the program to be remembered. Press OK. 6 ?Record? function Press the USB REC key (Remote Control) to setup the recording parameters. See ?Recording with timer? on page 34. 11 Watching TV Teletext What is Teletext? Teletext broadcasts pages of information and entertainment to specially equipped TV.

Your TV receives teletext signals broadcast by a TV network, and decodes them into graphical format for viewing. News, weather and sports information, stock exchange prices and programme previews are among the many services available. Buttons for teletext operations Buttons Pr/s Colour (R/G/ Y/B) Description Increase or decrease the page number. Select a group or block of pages displayed in the coloured brackets at the bottom of the screen by pressing the corresponding Colour (R/G/Y/B) on the remote control unit.

Directly select any page from 100 to 899 by using the 0?9 numeric buttons. Switch the teletext image to Top, Bottom or Full. Reveal or hide hidden information such as an answer to a quiz. Stop updating teletext pages automatically or release the hold mode. Display the subtitle or exit the subtitle screen. ? Subtitles will not be displayed when the service does not contain subtitle information.

TXT mode: Reveal or hide subpages. ? ? button: Move to the previous subpage. ? ? button: Move to the following subpage. ? OK button: shows a menu with two user controls (size and index). ? Yellow button: Pressing one time, upper half of the screen is shown.

Pressing a second time, the bottom half of the screen is shown. Pressing a third time, page returns to normal size. ? Blue button: shows the index page. When OK button is pressed while the menu is on the screen, it disappears. Note that with this menu on the screen the linked pages cannot be selected.

TV mode: Display the time. 0?9 v (Top/ Bottom/Full) k (Reveal hidden Teletext) 3 (Freeze/ Hold) [(Subtitle for Teletext) Turning Teletext on/off 1 2 Select a TV channel or external source providing a teletext programme. Press m to display the Teletext. ? Many stations use the TOP operating system, while some use FLOF (e.g. CNN). Your TV supports both these systems. The pages are divided into topic groups and topics. After switching on the teletext, up to 1.000 pages are stored for fast access.

? Each time you press m, the screen switches as shown below. ? If you select a programme with no teletext signal, ?No Teletext available? displays. ? The same message displays during other modes if no teletext signal is available. 1 (Subpage) Teletext Teletext NOTE ? Teletext will not work if the selected signal type is RGB. Using the MHEG-5 application (UK only) Some services bring you programmes with the MHEG application encoded, letting you experience DTV/ CADTV interactively. When provided, the MHEG-5 application will start when you press m. NOTE ? MHEG may not be displayed in 3D mode. 12 Connecting external devices E Before connecting ...

? Be sure to turn off the TV and any devices before making any connections. ? Firmly connect a cable to a terminal or terminals. ? Carefully read the operation manual of each external device for possible connection types. This also helps you get the best possible audiovisual quality to maximise the potential of the TV and the connected device. Introduction to connections The TV is equipped with the terminals as shown below.

Find the cable corresponding the TV?s terminal and connect the device. NOTE ? The cables illustrated in pages 13, 14 and 15 are commercially available items. Audio device (Page 15) Audio cable Audio cable HDMI 4 SCART (AV/RGB/S-VIDEO) Pr Pb SERVICE VIDEO Audio cable L AUDIO Video recording device (Pages 14 and 15) Y R SCART cable Components cable Game console or camcorder (Page 14) Audio cable AV cable HDMI-certified cable HDMI 1 (ARC) HDMI 2 HDMI 3 HDMI / PC ANALOG AUDIO INPUT PC IN DIGITAL AUDIO OUTPUT USB (WIFI) HDMI device (Page 14) HDMI-certified cable DVI/HDMI Cable 3.5 mm stereo mini jack cable 13 Connecting external devices HDMI connection Example of connectable devices ? DVD player/recorder ? Blu-ray player/recorder ? Game console Y PB (CB) PR (CR) Component connection Example of connectable devices ? VCR ? DVD player/recorder ? Blu-ray player/recorder The HDMI connections permit digital video and audio transmission via a connection cable from a player/ recorder. The digital picture and sound data are transmitted without data compression and therefore lose none of their quality.

Analogue/digital conversion is no longer necessary in the connected devices, which also would result in quality losses. RCA / 3.5 mm stereo mini jack cable HDMI / PC ANALOG AUDIO INPUT You will enjoy accurate colour reproduction and high quality images through the INPUT COMPONENTS / AV terminal when connecting a DVD player/recorder or other device. L AUDIO R Pr Pb Y Audio cable HDMI 1 (ARC) HDMI 2 HDMI 3 DVI/HDMI cable HDMI-certified cable Components cable P R DVI/HDMI conversion Using a cable DVI/HDMI, the digital signals of a DVD video, can be also reproduced through a compatible HDMI connection. The sound should be supplied additionally. ? On connecting a DVI/HDMI cable to the HDMI terminal, may be the picture does not become visualized clearly. ? Both HDMI and DVI use the same method of HDCP protection against copy. ? For connecting a DVI cable, a commercially available adaptor (not supplied) is necessary. VIDEO connection Example of connectable devices ? VCR ? DVD player/recorder ? Blu-ray player/recorder ? Game console ? Camcorder You can use the COMPONENTS/AV terminal when connecting to a game console, camcorder, a DVD player / recorder or other device. NOTE ? ? Depending on the type of HDMI cable used, it may appear a video noise.

Be sure to use a certified HDMI cable. On reproducing HDMI picture, the best format is automatically detected and adjusted for the picture. AV cable VIDEO L AUDIO R Compatible video signal 576i, 576p, 480i, 480p, 1080i, 720p, 1080p 14 Connecting external devices SCART connection Example of connectable devices ? VCR ? Decoder ? DVD player/recorder Speaker/amplifier connector Example of connectable devices ? Connecting an amplifier with digital audio input Connect an amplifier with external speakers as shown below. Optical Audio cable SCART cable SCART (AV/RGB/S-VIDEO) DIGITAL AUDIO OUTPUT Decoder NOTE Amplifier with optical digital audio input ? In cases when the decoder needs to receive a signal from the TV, make sure to select the appropriate input terminal to which the decoder is connected in ?Source List? (Page 10). ? After connecting Digital audio output setting After connecting an amplifier with optical digital audio input as shown, you should set an audio output format compatible with the programme you are watching or the device connected. Go to ?MENU? > ?Sound? > ?SPDIF Mode? > select ?PCM? or ?Dolby Digital?. NOTE ? When you set this to ?Dolby Digital?, and you receive the Dolby Digital or Dolby Digital Plus audio formats, Dolby Digital audio is output. Otherwise, PCM audio is output. When you set this to ?PCM?, PCM audio is output no matter what audio formats you receive. 15 Connecting a PC PC connection HDMI (DVI) Connection HDMI 1, 2, 3 or 4 PC HDMI 1 (ARC) HDMI 2 HDMI 3 HDMI / PC ANALOG AUDIO INPUT DVI/VGA Conversion cable PC PC IN DIGITAL AUDIO OUTPUT USB (WIFI) HDMI-certified cable HDMI 4 3,5 mm stereo mini jack cable HDMI PC DVI/HDMI Cable NOTE ? When using the PC-IN terminal is necessary to connect a audio cable. HDMI 1 (ARC) HDMI 2 HDMI 3 3,5 mm stereo mini jack cable HDMI / PC ANALOG AUDIO INPUT Selecting the picture size You can select the picture size. 1 2 Press MENU on the remote control,then press OK. Press ? key to select ?Advanced Video?, then press OK. Press ? key to select ?Aspect ratio?, then press OK.

Press ? key to select the desired item, then press OK.

Example ? After connection ? If after connecting a PC to the TV through a HDMI cable, the audio does not run, connect a mini stereo connector of 3.5mm between TV and PC as indicated in the previous drawing. ? When a PC is connected to the TV with a DVI cable, it will be necessary to connect a mini stereo connector of 3.5mm of the TV to PC as indicated in the previous drawing. 3 4 Analogue Connection Normal Full VGA cable PC Item Auto Full Dot by Dot Picture size is adjusted automatically An image fully ?lls the screen Displays an image with the same number of pixels on the screen HDMI 1 (ARC) HDMI 2 HDMI 3 HDMI / PC ANALOG AUDIO INPUT PC IN DIGITAL AUDIO OUTPUT USB (WIFI) NOTE 3,5 mm stereo mini jack cable ? ? ? ? You can also select an item by pressing f on the remote control unit.

Connect the PC before making adjustments. Selectable picture size may vary with input signal type. The ?Aspect ratio? adjustment is only available for analogue signals through the ?PC IN? terminal. 16 Connecting a PC 1Adjusting the PC image 1automatically This function enables adjusted to its best analogue terminals of with a commercially cable, etc. 1. 2. 3. 4. 5. 6.

the screen to be automatically possible condition when the the TV and PC are connected available DVI/VGA conversion 6. 7. Press ?/? to select the specific adjustment item. Press ?/? to adjust the item to the desired position. Item H-Pos. V-Pos. Phase Clock Auto Adjustment Reset Settings Centres the image by moving it to the left or right. Centres the image by moving it up or down. Adjusts when characters have low contrast or when the image ?ickers. Adjusts when the image ?ickers with vertical stripes Adjusts automatically the image Return to the original image.

Press b to select PC-RGB from Source List, and then press OK. Press MENU key. Press ? key to select ?Settings? and press OK. Press ? key to select ?Input Settings? and press OK. Press ? key to select ?PC Settings? and press OK.

Press ? key to select ?Auto Adjustment? and press OK. When connect a PC and select PC-RGB source, the ?Auto adjustment? is executed automatically. ?Auto adjustment? may fail if the PC image has low resolution, has unclear (black) edges, or is moved while executing ?Auto adjustment?. Be sure to connect the PC to the TV and switch it on before starting ?Auto adjustment?. ?Auto adjustment? can be executed only when inputting analogue signals through the ?PC IN? terminal.

NOTE NOTE ? ? ? ? ? ? ? The ?PC Settings? options in the ?Settings? menu can be adjusted only when inputting analogue signals through the ?PC IN? terminal. Depending of resolution, the vertical/horizontal manual range can be different. PC compatibility chart Resolution Horizontal Frequency 31,5 kHz 31,47 kHz 37,9 kHz 48,4 kHz 47,7 kHz 64,0 kHz 65,3 kHz 75,0 kHz 67,5 kHz Vertical Frequency 60 Hz 70 Hz 60 Hz 60 Hz 60 Hz 60 Hz 60 Hz 60 Hz 60 Hz Adjusting the PC image manually Ordinarily you can easily adjust the picture as necessary to change image position using ?Auto Adjustment?. In some cases, however, manual adjustment is needed to optimise the image. 1. 2. 3. 4. 5. Press b to select PC-RGB from Source List, and then press OK.

Press MENU key. Press ? key to select ?Settings? and press OK. Press ? key to select ?Input Settings? and press OK. Press ? key to select ?PC Settings? and press OK. VGA VGA SVGA XGA WXGA SXGA SXGA+ UXGA 1080p 640 g 480 720 g 400 800 g 600 1.024 g 768 1.360 g 768 1.280 g 1.024 1.400 g 1. 050 1.600 g 1.200 1.920 g 1.080 VGA, SVGA, XGA, WXGA, SXGA, SXGA+ and UXGA are registered trademarks of International Business Machines Corporation.

NOTE ? This TV has only limited PC compatibility, correct operation can only be guaranteed if the video card conforms exactly to the VESA 60 Hz standard. Any variations from this standard may result in picture distortions. 17 Menu operation What is the menu? ? You need to call up the OSD to perform settings for the TV. The OSD for the settings is called "MENU". ? The "MENU" enables various settings and adjustments.
? The "MENU" can be operated with the remote control unit and with the TV panel control keys. Common operations 1 FAV A Display the menu screen USB REC 2 Select an item Press a/b/c/d to select/adjust the desired menu, and adjust the item to the desired level, and then press OK. Press MENU to return to the previous "MENU" page. Press MENU and the ?MENU? screen displays. E Selecting in the menu U S V T E Selecting options 3 Exit the menu screen The operation will exit the "MENU" screen if you press END before it is completed. NOTE ? ? ? "MENU" options differ in the selected input modes, but the operating procedures are the same. The screens in the operation manual are for explanation purposes (some are enlarged, others cropped) and may vary slightly from the actual screens. Items in darker grey cannot be selected. Operation without a remote control unit (with the TV panel control keys) This function is useful when there is no remote control unit within your reach. 1 Press MENU to display initial MENU screen, or to return to previous MENU screen.

2 Press CHr/s instead of a/b or ik/l instead of c/d to select the item. 3 Press b to open a new MENU level or accept the setting NOTE About the Guide Display The Guide Display at the top of the screen shows the menu bar. 1 Picture 2 Audio 3 Multimedia 4 Time 5 Lock 6 Channels 7 Settings The Guide Display at the bottom of the screen shows the operations with the OSD. The bar above is an operational guide for the remote control unit. The bar will change in accordance with each menu setting screen. ? The ?MENU? screen will disappear if left unattended for several seconds. 18 Basic adjustment Picture settings Selected setting Aspect Ratio Colour Temperature Noise Reduction* Dynamic backlight ? Button ? Button Changes between different picture sizes Adjusts the colour temperature to give the best white image: cool, normal, warm. Improves picture quality (choose among different options) Adjusts screen brightness based on image content. Automatically detects a film-based source and recreates each still frame for high-definition picture quality. Reducing motion blur. Advanced Video Film mode Picture Picture adjustments When the Picture Mode is set to ?User?, the picture can be adjusted according to your preferences. See the following setting table. Adjustments options Selected setting Brightness Contrast Colour Tint Sharpness Backlight Advanced Video ? Button Brightness goes down Contrast goes down Colour intensity goes down Skin tones become purplish Soften details The screen dims ? Button Brightness goes up Contrast goes up Colour intensity goes up Skin tones become greenish Emphasize details The screen brightens signal. Fine Motion Advanced * This function may be not available in some types of input AV MODE ?AV MODE? gives you several viewing options to choose from to best match the system environment, which can vary due to factors like room-brightness, type of programme watched or the type of image input from external equipment.

1 Press AV MODE.

2 Every time AV MODE is pressed the TV changes the mode as follows: STANDARD ? SOFT ? ECO ? CINEMA ? USER ? DYNAMIC 6 This TV provides various functions for optimizing the picture quality. See the following table. 19 Basic adjustment Audio settings Multimedia Your home network (*) (*) The name of your home network will appear here once detected. Multimedia Sound Multimedia menu ? iPlayer (Only LE731 for UK) Internet television and radio service for the BBC. ? YouTube Access to YouTube services directly.

This option is available only when the TV is connected to Internet. ? Media Player Access to Multimedia Menu. (See page 27) ? Media Player Settings This TV allows play video on demand (DivX VOD). You need to register the TV before playing the DivX content. This is the function to confirm your registration code. ? DivX VOD Register To activate this option you need to register the code at www.divx.com/vod, download the VOD log file and reproduce it in TV. ? DivX VOD Deregister Displays the deactivation code necessary to write off this TV at www.divx.

com/vod. ? Video Preview Setting this option to On, allows you preview the video that you select in a little window in the screen. ? USB REC ? USB REC Manual programming Allows you to schedule the program recorder. ? USB REC Programmed recording list Allows you to visualize all scheduled recordings. ? USB REC Recorded list Allows you to see the recorded program list. ? USB REC settings Allows to select disk, disk setup, speed test and disk space reserved for this function. For USB REC detailed operation see page 35. ? Your home network Your home network will be available in the Multimedia Menu in case it is connected to the TV set through the Ethernet terminal or via Wi-Fi (Optional Accessory, see page 5). See "Connected TV" for detailed operation (page 31). Sound adjustments When the Sound Mode is set to ?User?, the sound can be adjusted according to your preferences.

See the following setting table. Adjustments options Selected setting Balance Treble Bass Surround Sound Auto Volume SPDIF Mode Clear voice Bass Enhancer ? Button ? Button Increase audio from Increase audio from the left speaker the right speaker Reduce treble Reduce bass Off Off (PCM) Activates digital audio output Off Off Increase treble Increase bass On On Dolby Digital On On ? Sound Mode Select your desired setting. The available options are: STANDARD?MUSIC?MOVIE?SPORTS?USER6 ? Surround Sound This function allows you to enjoy surround sound. ? Auto Volume Reduces sudden volume changes, for example, during commercials or when switching from one channel to another. ? SPDIF Mode Digital audio output.

? Clear voice This function emphasises speech against background noise for greater clarity. ? Bass Enhancer This function allows you to enjoy bass-enhancer. ? Headphones Volume Headphones volume control. 20 Basic adjustment Time settings Lock settings Lock Lock programs This adjustment allows you to set or to display the following functions: Clock, Off/On Timer and Sleep Timer. This function allows you to use a password to lock certain programs and adjustments.

The password is always needed to access to this menu (by default, the password is 3001.) ? Parental guidance This function allows you to restrict DTV/CADTV/ SADTV (only LE732 model) programs depending on the age classification. The information about classification is provided by the broadcasting station. ? Set password Allows you to change the password. Press OK, enter the new password. To confirm, go out from Lock menu. ? Block program The password is needed before locking one program. 1 Select the program or programs you want to lock and press GREEN button. A padlock appears next to the locked channel in the channel list. 2 Press End to exit.

This option enters your selection in a locked channels list. NOTE ? To prevent the channel search, when one program is locked, the channel menu is locked too. ? To view a locked channel, you must enter the password. When you select a locked channel a password prompt message pops up. ? You must repeat the previous steps to unlock one locked program. Time Time adjustments ? Clock This function allows you to display the clock information (day / month / year / hour/ minute). The time and the date can?t be modified in this option. ? Off timer Allows you to set a time when the TV automatically enters in standby mode. ? On timer Allows you to set the time when the TV must switch on. ? Sleep timer Allows you to setup the automatic Switch Off for: 10min.

, 20min., 30min., 60min., 90min., 120min.

, 180min. and 240min. NOTE ? Select ?Off? to cancel the sleep timer. ? When the time has been set, countdown starts automatically. ? The last minute is displayed second to second.

? No operation off Switches the TV off when no key is pressed for 3 hours. ? No signal off When this function is activated the TV enters in standby mode automatically if there is no signal input during 10 minutes. In PC mode, when there is no signal input, the TV goes into standby mode after 15 seconds. ? Time zone Allows you to setup the time zone. ? Summer time Allows you to change automatically to summer time (auto, off, on.) 21 Basic adjustment Channel settings Searching for cable broadcasts ? CADTV Auto Tuning Allows you to add cable services. 1 With ?/?/?/? keys select Channel, then select Auto Tuning and press OK. 2 With ?/?/?/? keys select Country and Tuner type (CADTV). 3 Go to Start Search and press OK. Channel Channel adjustments Allows to reconfigure the channels after initial auto installation has been completed.

? CADTV Manual Tuning After the CADTV Auto tuning, you may add new cable services manually. 1 With ?/?/?/? keys select Channel and CADTV Manual tuning and press OK. Install channels ? Auto tuning This function allows you to select the country and automatically adjusts the channels for digital, cable, satellite (Only LE732 model series) or analogue individually. ? DTV manual tuning Allows you to tune digital channels manually. ? CADTV manual tuning Allows you to add new cable services manually. This setting appears after searching for cable broadcasts. ? SADTV manual tuning (Only LE732 model series) Allows you to add new satellite services manually. This setting appears after searching for satellite broadcasts. See next page. ? ATV manual tuning Allows you to tune in analogue channels manually.

? Programme edit Allows you move channels, delete channels, skip channels and to set up a favourite channels list. Select the channel you want to reorganize and press ?/?to change between Viewable, Skipped (to ignore it) and Favorite (to add it to favorite list). Press the RED button to delete it, the YELLOW button to move it or GREEN button to rename it. NOTE 2 Select manually Frequency and Symbol rate by using numerical keys (Remote Control). 3 With ?/? keys select Modulation and press OK.

@@@@@? Signal information Shows the signal power and quality. ? @@? Auto channel number Automatic channel sorting. ? Additional search Use this menu to add new services automatically.

@@SADTV Auto tuning Allows you to tune satellite services. 1 Press MENU on the remote control. With ?/? keys select Channel, then select Auto Tuning and press OK. 2 With ?/?/?/? keys select Tuner type ? SADTV. 3 Go to Start Search and press OK. @@1 Select Single Satellite and then press OK. 2 Press ? to select "Satellite 1" and press OK. @@The automatic search will start. ? @@Press MENU on the remote control. With ? key select SADTV manual Tuning and press OK. Select Satellite Set. You can choose between the following options: ? @@? Frequency (MHz) Introduce the transponder frequency in MHz.

? Symbol rate Introduce the symbol rate. ? @@Select Start Search and press OK to start searching. ? @@Press ? to select "Satellite Edit" and then press OK. 3 Select Satellite Name and press OK. Enter the satellite name using software keyboard. 4 Select LNB Type and choose between Universal or User. If you choose Universal the other settings remains disabled (grey). If you choose "User" the following settings will be enabled: ? Low LO freq. Allows you to change default low frequency. ? High LO freq.

Allows you to change default high frecuency. ? Polarization Depending on the broadcaster characteristics choose between Vertical&Horizontal (search for in both polarities), Vertical or Horizontal (search for in one polarity) or LNB OFF (LNB power off). ? @@Press ? @@@(See page 33). @@This function is available only for DTV broadcasts. @@@@@? ? Settings Settings menu ? @@? @@? Audio Languages Press a/b to select the audio language. ? Network Settings Internet setup. (See page 31). ? Product information Shows hardware and software version. ? @@@@@@? Subtitle Mode Normal / Hard of Hearing. ? Subtitle Language Primary / Secondary.

? @@@@Input Settings Allows you to adjust individual settings: ? Input Labels Allows associate each input source with a description. ? @@(See page 29) ? PC Settings Allows to adjust the picture when a PC is connected. (See page 16) ? @@24 ? @@? OAD scan Checks immediately if there is new software. ? @@Follow the on-screen instruction. NOTE: ? @@2 Insert the memory in any USB side TV set socket. 3 The next message appear: Basic adjustment 4 Press ? to select Yes and press OK. The software update will start ?The updated percentage appears. @@@@? @@2 Use ?/? to select the channel you want to watch and press OK. Channel information display (DTV/CADTV only) You can display the channel information that you are watching at this moment by pressing p on the remote control unit. ? ? ? ? ? ? Information that appears on the screen: ? Program number ? Program name ? Age classification ? Audio ? Available Services: Radio / Teletext / Subtitles / Encripted ??Information about the program which is being broadcast CLEARING THE PIN If you lose or forget your PIN, you can clear the PIN following these steps: 1 Go to MENU?LOCK.

2 Enter ?3001? to cancel out the current PIN. The current PIN is reset to ?3001?. 25 Useful viewing functions Selecting the picture format Selecting the picture format manually You can select the picture format. The selected picture format varies depending on the type of signal received. 1 Press f on the remote control unit to change between different kinds of pictures. Setting when using external devices Source list For selecting the input type of external equipment. ? If no (colour) image is displayed, try changing to another signal type. ? Check the operations manual of the external equipment for the signal type. Sizes for SD Signal (Standard Definition) Normal 4:3 : Keeps the original aspect ratio in a full screen display. Zoom 14:9 : For 14:9 letterbox pictures.

A thin side bar appears on each side, and you may also see bars on the top and bottom with some programs. Panorama: In this mode, picture is stretched toward each side of the screen. The picture may appear similar to ?Full? depending on broadcast signals. Full: For 16:9 squeeze pictures. Cinema 16:9: For 16:9 letterbox pictures.

Bars may appear on the top and bottom with some programs. Cinema 14:9: For 14:9 letterbox pictures. Bars may appear on the top and bottom with some programs. Auto: The TV selects the picture size automatically. Connecting a USB device (Media Player) Connect an USB device to the TV as shown below. ? Depending on the USB device, the TV may not be able to recognise the contained data. ? Use only alphanumeric characters for naming files. Sizes for HD Signal (High Definition) HDMI Full: Overscan image. Cuts out all sides of the picture. Underscan: Displays a high definition picture adjusted perfectly. Picture noise may appear on the sides of picture with some programs. Underscan mode for 1080(i/p) video signals is same as Dot by Dot mode. Auto: this mode allows the TV to change between different picture sizes automatically. ? File names over 80 characters (may vary depending on character set) may not be displayed. ? Do not disconnect a USB device or memory card from the TV while transferring files, using the slide show function, when a screen is switching to another or before you exit ?MEDIA PLAYER? from the ?Source List? menu.

? Compatibility with USB hard disc connection. ? Do not connect and disconnect a USB device from the TV repeatedly. NOTE ? Some items do not appear depending on the type of received signal. 26 Useful viewing functions Viewing pictures on full screen Buttons for full screen display operation Buttons ?/? Cursor 6 button Blue button Yellow button Red button Description Go to the previous/next photo in the same directory. Go back to the previous screen. Zoom: ?/?/?/? allow to move through the pictures when zoom is activated. Rotates 90 the photo on screen. Slide show. MEDIA PLAYER function After selecting Media Player, the TV loads USB device files, and shows the following screen: Music mode Reproduces MP3 music files. 1 Select Music mode and press OK. 2 Select the files you want to reproduce with ?/? ?/? buttons and press OK to start the reproduction. @@? You can stop/restart the reproduction pressing OK. Buttons for music reproduction Buttons ?/? Cursor ?/? @@@@(x1) Reproduce the selected file indefinitely. (x2) Reproduce all the files on the folder indefinitely. Play/Pause reproduction.

1 Pressing ?/? @@Press OK to select the option you want to reproduce. 2 Press ?/?/?/? @@Several kinds of reproduction are possible. 1 Select Picture mode and press OK. 2 Select the file you want to display on full screen with ?/? ?/? buttons and press OK to start the viewing. ? @@1 Select Video mode and press OK.

2 Select the files you want to reproduce with ?/? ?/? buttons and press OK to start the reproduction. 3 Press OK to stop / restart the reproduction. 4 Press END to exit the Video mode. Buttons for video reproduction mode Buttons ?/? Cursor ?/? @@Backward / Fast forward Go back to the previous screen. Allows you to repeat a fragment of a film indefinitely. @@The third keystroke restarts the normal reproduction. Allows you to backward or forward until a point in the movie. Introduce ?hh:mm:ss?, select "Seek" and press OK.

Play / Pause the reproduction. Shows the menu to adjust the video image during reproduction.

Performs ZOOM operation in films and videos. @@@@? ? ? ? ? ? ? Progressive format jpeg files are not supported. Music files in USB 1.1 devices may not be played properly. Operation using USB hubs is not guaranteed. @@Cables used to prolong the USB device must be certified as USB 2.0. In USB devices, video files may not be played properly if speed is not enough. Play non-standard encoded files is not guaranteed. The file extension does not uniquely specify a file's contents.

It?s very common for Internet files to have a mismatch between the file extension and its contents; for this reason some files could not be played in this TV set. Power save settings This function enables you to automatically reduce the backlight brightness in order to decrease the power consumption and increase the backlight life span. In menu Picture ? Picture Mode select the ECO setting. 28 HDMI devices Controlling HDMI devices using HDMI CEC E What is HDMI CEC? Using the HDMI CEC protocol, you can interactively operate compatible system devices (AV amplifier, DVD player/recorder, Blu-ray player/recorder) using a single remote control unit. NOTE ? HDMI CEC does not work while using USB REC functions.

HDMI 4 HDMI CEC connection First connect the speaker system or a player/recorder that supports the HDMI CEC protocol. Connecting a player/recorder via the speaker system E What you can do with HDMI CEC HDMI 1 (ARC) HDMI 2 HDMI 3 ? ? ? DIGITAL AUDIO OUTPUT ? One touch recording (DTV/SAT only) You do not have to search for the remote control unit of your recording device. Press the REC E or REC STOP H buttons to start/stop recording what you see on the recorder. ? One touch play When the TV is in standby mode, it will automatically turn on and play back the image from the HDMI source. Player / Recorder Speaker system ? Single remote control operation HDMI CEC automatically recognises connected HDMI devices and you can control the TV and the devices as if using an universal remote control unit.

??HDMI-certified cable (commercially available) ??Optical audio cable (commercially available) NOTE ? Operating title list of external devices In addition to displaying the TV?s own timer list (Page 35), you can also call up the external player?s top menu or player?s / recorder?s title list provided that the devices support HDMI CEC. ? ? ? Multiple control of HDMI devices You can select which HDMI device to operate using the ?Device List? menu. NOTE ? Refer to the operation manual of the device to be connected for further details. After unplugging connection cables or changing the connection pattern, turn on the power of the TV after all relevant devices power have been turned on. Change the external input source by pressing b, select the appropriate external source and verify the audiovisual output. The cables illustrated in the following explanation are commercially available items. ? ? ? ? ? ? When you use HDMI CEC, make sure to use a certified HDMI cable. Point the remote control unit toward the TV, not to the connected HDMI device. Video noise may occur depending on the type of HDMI cable used. Make sure to use a certified HDMI cable.

Up to three HDMI recording devices, one AV amplifier and three players can be connected using this system. These operations affect the HDMI device selected as the current external source. If the device does not operate, turn on the device and select the appropriate external source using b. When you insert/remove HDMI cables or change connections, turn on all connected HDMI devices before turning on the TV. Confirm that picture and audio are correctly displayed/output by selecting ?HDMI 1?, ?HDMI 2?, ?HDMI 3? or ?HDMI 4? from the ?INPUT? menu. 29 HDMI devices Connecting a player/recorder only Connection for using ?Speaker Output? You can choose to listen to the TV sound only from the speaker system. 1. Set to On and press 6. The sound from the TV speaker is silenced and only the sound from the speaker system is audible. 2.

Set to Off and press 6. Speaker system is silenced and TV speaker is audible. You need to use ARC-compatible cables/devices and connect to the HDMI 1 terminal to activate this function. NOTE ? When you use "Speaker Output" make sure to use a HDMI cable 1.4 or upper.

HDMI 4 HDMI 1 (ARC) HDMI 2 HDMI 3 ? Player/Recorder ? HDMI-certified cable (commercially available) HDMI CEC (Consumer Electronics Control) menu Basic operation Go to ?Menu? > ?Settings? > "Input Settings" > ?HDMI CEC? and select the menu you want to set. Device List If multiple HDMI devices are connected in a daisy chain, you can specify which device to control here. Press a/b to select ?Model select?, and then press OK. The HDMI device changes every time you press OK. HDMI CEC control Set to ?On? to enable HDMI CEC functions.

Device Scan Search all HDMI devices connected to the TV. Auto TV Power On If this is activated, the one touch play function is enabled. While the TV is in standby mode, it automatically turns on and plays back the image from the HDMI source. NOTE ? The factory default for this item is ?Off?. Operating a HDMI CEC device HDMI CEC allows you to operate the HDMI-connected device with a single remote control unit. USB REC Auto Link Power Off If this function is set to "On", is possible to power off all HDMI devices connected in a daisy chain. 1 2 Speaker Output (Audio Return Channel) If this function is set to ?On?, the TV can send audio data for video content shown on the TV to a connected audio device to HDMI 1 with just one ARC-compatible cable (HDMI 1.4 or upper). Using this function eliminates the need to use a separate digital or analogue audio cable. NOTE Press I to start playback of a title.

Press J to fast forward. ? Press G to reverse. ? Press REC E to start recording. ? Press REC STOP H to stop recording. ? Press H to stop. ? Press F to pause. ? Press SOURCE a to turn the HDMIconnected device on/off. ? ARC is only available in HDMI 1 terminal. 30 Connected TV What is Connected TV? Connected TV set to play easily digital media contents coming from the Network (Internet or Home). Connected TV offers up to two different modes: E Internet services support (BBC iPlayer (Only LE731 for UK), YouTube, and HbbTV).

E Media Streaming support for existing DLNA servers on your Home Network. In fact, user can play movies, listen to music or view pictures in the easiest way, even from playlist ?les (Media Player). Connected TV provides a variety of services for each country. NOTE NOTE ? ? ? ? ? ? ? ? ? ? ? Because Connected TV is an online system, it can be modi?ed over time to better serve its purpose. Some Connected TV services may be added, changed or discontinued after some time.

You cannot download and save neither ?les nor install plugins. Home Media (DLNA) requires external streaming media software installed on a PC, inside the HOME Network, that is not included with Connected TV.

Home Media (DLNA) server software as Windows Media Player 11 (Windows Vista included) or Windows Media Player 12 (Windows 7 included), TVersity (www.tversity. com), Nero Media Home (www.
nero.com), or Twonky Media Manager (www.twonky.com) are preferred but other can be used also. Visit the DLNA website (www.dlna.org) to see the certi?ed media server list. Follow the server software?s user manual for setup, share and stream media contents. Home Media (DLNA) (Video, Music and Photo) data is organized in folders depending on the Server hierarchy; options such as Artist, Genre, Composer, Ratings, Playlist or Watch Folders may be present for sorting content, but can be different depending of the selected Media Server. The ?Play To? function of some PC Media Players may result in very compressed video quality.

For best video quality, please use the USB Media Player function of the TV. ? If you choose a wired connection to the router, you need an ETHERNET cable (not included, commercially available). If you do not have a broadband internet connection, consult the store where you purchased your TV or ask your internet service provider or telephone company. An ETHERNET and wireless connection cannot be used at the same time. Use only one of the connection types. A wireless LAN connection and performance cannot be guaranteed for all residential environments. In the following cases, the wireless LAN signal may be poor or drop, or the connection speed may become slower. - When used in buildings made with concrete, reinforced steel, or metal. - When placed near objects that obstruct the signal. - When used with other wireless devices that emit the same frequency.
- When used in the vicinity of microwave ovens and other devices that emit a magnetic ?eld, electrostatic charge, or electromagnetic interference. A stable connection speed is required to play back streaming content. Use an ETHERNET connection if the wireless LAN speed is unstable. Wired installation Use an ETHERNET cable to connect the ETHERNET terminal on the TV to your broadcast router as shown below. This is recommended when enjoying services which require stable connection speeds, such as streaming media.
? Wired connection overview ? DISCLAIMERS SHARP corporation bears no responsibility regarding the content and quality of the content provided by the content service provider. Internet setup Connecting to the internet To enjoy Connected TV, you need to connect the TV to a router with a high speed connection to the internet. The TV connection to the router can either be wired or wireless. To access to the TV internet con?guration go to Settings?Network setup. The next screen is shown: ? PC (Home Media Server) ? Router (commercially available) ? ETHERNET cable (commercially available) ? Network (Internet) ? How to connect R o u te r E T H E R N E T te r m in a l LAN ??ETHERNET cable 1 Switch on the router (commercially available).
Refer to the router?s operation manual for switching on. 31 Connected TV 2 Connect the ETHERNET terminal on the TV to the router (commercially available) with an ETHERNET cable (commercially available). 3 Go to SETTINGS >?Network settings?> ?Network type?. 4 Press OK and ?/? to select ?Wired?, and then press OK. The wired connection will be automatically established. To change the settings manually go to ?Advanced Network Setup?> IP Adress Setup> Off, now you can introduce the settings manually. 5 Select "Wireless setup". There are three ways to connect by wireless the TV to a network: Wireless installation Use the SHARP (AN-WUD630) USB adapter (sold separately) with the TV. ? Wireless connection overview ? Easy setup 1 Select WPS configuration and press OK. Press ? to select "PBC" and press OK.

2 Press ? to select Start scan and press OK. 3 Press the WPS button on the router/access point (AP). Wait until the connection is established. ? If connection failed, please be sure WPS feature is enabled (See the operation manual of your router/access point(AP) for setup.) ? In case of router/access point does not support WPS, write the encryption key for that network using the software keyboard. See Assisted Setup explanation. ? To establish the connection manually select "PIN", press OK, select Start scan and press OK .Follow the on-screen instructions and the operation manual of the router/access point(AP). ? PC (Home Media Server) ? Wireless LAN router/access point ? Wireless AN-WUD630 LAN USB adapter (sold separately) ? Network (Internet) NOTE ? Assisted setup Shows the network name list (SSID). ? ? ? ? When using the SHARP wireless LAN adapter (sold separately), try to provide as much free space around the device for best performance.
Make sure the firewalls in your network allows access to the TV wireless connection. Operations cannot be guaranteed when used with access points that do not have Wi-Fi certification. A wireless LAN access point is required to connect the TV to the Internet using a wireless LAN. See the operation manual of your access point for setup. 1 Select the network you want to connect.
2 If network is protected, introduce the encryption key using the software keyboard and press Green button. 3 Select Done and press OK. The TV will connects to the network you have selected. ? Manual setup Allows you to establish the wireless connection introducing all data manually. ? Advanced Network Setup Allows you to introduce manually all network setup.
? Network Connection Test Check the connection status ? How to connect NOTE ? ? ? 1 Switch on your router before starting the network installation. 2 Connect the AN-WUD630 USB adapter (sold separately) to the USB Wi-Fi port on the TV. ? Do not use a wireless LAN adapter other than the ANWUD630 Sharp wireless LAN adapter, as operations cannot be guaranteed. ? If your wireless network is secured, have the encryption key ready to enter on screen. ? ? ? Go to ?Settings? >?Network settings?> ?Network type?. 4 Press OK and ?/? to select ?Wireless?, and then press OK. 3 The "Wireless" connection will be automatically selected if the TV detects only the wireless USB adapter. ? To connect your TV to the internet, you must have a broadband internet connection. If you do not have a broadband internet connection, consult the store where you purchased your TV or ask your internet service provider or telephone company. There is no need to enter the security key for subsequent connections to the wireless network.

If your access point is set to a stealth mode (Hidden SSID, that prevents detection by other devices), you may not be able to establish a connection. In this case, disable the stealth mode on the access point. To change wireless LAN connection settings, go to ?Settings? > ?Network Settings?. Any low bandwidth adapter (router, hub, wireless access point,?) will show poor network connection and then, poor streaming quality. It?s recommended 56 Mbps or higher bandwidth for full feature. Working close to other Wireless/Bluetooth network, can appear some trouble using Wi-Fi adapter on the Connected TV.