



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for HITACHI 19LD5550U. You'll find the answers to all your questions on the HITACHI 19LD5550U in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

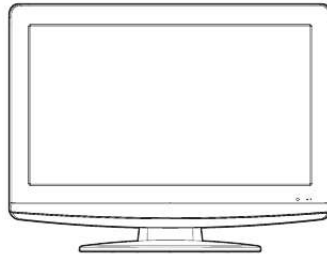
User manual HITACHI 19LD5550U  
User guide HITACHI 19LD5550U  
Operating instructions HITACHI 19LD5550U  
Instructions for use HITACHI 19LD5550U  
Instruction manual HITACHI 19LD5550U

Colour LCD Television

Model Name  
**19LD5550U**  
**22LD5550U**

**HITACHI**  
Inspire the Next

USER'S MANUAL



Trademark of the DVB - Digital Video Broadcasting Project

READ THE INSTRUCTIONS INSIDE CAREFULLY.  
KEEP THIS USER'S MANUAL FOR FUTURE REFERENCE.  
For future reference, record the serial number of your television.  
SERIAL NO. \_\_\_\_\_  
This serial number is located on the rear of the television.

Ver. 1



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**Manual abstract:**

This serial number is located on the rear of the television. Ver. @@@@The crossed out wheelie bin symbol indicates that used batteries should not be disposed of with your normal household waste! A separate collection system for used batteries is in place to allow the correct treatment and recycling in accordance with current legislation. Please contact your local authority for details on collection and recycling schemes in your area. Information for the DVB-T function · Any function relative to the digital television (with the DVB logo) is available only within the country or area where such signals are transmitted.

Verify with the salesman if it is possible to receive a DVB-T signal in the zone where you live. · A DVB-T antenna must be connected for DVB-T reception. ·

Even if the television conforms to the DVB-T specifications, the compatibility to future digital DVB-T transmissions is not guaranteed. · Some digital television functions may not be available in some countries. · The DVB-T system present in this device is FTA (Free to air).

**Waste Disposal Tip** The above mark is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE). The mark indicates the requirement NOT to dispose the equipment including any spent or discarded batteries as unsorted municipal waste, but use the return and collection systems available. If the batteries or accumulators included with this equipment, display the chemical symbol Hg, Cd, or Pb, then it means that the battery has a heavy metal content of more than 0.0005% Mercury, or more than 0.002% Cadmium or more than, 0.

004% Lead. \* The "HD ready" Logo is a trademark of EICTA. \* DVB is a registered trademark of the DVB Project. This logo indicates that the product is compliant with European Digital Broadcasting. 2 Contents Features.

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.. 31 3 Important safety information This unit has been produced according to all current safety regulations. The following safety tips should safeguard users against careless use and the dangers connected with such use. Although this appliance has been carefully manufactured and rigorously checked prior to leaving the factory, as with all electrical appliances it is possible for problems to develop.

If you notice smoke, an excessive build-up of heat or any other unexpected phenomena, you should disconnect the plug from the mains power socket immediately. Ensure that the unit is sufficiently ventilated! Never place next to or underneath curtains! This set should be only be connected to an AC 220-240V / 50Hz mains power supply - do not attempt to connect it to any other type of supply. The socket-outlet must be installed near the equipment and easily accessible. Any repairs must be carried out by qualified service personnel only. Do not open this unit.

*A non-expert attempting to repair the unit could be dangerous and potentially cause a fire hazard. · Keep away from rodents. Rodents (and also cockatiels) enjoy biting into electric flexes. · The animal can cause a short cut (fire hazard!) and receive a fatal electric shock. · Always hold plug when pulling out plug from power mains supply system. Do not pull on flex. The flex can become overloaded and cause a short cut. · Never wet clean. Only use a damp cloth, the same as when cleaning furniture. · Do not submerge in or under water! · Set up unit so that no one is able to trip over the flex.*

*· Only use the unit on a stable, shock-free base in order to avoid any danger from falling. · Take note that toddlers can pull the unit down from the table or cupboard by means of its flex. Children can hurt themselves when doing this. · Do not use the unit near heat sources. The casing and flex could be damaged by the impact of heat. · Watch out for kiddies copying what adults do! Do not stick any objects through the vents! · The vents must remain open! No newspapers or covers should be put on the unit! · The remote control is not a toy! Toddlers could swallow the batteries. If a battery has been swallowed, please seek out a doctor immediately. · The screen is made of glass and can break if damage is done to it. Be careful when collecting sharp-edged glass splitters. · You could be hurt or the unit could be damaged.*

*· If the unit is mounted on the wall, contact the shop where you purchased the unit for advice, and leave the installation work to experts. Incomplete installation work can cause you injuries. · Taking fall-prevention measures - If these measures are not taken, the unit can fall and you could be injured. - Contact the shop where you purchased the unit to obtain full details of the measures. · When a TV stand is used, - Ensure the unit is fully on the stand and placed in the centre.*

*- Do not leave the stand doors open. - You could be hurt as a result of the unit falling or breaking, or your fingers being caught or jammed. Take extra precautions if you have children. · Avoid placing the unit on any surfaces that may be subject to vibrations or shocks. · To protect the unit during a thunder storm unplug the AC power cord and disconnect the antenna.*

*Caution: Do not touch the antenna connector. · When you leave your home for a long period of time, unplug the AC power cord for safety reasons. · The unit becomes warm when in operation. Do not place any covers or blankets on the unit in order to prevent overheating. The ventilation holes are not to be blocked.*

*Do not set up near radiators. Do not place in direct sunshine. When placing on a shelf leave 10 cm free space around the whole unit. Make some space around TV (Correct shelf assembly). · The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.*



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Liquids spilled into the unit can cause serious damage. Switch the set OFF and disconnect the mains power supply, then consult a qualified service person before attempting to use the unit again. Please pay attention to the following instructions in order to avoid receiving a life-threatening electric shock: · Protect against moisture. Never use in the bath or sauna. · Never use near a bath, shower or swimming pool. · Never use the unit if it has got wet. This can also mean condensation moisture, which occurs in the winter when the cold unit is brought into a heated flat. Wait before operating the unit especially after it has been transported in the winter, until the cold unit has adjusted to the room temperature. · Do not place any heavy objects on the flex. Electrical isolation could be damaged.

· Never wrap insulating tape around damaged flexes or on damaged plugs. These should be repaired or replaced by qualified service personnel. · Never use this unit if the cabinet is defective. Do not make provisional repairs if the cabinet is damaged - this should be replaced by a new cabinet if necessary. · Unplug the unit from the mains power supply prior to the cleaning of the unit.

· To prevent fire, never place any type of candle or open flame on the top or near the TV set. 4 Important safety information Moving the unit or carrying by hand When the unit is moved a long way, unplug the power cord and disconnect the antenna, connecting cables and any fall-prevention apparatus. · Moving without doing so could result in damage to the power cord, a fire, electric shocks or injuries from dropping the unit. When the TV stand has casters, remove caster cups from the stand and push it while supporting the unit. · Ensure that you support the unit when the stand is pushed, as this can cause the unit to fall and you could be injured.

· The appliance could leave indentations in wooden tables with extremely soft wooden surfaces due to its heavy weight. · Furniture polish could corrode and dissolve rubber feet. Black imprints could be visible on the table. You should therefore only use TV benches, which have been constructed for this specific purpose. Secure the casters when the unit is installed on a TV stand with casters. · The stand can move and you could be hurt if the casters are not secured. Remove casters when the stand is placed on a soft surface such as a mat and carpet. The distance between eyes and the screen should be about 5 ~ 7 times as long as diagonal length of the screen. · Viewing from too close a diower-on, press power-key 1x and release. For confirmation, standby-LED will change to red and about 1 second later to green.

c) If the TV is currently working, press power-key 1x and release to power-off. For confirmation, standby-LED will change to dark. In power-off-condition, the TV's power-consumption is approx. 1 Watt. If total disconnection from the mains is required, pls unplug. 7 Remote Control Function Enter standby mode or turn on the power Display program position number Teletext time display Activate the analogue menu Activate the digital menu Select channel Select Teletext page Enter password Activate the channel organizer function Select an input source Page 11 13, 22 11 18 13 13 11 Switches between the analogue TV and 18 the digital TV Display the EPG (Electronic Progr. Guide) 23 Sleep Timer Turn the sound on/off Exit the menu screen Volume 13 13 13 Change the TV channel or Teletext page up or down In Standby: Turn on the power Cursor buttons 13 11 Memorize Teletext page 100 CH LIST Toggle between the TV and radio mode Teletext ON / TV+Text / OFF Switches between the present channel and the last selected channel Sub Page selection Select picture format Display the subtitle (DVB Only) Hold the text page Teletext enlargement Reveal quiz page answers Select between the available broadcast audio Display the multi audio menu Fastext/TOPtext buttons 14 13 22 13 13 14 16 23 14 14 14 23 13 8 Remote Control Install the batteries Use batteries type UM3 (AA-Size). Do not use old or weak batteries. The remote control may not work properly with a weak voltage from such batteries. Replace exhausted batteries with new ones.

Never try to recharge normal batteries - this could cause an explosion. Note: Exhausted batteries can leak corrosive electrolyte, which may cause damage to the remote control therefore remove exhausted batteries immediately. 1 Open the battery compartment. 2 Install the batteries as shown below, ensuring the correct polarity. 3 Close the battery compartment.

Distance of Remote Control Operation Remote sensor Point the remote control directly at the remote sensor. Maximum distance approx. 5m 30 30 Transmitter window The remote control handset will not work properly in the following cases: a) If bright sunlight directly beams onto the unit front. b) If an obstacle is placed between the unit and the handset. Z Z Z c) If the batteries have not been installed according to their polarities.

d) If the batteries are weak. Z Z Z 9 Antenna connection Note: Before you connect other appliances: · To avoid potentially damaging your set, make sure all items are switched off and disconnected from the mains power when you make the connections. · Arrange the desired connection. · When you have finished making the connections, reconnect the mains power to the unit and switch it back on. Connect your antenna as shown below (J). Connections to other equipment is explained further on P.27, 28. If you have problems with reception, consult a specialist of antenna. 19LD5550U Back Side (L) (K) (M) (A) (B) (C) (D) (E) (F) (G) (H) (I) (J) (A) Power supply: Connect the supplied power cable to an AC 220-240V/50Hz mains power supply only - do not attempt to connect it to any other type of supply. Never try to repair a damaged AC power cord with isolation-tape - this should be repaired by a specialist or replaced.

Do not let your pet loose near the cable. Animals biting into the cable could receive a fatal electric shock, and could cause a hazard to others. (B) HEADPHONE jack: Plug headphones with a mini plug (3.5 mm) into this jack. (C) COMPONENT input: See P.28. @@See P.28. @@(F) PC MONITOR input (PC): See P.25.

(G) PC/HDMI AUDIO input: See P.25, 26. (H) HDMI input : See P.26. (I) Scart socket (AV1): For the connection of scart cable. See P.27, 28. (J) ANT: Plug in the antenna (aerial) here. (K) C.I.

slot: for DVB-T-PayTV (see page 22). (L) Bracket holes: Fix a wall mounting bracket (not supplied) here. @@Before performing work spread cushioning over the base area to lay the TV on. 10 Auto setup Your unit has an Automatic installation which makes installation in your unit easy. When you turn on the unit for the first time, the Automatic installation routine is activated. Using this routine, you can select the on-screen language and automatically search for and store all the receivable analogue and digital (DVB) channels.



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The Automatic station presetting feature is for the set's built-in tuner only. If you have a device such as a digital decoder (eg. Satellite or Digital Terrestrial) connected (see P.27), you would need to tune it in separately according to its own instructions.

Preparation: (Power) on the unit or press Press on the remote. (On/Standby) Quick guide for ANALOG MENU operation Make sure the antenna connection and power supply are connected as per the description on previous page. Preparations: (Power) button on the · Turn on the unit with the (On/Timer/Standby) indicator will light up unit. The in green. To change the unit to standby mode, press on the remote control. (On/Timer/Standby) indicator will change from green to red. To turn on the unit from standby mode, press on the remote control again. In standby mode, you can also turn the unit on with (Channel) / on the unit or P + / on the remote control. To turn off the unit press (Power) button on the unit - to completely switch it off, disconnect the mains power supply. 1 AUTO INSTALLATION menu will appear.

to 2 Press or then select COUNTRY, press ENTER. Press or to select your country. Then press ENTER. AUTO INSTALLATION Press or to select the first line, then press ENTER. Press select desired language.

Then press ENTER. LANGUAGE ENGLISH Call ANALOG MENU and for example: Select AUTO TUNING. or to AUTO INSTALLATION LANGUAGE COUNTRY AUTO TUNING ENGLISH UK 1 Press INPUT SELECT. MENU. Select ATV.

Press ANALOG 2 Press or to select . to select AUTO 3 Press or then press ENTER TUNING, to enter the AUTO TUNING menu. ... on the following pages the MENU can be called in the same way as here. AUTO TUNING MANUAL TUNING CH ALLOCATION Press or to 3 press ENTER. select AUTO TUNING, then The confirmation screen will be displayed. Press ENTER to start automatic tuning. Your TV will now automatically tune in all available channels.

Your TV will tune the analogue channels first, then tune the digital channels. Note: · Please be patient - the Auto Tuning process can take several minutes to complete. When the programme on the screen stops changing and the sound comes on, the search process is complete. Note: · To cancel the Auto Tuning, press EXIT during the process. · If on the "AUTO INSTALLATION (COUNTRY)" screen "UK" is selected, "Change No." and "Move To" cannot be used in U.K. (see page 20) 4 Press EXIT to return to the normal screen. Note: · If no buttons are pressed for more than approx. 60 seconds, the MENU disappears automatically.

Selecting the video input source Press INPUT SELECT to view a signal from another device connected to your TV, such as a VCR or DVD player. You can select each input source depending on which input jacks you used to connect your devices. INPUT SELECT To select the video input source, ATV press / . DTV Then press ENTER within 6 AVI seconds. AV2 COMPONENT HDMI THE AUTOMATIC TUNING PROCESS WILL ONLY START BY ITSELF THE FIRST TIME YOU SWITCH THE SET ON.

HOWEVER YOU CAN RESTART THIS PROCESS VIA THE MENU SYSTEM (see page 12 for analogue channels, and page 18 for digital channels). 11 On-screen Language Selection 1 Select LANGUAGE (unless you have already selected when the set was first switched on). Then press ENTER. AUTO TUNING MANUAL TUNING CH ALLOCATION LANGUAGE ENGLISH 0 16:9 VERTICAL POSITION AUTO 4:3 DEFAULT ENGLISH 2 Press or to select the desired language. 3 Press EXIT to return to the normal screen.

Automatic station presetting with the built-in Tuner Perform this feature to search for and store new analogue TV programmes after the Automatic installation. (P.11) Preparation: Make sure your antenna is connected to the antenna input (see P.10). Select ATV (see P.11). Then press ANALOG MENU. Description about the each setting option: SORT: Press or to select the channel that you want to move, then press ENTER. Press or to select the position that you want to move the channel to, then press ENTER. ERASE PROGRAM: Press or to select the channel that you want to erase, then press ENTER.

SKIP: Press or to select the channel that you want to skip, then press ENTER. mark will appear. CH LABEL: Press or to select channel that you want to rename, then press ENTER. Press or to select character, then press or . The cursor will move to the next position. Press ENTER to set the channel label.

Manual TV station presetting If you like, you may manually tune a certain station into a selected memory-cell, without deleting or modifying other memory-cell's contents. Example: Store the BBC 2 into memory-cell 2. ATV (see page 11). 1 Preparation: Select 2.

Press key 2 (see page Select memory-cell 13). OSD will indicate 2 in right upper corner. Eventually recently stored TV-channel's name might also appear. 1 Select AUTO TUNING, then press ENTER. COUNTRY, 2 Select ENTER.

then press COUNTRY START UK Press or to select your country, then press ENTER. Press ANALOG Press 2 tool-page. Press MENU. to select or to select or MANUAL TUNING. Press ENTER.

SOUND 3 COLOUR SYSTEM and AUTO. Do SYSTEM has already been preset to not touch. Press or to 4 SEARCH. Press select ENTER. SEARCH FINE 168.30MHz Press or -key, to start COLOUR SYSTEM tuning. Tuning will stop AUTO SOUND SYSTEM AUTO automatically at next available station. If this does BBC 2 175.30MHz not happen to be the BBC 2, press or -key again to continue tuning for the BBC 2. Then press ENTER.

3 Select START. Then press ENTER. The automatic tuning will search for available broadcasts and should store the channels in the correct order. During the search the sound is muted. When all programs have been stored, the normal TV screen will appear. Note: · To restart digital auto tuning, see page 18. · When the COUNTRY is set to UK, the automatic tuning will search for UHF broadcasts only. Changing the order of stored channels The Automatic station presetting stores the stations in a specific order. However, this order can be changed if you wish. like use ne-tuning.

FINE and 5 If you ENTER. fi Press or Select me tune. See press , to fi the note on this page. 1 Press ANALOG MENU. Select CH ALLOCATION.

Then press ENTER. 2 each option, 3 After setting the MENU to press ANALOG Select desired option, then press ENTER. 6 To store other stations in additional memorycells, repeat steps 1 to 5. 7 Press EXIT to return to the normal screen. Note: · Usually fine tuning is not necessary, due to tuning's automatically stopping at the very best position.

If you fine-tune anyway, proper working of teletext-reception with built-in tuner is no longer guaranteed. SORT ERASE PROGRAM SKIP CH LABEL 4 12 return to CH ALLOCATION menu. Press EXIT to return to the normal screen. Note: · When changing the order of the channels, it is best to start with CH1. Basic Operation Channel selection With the numbered buttons. Example: · No. 2: Press 0 and within 2 seconds, press 2.



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· No. 29: Press 2 and within 2 seconds, press 9. Press P + or to change up or down a channel.

This takes approx. 2 seconds. If the auto search only stored 5 stations, only these 5 will appear. Skipped channels will not appear (see P.12). CH LIST The CH LIST shows a list of all receivable programmes. They are located in channels 1 to 99. Press CH LIST to display the CH LIST. Press or to select the desired channel. Press CH LIST to display the selected channel.

Press EXIT to exit. QuickView button allows you to go back to the last selected channel. Volume adjusting Press + or to adjust the volume. MUTE Press . The sound will be cut off.

MUTE will appear for approx. 4 seconds. The muting can be released by pressing again or + or . Information display In the analogue TV mode: Press . Channel number and picture size setting will appear for approx.

4 seconds. In the digital TV mode: Press . The program information will appear (see 'Channel banner' on page 22). SLEEP TIMER To set the sleep timer press . SLEEP and the minutes until shut-off will appear. Each time you press the SLEEP time shown will change. When the displayed time runs out, the unit will switch to standby. To cancel the sleep timer: Press repeatedly until '0' appears. Note: · SLEEP TIMER can also be set in the SLEEP TIMER menu (see p.17).

Note: · If the built-in tuner does not receive anything (e.g. if no antenna is connected) during TV-operation, then the TV-unit will change to standby after approx. 15 minutes. Teletext (analogue) Teletext is sent page by page. This unit is able to automatically store up to 256 pages, but they can only be accessed once they have been stored. This can take a few moments. Fastext/TOPtext The Fastext/TOPtext is teletext with a special directory. On the lower part of the screen there are four different coloured fields (red, green, yellow and blue). These fields lead directly to the pages shown within.

The coloured buttons on the remote control correspond to the coloured fields. Press the appropriate coloured button in order to activate the desired colour field. Switch on / off Teletext Teletext is not transmitted by all channels. Select a channel that shows teletext. Press .

You will now see a teletext page. (If "100" is shown without any text information, it may mean that the channel you have selected does not support teletext.) Press again. The TV-screen will be split into two and both Teletext information and actual broadcast will be displayed at the same time. Press again in order to switch off teletext.

Press again in order to switch on teletext again. The last page which was stored is now shown. TELETEXT TELETEXT Note: · You cannot select any other channels as long as teletext is switched on. Switch teletext off when you want to switch over to another channel. Select Page Press P + or until the page you desire appears. Or ... enter the requested page number by using the 10 Number Buttons. And if you mistype something, just enter the complete 3-digit wrong page number then enter the desired number again.

Or ... press one of the coloured teletext buttons so that a page from Fastext/TOPtext is shown. 13 Hold Pages Some pages are divided up into subpages by the channel. Subpages are automatically shown in turn, as they are transmitted. In order to hold the page, press . Press again in order to display the next subpage. Directly Select Subpages You can directly select the subpages if required. Example: Page 128 from ARD (German teletext) comprises of 2 subpages.

In the right upper corner you will, for example, see 1/2. That means that page one of 2 subpages is being shown at the moment. 128 128 ARD-Text 21.07.03 15:01:38 1/2 Stereo reception with the built-in analogue tuner The built-in Tuner can detect and receive NICAM stereo broadcasts automatically.

NICAM stereo sound reception: 1 Select NICAM, then press ENTER. Press or to select AUTO or OFF. Select OFF if you do not want to receive NICAM sound. NICAM BASS TREBLE AUTO 25 25 2 Press EXIT to return to the normal screen. The following types of broadcast are possible with NICAM transmissions 'NICAM ST' illuminates for approx.

4 seconds when a NICAM STEREO broadcast signal is received. 'NICAM M1' illuminates for approx. 4 seconds when a NICAM MONO A broadcast signal is received. 'NICAM M1/M2' illuminates for approx. 4 seconds when a NICAM MONO A and MONO B broadcast signal is received. This will be displayed for approx. 4 seconds if a NICAM signal is received when the 'NICAM OFF' option is selected. 'NICAM ST' Press in order to select subpage 2. 4 dashes (----) are shown. Enter 0 0 0 2.

It can take a minute before subpage 0002 appears. Press again in order to switch off the subpage feature. You can only select other teletext pages when the subpage feature is switched off. Enlargement In order to enlarge the display, press . Either the upper or lower half of the screen is enlarged. Each time you press you switch between the display of the upper or lower half of the screen or the full picture. Answering Quiz Questions Some pages contain quiz questions with concealed answers. Press in order to show the answers. Page 100 Press ENTER in order to show page 100. NICAM M1 NICAM M1 / M2 NICAM OFF

Note: · In case of bad reception, the stereo sound also can be disturbed.

14 Picture size and resolution Resolution and picture quality Broadcast wide screen films in different resolutions. The following table shows the resolution options for wide screen film broadcast media. Broadcast media Resolution of the wide screen signal 432i x 704 (Letterbox) 576i x 704 (anamorphic) 720 x 1280 (HD) 1080i x 1920 (HD) Analogue Digital cable TV cable TV Yes No No No Yes Yes No No DVB-T Satellite (DVB-S) Yes Yes No No Yes Yes No No Best image quality results when the inputted resolution received corresponds with the resolution of the used TV appliance. The 19LD5550U/22LD5550U has a resolution of 1366x768, its picture format therefore corresponds with 16:9. As a result best image quality results with a picture signal of 1280x720 or higher.

The low resolution of analogue cable TV is not recommendable for HD-ready appliances resulting in poorest visual image quality. Analogue cable TV is however completely sufficient for analogue tube TV appliances. Picture quality and black bars Wide screen films come in different formats. The format is the relationship between the width and height of the picture. For example, with a 16:9 film the width to height ratio is 16:9 or 1.

78:1. Only 16:9 films can fill a HD-ready screen without black bars. Therefore, black bars are always visible when a format other than 16:9 is received. E.g. 4:3, A 4:3 displays vertical black bars to the right and left. If a 4:3 picture is increased to 16:9 format then it either appears distorted (see illustration) or some parts of the picture are cropped off at the top and the bottom.



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This is completely normal and is not a fault in the wide screen TV. 4:3 picture zoomed on 16:9 screen Super Cinemascope films are wider than 16:9 films. They are in the format 2.

4:1 or 22:9, for example. This is clearly wider than 16:9. Therefore, Super Cinemascope films display black bars at the top and bottom on any HD-ready TV set. The 19LD5550U/22LD5550U cannot remove the black bars from Super Cinemascope films. 4:3 picture 1:1 on 16:9 screen Picture format and resolution There is no connection between the picture format and the resolution received. For example, the Super Cinemascope format can be received in all resolutions, even in the HD resolution 1080i x 1920. For HDTV reception too an HD-ready set may display black bars at the top and bottom. 15 Picture format Picture Size The required picture format can be set by pressing the PICTURE SIZE button. Press PICTURE SIZE until the required format is displayed. Tip: The picture goes dark for a short time every time the button is pressed before appearing in the required format.

You move through the following formats when you press the button: AUTO, 4:3, 16:9, CINEMA, 14:9 REAL (HDMI only). AUTO The picture is automatically only then shown in a format-filling display when a WSS-TV signal is received. Example: If the analogue tuner receives a letterbox image with WSS signal then the resulting image looks like this: Other formats Press PICTURE SIZE until the desired size is reached. 4:3 The picture is displayed in 4:3 format with black bars to the right and left. 16:9 The width of the picture will be zoomed evenly.

16:9 is particularly suitable for DVD players, DVB-T, DVB-C and satellite receivers, which can transmit and show 16:9 feature films without black bars. In the set-up menu of the set, adjust it to show that a 16:9 TV set is connected. CINEMA Use CINEMA to increase a small 4:3 letterbox signal. How do you recognise whether the broadcasting station / the set operating is using a 4:3 letterbox signal that is too low? Press the PICTURE SIZE button on the remote control until the 4:3 format appears. If the picture is surrounded by a black border as in the illustration, this is a 4:3 letterbox signal.

Limited by the broadcasting station / the set operating, this signal is much too low for a 16:9 HD-ready screen. CINEMA increases this picture that is too small as far as possible. Natural visible poor focus emerges, rather as if a postcard were being increased to poster size. This unfocused appearance is conditioned by input signals that are too low and is in no way a production fault in this TV set. illustration 1: Letterbox image is increased WSS: Public broadcasters include 16:9 identification, the WSS signal (WideScreenSignalling), during transmission in order to ensure automatic conversion to 16:9. Most private broadcasters do not transmit a WSS signal. Their 16:9 films are always broadcast in letterbox format. AUTOMATIC does not recognise anything without WSS signal and does not automatically alter the picture size. Use the PICTURE SIZE button to set the required picture size for private channels. If AUTO is set then the built-in tuner checks whether the WSS signal is present after every switch-over to another programme.

If the WSS signal is rediscovered the screen goes intermittently black. The picture can also go black during adverts when adverts are transmitted in both 4:3 and 16:9. Switch off AUTOMATIC if you are bothered by the intermittent darkness of the picture. Switch off AUTOMATIC by pressing the PICTURE SIZE button until the required format appears, e.g. 16:9. 4:3 Letterbox picture increased to CINEMA format. 14:9 The picture is increased somewhat but not up to the full screen width. Black bars remain on the right and left and also at the top and bottom. @@@@ See page 14.

You can adjust the sound quality to your preference. See page 26. @@ See page 12. See page 12. See page 12.

See page 12. @@@@ (every 10 To cancel the SLEEP TIMER, set to "0". @@ TV Outputs the last channel position selected. MONITOR The picture displayed on TV-screen. @@@@ @RESET TV SETTING Prees ENTER to enter the RESET TV SETTING screen.

Prees or to select "YES", then prees ENTER. @@@@ PAL is the colour system used in Germany. @@@@ Press TV/DVB-T. @MENU. @ Otherwise you can also directly enter the frequency value to start the tuning. Manual Scan 1 Press DIGITAL MENU, the menu will appear on the screen. Main menu CHI Language Setup Texd ABC CH2 CH3 i CI Language Setup Press or to select Language Setup option, then press ENTER. will appear. 2 Language Setup menu the item you want to Press or to select change. Press or to select desired language.

Language Setup Channel list Frequency (kHz) Navigate Ch-21 474000 Enter Exit Menu Language Pref. Audio Language English English setting start 3 Afterscanning. the carrier, press ENTER to the list the During the scan process, of services (TV/Radio) collected for the carrier will be listed. changes are decided, 3 When all the normal screen. press EXIT to return to 4 Then the confirmation banner will be displayed. Press or ENTER. to select 'Yes' or 'No', then press Auto Scan Preparation: Please ensure that all the connections have been made correctly (see page 10). / or 1 Press DIGITAL MENU. Press ENTER. / to select 'Auto Scan' then press 2 The confirmation banner will be displayed.

Press or to select 'Yes' 'No', then press ENTER. process will now begin. 3 The Auto Scan process will be displayed in the The scanning progress bar. Carrier Frequency (kHz) Searching..

. Progress :1 :562000 5 Press EXIT to return to the normal screen. Note: · If on the 'AUTO INSTALLATION (COUNTRY)' screen 'FINLAND' is selected, 'Frequency (kHz)' cannot be used. · When the Country is set to FINLAND in the 'AUTO INSTALLATION (COUNTRY)' If there is a Channel List in the data after Auto Scan or Manual Scan, Channel Type Selection Menu will be displayed and available to set Channel List Type. Select the Channel List Type by pressing / and press ENTER · If "FINLAND" is selected on the "AUTO INSTALLATION (COUNTRY)" screen, Data is displayed on the "Carrier Setup" screen.

Navigate Exit Note: · If "FINLAND" is selected on the "AUTO INSTALLATION (COUNTRY)" screen, two languages are displayed for each item and the first selected language has priority. The language output depends on the languages contained in the broadcast. · All the channels will be deleted before the scanning process begins. · You can cancel the scan process at any time by pressing EXIT. The carriers and the services stored before EXIT is pressed will be stored. 18 Carrier Setup The Carrier setup option menu lists all the carriers (multiplexes) that are currently available and allows you to Rename, Delete or Rescan carriers individually. Press MENU. Press / or / 1 select DIGITAL Setup' then press ENTER.



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to Carrier their frequency 2 All the carriers are listed-with user can scroll and service information the through the carrier list and select each one individually to Rename, Delete or Rescan. 3 By pressing the corresponding Number Button (1-8) key, you can activate the following functions from this menu for each channel: Lock, Skip, Go To, Delete, Rename, Move, Change No.

and Move To. (You can deactivate each of these functions by pressing the same number again.) See page 20 for setting details. Indications: S.No Service Name 030 CBBC Lock Skip Del Move 3 Rename: then press Red button. The Select carrier, alphanumeric keypad will appear. You can rename a service as per your preference (see page 20). Delete: Select carrier, then press Green button. The check mark ( ) will be displayed for selected carrier. Then press ENTER.

The confirmation banner will be displayed. Press or to select 'Yes' or 'No', then press ENTER. If the option 'Yes' is selected then all the marked carriers will be deleted from the list. Rescan: Rescan allows to tune the already tuned carrier, to collect any new programmes that are currently available in the stream. Press Blue button, to rescan the current selected carrier.

Service Service number name Pay channel Delete mark Skipped service Locked service Move mark Note: · While in TV mode, only TV programmes will be displayed and only radio programmes will be displayed while in radio mode. · The displays of Channel / Service name will be abbreviated depend on its size of the letter. Channel Organizer The Channel Organizer feature provides options to organise the channels. The following options are supported: Lock, Skip, Go To, Delete, Rename, Move, Change No. and Move To.

or select 1 Press DIGITAL MENU. Press presstoENTER. Channel Organizer option, then 2 The Channel Organizer menu will appear. The available programmes will be listed, depending on the current mode. The selected programme will be highlighted. To toggle within the service list, press or . Channel Organizer S.No Service Name 671 672 673 674 679 800 672 MNO PQR STU TCM VWXYZ SAT.1 ARTE 4. Delete 5.

Rename 6. Move 7. Change No. 8. Move To Lock Skip Del Move TV 1. Lock 2. Skip 3. Go To Navigate 0..9 D.

Menu Exit TV/Radio 19 Channel Organizer Setting details When the service is locked, you must enter your PIN whenever you tune to the service. Press / to select the desired service. Press 1 on the remote control. If you already set the PIN, enter it here. If not, enter the factory preset PIN "0000".

Lock An icon displays indicating the service is locked. Pressing 1 will turn the lock icon on and off. (PIN entry is required.) Press DIGITAL MENU. Services that are set to skip will not be picked up when pressing P +/-.

Press / to select the desired service. Press 2 on the remote control. An icon displays indicating the service to be skipped. Pressing 2 will turn the skip icon on and off. Skip Press DIGITAL MENU. To view services that are set to be skipped, use 0-9 or select from the Channel List. Use this function to jump to the specific service in one step. This is useful when there are many services displayed on screen to scroll through. Press 3 on the remote control. Now you can change the service number on the left Go To side of the screen.

Enter the number using 0-9, and then press ENTER. The highlight moves to the selected service. Delete the selected service(s) from the memory. Press / to select the desired service. Press 4 on the remote control. An icon displays indicating the service to be deleted. Delete Pressing 4 will turn the delete icon on and off. Press DIGITAL MENU. A confirmation message displays. Press / to select "Yes", and then press ENTER.

Change individual service names. Press / to select the desired service. Press 5 on the remote control. A character set screen displays. Rename Enter new name for the service.

Press DIGITAL MENU. A confirmation message displays. Press / to select "Yes", and then press ENTER. Sort the order of the selected service by moving the service position. Press / to select the desired service.

Press 6 on the remote control. An icon displays indicating the service to be moved. Move Pressing 6 will turn the move icon on and off. Move the selected service to the desired position using / , and then press ENTER to register the change. Change service number. Press / to select the desired service. Change No. \* Press 7 on the remote control. Now you can change the service number on the left side of the screen. Enter the number using 0-9, and then press ENTER.

Sort the order of the selected service by modifying the service number. Press / to select the desired service. Press 8 on the remote control. Now you can change the service number on the left Move To \* side of the screen. Enter the number using 0-9, and then press ENTER. The service moves to the new position. Note: \* If on the "AUTO INSTALLATION (COUNTRY)" screen "UK" is selected, "Change No." and "Move To" cannot be used in U.K. 20 . . . . . Display Setup Press MENU.

Press / 1 select DIGITAL Setup', then press or / to Display ENTER. 2 Display Setup menu will appear. want to Press or to select the item you change. Then you can change each setting by pressing or . Banner timeout Banner position 1 sec, 2 sec.

... 7 sec Top Bottom Select how long the service banner information appears on screen. Select whether the service banner information appears on top or bottom of the screen.

Then enter your chosen new password (be sure to remember this password). After you have entered the new password for the first time, you need to enter the same password again for confirmation. The Information banner will then appear. Press EXIT to return to the normal screen. While toggling between channels, if a service which has a parental rating is selected then you will be asked to enter the correct password to view that channel. If the channel you are currently watching supports a parental rating then the rating will also be displayed in the Channel banner menu (see page 22). Note: · There are 15 age-based ratings, ranging from '4' (years old) to '18' (years old) and 'None'. Eg. If the Parental Lock is set to '8' (years old), only the services which have the parental rating of '8' (years old) or under will be viewable without entering the Password. · You will be prompted to enter the password, when you set new parental rating.

You can set the new parental rating only when you enter the password correctly, otherwise the old parental code will be retained. After are made, 3 returnall the changesscreen. press EXIT to the normal Time Setup If the time displayed on the Channel banner differs from the actual time, it can be corrected. Press or / 1 select DIGITAL MENU. Press /ENTER. to 'Time Setup', then press menu will appear. 2 Time Setupdisplayed on the Channel banner If the time differs from the actual time, adjust the time offset with the or button until the correct time is shown.



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Note: · Normally, this would be done by selecting "Auto". Version You can check the software and hardware versions. Press 1 select DIGITAL MENU. Press / or Version', then press ENTER. / to The hardware and software versions are displayed. Software Upgrade Software Upgrade allows you to download the latest software available on the Engineering channel. Press or to 1 select DIGITAL MENU. Press /press /ENTER.

Software upgrade', then is available from an 2 If a software upgrade(OAD) then the message Over- Air-Download S/W available, do you want to download?' will be displayed - you can then select Yes' or No' by pressing or , then press ENTER. then 3 If you select the option Yes'will be the Software Upgrade process initiated. It will take about 20 minutes and after this process is complete, the TV will be rebooted automatically. If you select the option No' you can continue to watch TV programmes as before. After are made, 3 returnall the changesscreen.

press EXIT to to the normal Password Setup (Parental lock) This feature allows you to have a parental control of the service viewing as per your preference. Once a service is protected with a password, it cannot be viewed unless the correct password is provided. Press / or / to 1 select DIGITAL MENU. Press press ENTER. Password Setup', then appear. 0 2 'Enter Password' will Buttons.Press 0 the 0' using the Number (This is default password.) 3 Press or to select Parental Lock', then press or to select desired parental rating (see note). Then press EXIT to return to the normal screen. 4 Press EXIT to return to the normal screen.

Note: · Do not disconnect the AC cord when the software upgrade is in progress, as this may cause the upgrade to fail. At this time you cannot use any of the buttons. · When the unit searches for a software upgrade signal, the message 'Please wait... ' will be displayed. 4 You can also change the password using the next option. Press or to select 'Change password'. 21 Common Interface You can access the Common Interface module information from this menu option.

Preparations Insert CAM into the DVB Common Interface slot on the backside of the TV (see page 10). to 1 Press DIGITAL MENU. Press orpress select 'Common Interface' option, then ENTER. module 2 The CAM to press name willtobe displayed. You have ENTER view further information. CI Menu, information 3 In theas ModuleCAM specificSmart card such information, information, Language and Software Download are shown.

Press or to select information, then press ENTER to see detail. Channel banner When you change from one channel to another, the Channel banner will be displayed for the selected service. In the channel banner menu, information such as current date & time, channel name, etc. will be displayed. While watching the press to 1 the Channel bannerservice,time.

It will display at any disappear after the Banner timeout value (this can be adjusted to your preferred value, see page 21). DVB Teletext available Service name Service No. 001 BBC ONE DVB Subtitle available Lock status Pay TV Audio mode Stereo 251\_ABC\_Monosco\_0... 17:17:37 20/08/2009 A ge: 10 Duration graph 17: 08 17: 38 Unclassified Time and date Genre Starting time/Ending time of current programme Programme name Parental rating 4 Press EXIT to return to the normal screen. Channel list again to 2 Press the Basic display Basic Service Information DVB-T 64QAM Service Name Signal Quality 671 MNO 65% 1 Press CH LIST to display the Channel list menu. Channel list S.No 671 672 673 674 679 800 Services MNO PQR STU TCM VWXYZ SAT.1 TV List of the services Navigate Enter Exit TV/Radio 2 Select the Services: List of the services will be displayed in the left side of the menu.

Press or to toggle within the service list, then press ENTER. Toggle between the list of TV and Radio services: The TV/RADIO key is used to toggle between the TV and Radio mode. If you press CH LIST when you are in Radio mode then the channel list menu will display the list of Radio services. If you wish to view the list of TV services without exiting the current menu, TV/RADIO key should be pressed once. 3 Service Information. You can verify the signal strength and quality of the selected service here. If necessary, adjust the direction of the antenna to obtain the maximum signal strength. · When the Country setting has been set to FINLAND, press once more to display the advanced detailed information. To remove the Channel banner immediately, press again. Signal Strength 63% 671 MNO 10Step 0820 0005 0030 Audio2 AB

.. 671 MNO 10Step 0820 0005 0030 Audio2 AB CDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz Enter Exit Note: · Subtitles are displayed on the channel banner. Some broadcasts may not provide this service. Note: · The displays of Channel / Service name will be abbreviated depend on its size of the letter.

22 Multi audio You can select your preferred Audio mode and DVB (digital TV) subtitle Language. The Multi audio menu will display the Audio mode and Language options available with the current broadcast. EPG (Electronic Program Guide) The Guide menu shows the available programme listings for the next 8 days only, including today. However, the guide menu will show 'No Event Name' for programmes which are more than 8 days ahead, or for programmes within the 8 days when no programme information is available. 1 Press AUDIO I/II to display the Multi audio menu.

The Audio mode and Language code will be displayed if available. Multi audio Audio mode No. 001 002 Language Code ENG ENG (Dolby Digital) Stereo 1 Press GUIDE (EPG) to display the Guide menu. Guide 671 MNO Channels MNO PQS STU TCM VWXYZ SAT.1 ARTE DEF 16:50 Sun 20/08/2009 9 TV Sun 20/08/2009 671\_MNO\_10Step\_0820\_0100\_0120\_Audio2\_0100\_0120.. . 01:00 01:30 02:00 To 2 theselect Audio mode, pressbe or . In general below audio modes will supported in a service. Stereo, Left, Right and L + R.

Then press ENTER. To select a Language code, press or select code within Language code list. Multi audio Audio mode No. 001 002 Language Code ENG ENG (Dolby Digital) L+R Service list 671\_M... 671\_M... 671\_MNO\_10step 672\_PQR\_SMPTE\_col.

.. 672\_PQR\_SMPTE\_col... 673\_STU\_SDTV.. . 673\_STU\_SDTV Moving..

. No Event Name 679\_VWXYZ\_Monosoo\_0100\_0300... No Event Name No Event Name No Event Name Events list Page - Page + Enter Prev.Day View Info Exit Next Day Guide TV/Radio to Navigate Highlighted programme 3 Press EXIT. Your selected audio preferences will be saved. Note: · Dolby Digital audio can be selected for some language options. There is no sound output from the main unit's speakers when Dolby Digital audio is selected. You can only hear Dolby Digital audio through the amplifier equipped with a Dolby Digital decoder.

· Dolby is a trademark of Dolby Laboratories.



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Service list : Lists all the services that are currently available. As you scroll through the service list by pressing or , the Event list will be refreshed accordingly, and you will see the programme information for the currently highlighted programme. To scroll through the service list page by page, press Red or Green Key. Events list : List the events in a grid of rows and columns. Each row shows the list of events that are available, for the corresponding service in the service list. Within each row, you can press or to navigate through the rest of the events. You can easily move to the Previous day or Next day in the Events List by pressing Yellow or Blue key (the date of the programme information you are currently viewing is shown in the top right hand corner). The full Event name along with the duration of the event will be displayed in the bar above. Guide menu, you can 2 From within the menu for the currently open the Description highlighted programme by pressing .

The Guide/Description menu shows the extended event description of an event. You can scroll and view the complete event description of the event using or .

To return to the Guide menu, press . To clear the menu screen, press EXIT. DVB-Subtitle DVB-Subtitle is a feature supported in DVB (Digital Video Broadcasting) applications in which the service shown can be accompanied by a text display on the screen in parallel with the corresponding audio service. The DVB-Subtitle feature can be enabled or disabled at anytime. Press / or 1 Press DIGITAL MENU.press ENTER. / to select "Subtitle", then Press to select your 2 languageorfrom the availabledesired subtitle languages. Subtitle Language Navigate English Enter Exit or 3 To turn off the DVB-Subtitle, press Subtitle repeatedly until 'Off' appears in the menu.

Press EXIT. Your selected subtitle language will be saved. Note: · DVB-Subtitle can also be changed by pressing of repeatedly. 23 EPG Timer You can choose whether or not the screen switches on when the timer event begins - please see page 17 (Rec screen status (LCD Power on/off)). This is so that if you are using the timer to make a recording to your VCR or other device, the TV screen will not switch on unless you want it to. If you try to switch to another channel while a timer event is in progress, the following message will appear: WARNING: CHANGING THE CHANNEL WILL INTERRUPT YOUR EVENT TIMER.

ARE YOU SURE YOU WANT TO PROCEED? YES/NO'. Select Yes or No according to your wishes. (EPG) the Guide 1 Press GUIDEpress /to/ displayhighlight the menu. Then / to programme you want to set as a timer event, then press ENTER.

Guide 671 MNO Channels MNO PQS STU TCM VWXYZ SAT.1 ARTE DEF specifies the frequency of 4 The Timer modewhich can be set as Once, Timer wake-up Daily or Weekly. Press ENTER to save the selected Timer mode. Event Timer Service Name Mode BBC ONE Once Once Daily Weekly Date 26/02 Note: To delete a timer event, select the specified event, then press the Green key. 16:50 Sun 20/08/2009 TV Sun 20/08/2009 5 To return to the Guide menu, press DIGITAL MENU. To clear the menu screen, press EXIT. Note: · When the EPG Timer starts, the message "Event Timer Started" will appear. · A maximum of eight Timers can be programmed. · If the EPG Timer starts when it is already switched on, it will start at the exact time that is set. If it starts from the standby mode, it will begin 20 seconds in advance of the stated time.

· You cannot hasten the start time from the original start time of the Event. · You cannot set with the same date and time of another Event. · Press the Yellow key to change the start time of the event. · Press the Blue key to change the time duration of the event. · If the EPG Timer begins during standby mode, the (On/timer/Standby) indicator on the unit will be lit in orange.

This is to indicate that an EPG Timer event has begun in standby mode. · When in power-off-condition, EPG Timer cannot be activated.

671\_MNO\_10Step\_0820\_0100\_0120\_Audio2\_0100\_0120..

01:00 01:30 02:00 671\_M... 671\_M... 671\_MNO\_10step 672\_PQR\_SMPTE\_col... 672\_PQR\_SMPTE\_col.

.. 673\_STU\_SDTV... 673\_STU\_SDTV Moving... No Event Name 679\_VWXYZ\_Monosoo\_0100\_0300..

· No Event Name No Event Name No Event Name Page - Page + Enter Prev.Day View Info Exit Next Day Guide TV/Radio Navigate Note: · If you select an event which has already started, the selected program will be displayed on the screen, as you cannot set the timer for a programme which has already started. · To display the stored timer events, press GUIDE (EPG) twice. The EPG Timer menu (see step 3 below) will appear.

You can also delete or change the frequency (Once / Daily / Weekly) of the stored timer events (but please note that you cannot edit the time details that have been set from the EPG). 2 The confirmation banner willorbe displayed. Press or to select 'Yes' 'No', then press ENTER (the selected option is shown in blue). menu will appear. 3 The EPG Timerkey to set the Timer mode for a Press the Red selected event.

Event Timer Service Name Mode BBC ONE Once Date Time 26/02/09 08:10 Duration 00:23 Using the Digital Service Some services bring you programmes with the Digital Service, letting you experience DTV interactively. When provided, the Digital Service will start when you press . BASKETBALL GAME 2009 News Latest headlines from Germany Angola 0-1 Portugal Serb&M 0-1 N'lands Timer mode Edit Timer Navigate Delete Timer Edit Duration Enter Exit Mexico 3-1 Iran England water plea Ballack set to return World Football Interactive TEXT to quit Use UP/DOWN and SELECT FULL SCREEN BACK HELP MENU 24 PC connection Follow these steps: On your PC monitor choose a resolution of 1280 x 768 at 60Hz and save this configuration. Shut down your PC and connect the shut off LCD TV. Use a screensaver to avoid burning-in of static picture content. Select PC input Switch on the LCD-TV. Select the PC input mode (see page 11). Note: · If no signal or a signal with a nonsupported resolution is connected, NO SIGNAL is displayed · As this LCD-TV is not a PC monitor correct display cannot be guaranteed for every PC / graphics card. · Digital PC connection to HDMI-input is not supported. · If by any chance the PC should create a picture on the HDMI-input then there can be no guarantees for its correct representation.

Digital PC connection is not an assured function of this TV appliance. · Select WXGA 'ON' in the menu according to the following table: Use a PC-VGA cable (not supplied) to connect the LCDMonitor to your PC. Make the connections carefully so as not to break or bend the contacts inside the plug. TV (Back side view) PC To PC/HDMI AUDIO input Audio cable (not supplied) VGA cable (not supplied) Example: Adjust the contrast. Supported PC resolutions WXGA OFF OFF OFF ON ON ON resolution 640x480 800x600 1024x768 1280x720 1280x768 1360x768 fps (Hz) 60 60 60 60 60 60 1 During PC mode press ANALOG MENU.



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The Menu will appear on the screen. BRIGHTNESS CONTRAST HOR POSITION VER POSITION PHASE CLOCK 25 40 0 0 25 0 2 Select CONTRAST, then press ENTER. Press adjust CONTRAST. 3 Press EXIT to return to the normal screen. Description about the each setting option: PICTURE Menu BRIGHTNESS and CONTRAST: You can adjust these according to your personal preferences.

HOR POSITION and VER POSITION: To adjust the horizontal and vertical placing of the image. PHASE and CLOCK: Eliminates the horizontal (PHASE) and vertical (CLOCK) interfering lines (Picture width). RED/GREEN/BLUE: Influences the colour balance. BACKLIGHT: Press or to adjust the level you require. WXGA INPUT: When you input an WXGA signal, set this option to "ON".

RESET: Press ENTER to reset BRIGHTNESS, CONTRAST, RED, GREEN, BLUE and BACKLIGHT to the factory preset values. or to AUDIO Menu BASS/TREBLE/BALANCE: Tone setting menu. RESET: Press ENTER to reset BASS, TREBLE and BALANCE to the factory preset values. 25 Connecting an HDMI or a DVI device to the HDMI input The HDMI input receives digital audio and uncompressed video from a HDMI equipped device or uncompressed digital video from a DVI equipped device. When you connect to a DVI device with a HDMI-to-DVI adapter cable, it only transfers the video signal, so it is necessary to use separate analogue leads to transfer the audio signals.

Select the HDMI input mode (see P.11). TV (Back side view) To PC/HDMI AUDIO input HDMI cable (type A connector) HDMI device (not supplied) To HDMI output or HDMI - to - DVI adapter cable (HDMI type A connector) (not supplied) DVI device To DVI output Audio cable (not supplied) Selecting the HDMI audio input source You must choose the appropriate HDMI audio input setting for each connection, depending on whether the source is equipped with a DVI or HDMI socket. 1 Select HDMI AUDIO then press ENTER. Press or to select HDMI or DVI. NICAM BASS TREBLE BALANCE HDMI AUDIO RESET HDMI AUTO 25 25 0 HDMI Note: · This set is classed as "HD-Ready". This means that it is capable of displaying HD (High Definition) signals when connected to a suitable HD source, such as an HD receiver or DVD player that has HD capability, via HDMI, DVI, or Component Video connections. · Some devices may not operate properly with the TV. 2 Press EXIT to return to the normal screen. Note: · 1080p is not supported and any device set to this resolution will produce a blank screen on the set.

· Follow the user's manual that came with the HDMI-system, which you try to connect to this TV. If there is no picture available via HDMI-connection, do connect via SCART-cable first. Use the HDMI-system's remote-control to call the HDMI-system's setup-menu onto the screen. Follow the HDMI-system's manual, to set its video-output to HDMI. When successfully set to HDMI, select this TV's HDMI-input, as described in here on page 11 (Select Video Input). HDMI, the HDMI logo and HighDefinition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. 26 Connection to other equipment 1. Connecting to other equipment Attention: Preparation: · Disconnect all equipment from the AC-supply, to prevent any possible damage. · Make the necessary connections. · Make sure all connections are safe & secure before reconnecting your equipment the AC-supply.

Please connect your satellite-receiver or DVD player via SCART (unless equipped with HDMI or DVI). Make sure your SCART cable's cross-section is at least 1 cm or more. SCART cables with less thickness may cause visible noise. Please make the following settings inside your receiver's / DVD-player's setup-menu: Video signal: RGB TV-Format: 16:9 If you miss to make these settings properly, picture quality will be inferior and parts of the picture might be missing. This is not a fault of this TV-set.

In case you need help to make this adjustment with your satellite-receiver / DVD-player, please consult the related instructions or contact the supplier or maker of those apparatus for support. Please use the satellite's remote-control handset to select Teletext or desired TV-station. Generally it is not possible to store satellite TV-stations into a standard TV. If the TV does not automatically switch to AV-1, please select INPUT AV1 manually, as seen on page 11.

Satellite antenna Satellite receiver VCR TV Video recorder TV (All illustrated SCART cables and antenna cables are not supplied) 2.

Connecting a DVD player TV (Back side view) DVD Player (SCART cable, not supplied) 27 Connection to other equipment 3. Connecting an audio system You can supply the TV sound to the stereo equipment (A) with the scart socket. Use a special scart cable for the connection which sold at the accessory shop. (please consult your hi-fi instructions for details). If you have a surround sound amplifier/decoder (B) with a coaxial digital input, you can connect the Coaxial Digital Audio Output to it, using a suitable coaxial digital lead. This connection carries the audio signal from this set's Digital channels only. Note: · The Bass/Treble/Balance adjustments (see P.17) only function with the sound from the TV speakers - it does not affect the audio output sockets. COAXIAL DIGITAL AUDIO OUT TV (Back side view) Stereo amplifier (A) Audio input TV (Back side view) (Scart-RCA cable, not supplied) (B) (Coaxial digital lead, not supplied) 4. Connecting Video camera and Video recorder Surround sound amplifier system Select the "MONITOR" option in the AV1 OUTPUT menu (see page 17).

Select the AV2 input mode (see P.11). You can see the playback picture from video camera. This signal is output via AV1 and can be recorded by video recorder. With this arrangement, Video recorder will record exactly what is shown on the screen. Note: · If you have a camcorder with S-video, use TV (Back side view) an S-video cable instead of a standard video cable. Do not connect both a standard video cable and an S-video cable at the same time, or the picture performance will be unacceptable. · When you input the PAL-M signal to TV (Back side view) AV2 input, select AV COLOUR setting to AUTO, otherwise the monochrome images will be displayed. (S-VIDEO cable, not supplied) (AV cable, not supplied) AV output Video camera to AV2 Playback Video recorder to AV1 Recording (SCART cable, not supplied) 5. Connecting to a DVD player or other AV device with Component Video outputs If your DVD player (or other device) has Component Video output jacks, use a suitable set of leads (RCA/ Phono) to connect these to the Component Video inputs on this TV as shown - it can greatly enhance the picture quality and performance.

Please remember that you will also need to connect separate leads (RCA/Phono) for the audio signals. Select the COMPONENT input mode (see P.11). TV (Back side view) To COMPONENT IN Audio output Audio cable (not supplied) DVD player Component output Y Pb Pr Video cable (not supplied) Note: · The Component Video input of this unit are for use with equipment which outputs interlaced signals (PAL: 576i/1080i or NTSC: 480i/1080i) and progressive signals (PAL: 576p/720p or NTSC: 480p/720p).



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