

Television OPERATING INSTRUCTIONS

TV Control Switch & Operation 1. Up direction 2. Down direction 3. Volume / Info / Sources List selection and Standby-On switch The Control button allows you to control the Volume / Programme / Source and Standby-On functions of the TV. To change volume: Increase the volume by pushing the button up. Decrease the volume by pushing the button down. To change channel: Press the middle of the button in, the information banner will appear on the screen. Scroll through the stored channels by pushing the button up or down. To change source: Press the middle of the button in twice(for the second time in total), the source list will appear on the screen. Scroll through the available sources by pushing the button up or down. To turn the TV off: Press the middle of the button in and hold it down for a few seconds, the TV will turn into standby mode. To turn on the TV: Press the middle of the button in, the TV will turn on. Notes: • If you turn the TV off, this cycle starts again beginning with the volume setting. • Main menu OSD cannot be displayed via control button.

Operation with the Remote Control Press the Menu button on your remote control to display main menu. Use the directional buttons and OK button to navigate and set. Press Return/Back or Menu button to quit a menu screen. Input Selection Once you have connected external systems to your TV, you can switch to different input sources. Press the Source button on your remote control consecutively to select the different sources. Changing Channels and Volume You can change the channel and adjust the volume by using the Programme +/- and Volume +/- buttons on the remote.

TV Control Button & Operation (optional) Note: The position of the control button may differ depending on the model. Your TV has a single control button. This button allows you to control the Standby-On / Source / Programme and Volume functions of the TV. Operating with the Control Button • Press the control button to display the function options menu. • Then press the button consecutively to move the focus to the desired option if needed. • Press and hold the button for about 2 seconds to activate the selected option. The icon colour of the option changes when activated. • Press the button once again to use the function or enter the sub menu. • To select another function option, you will need to deactivate the last activated option first. Press and hold the button to deactivate it. The icon colour of the option changes when deactivated. • To close the function options menu do not press the button for a period of about 5 seconds. The function options menu will disappear. To turn the TV off: Press the control button to display the function options menu, the focus will be on the Standby option. Press and hold the button for about 2 seconds to activate this option. The icon colour of the option changes when activated. Then press the button once again to turn the TV off. To turn on the TV: Press the control button, the TV will turn on. To change volume: Press the control button to display the function options menu and then press the button consecutively to move the focus to Volume + or Volume - option. Press and hold the button for about 2 seconds to activate the selected option. The icon colour of the option changes when activated. Then press the button to increase or decrease the volume. To change channel: Press the control button to display the function options menu and then press the button consecutively to move the focus to Programme + or Programme - option. Press and hold the button for about 2 seconds to activate the selected option. The icon colour of the option changes when activated. Then press the button to switch to the next or previous channel in

the channel list. To change source: Press the control button to display the function options menu and then press the button consecutively to move the focus to Source option. Press and hold the button for about 2 seconds to activate this option. The icon colour of the option changes when activated. Then press the button once again to display the sources list. Scroll through the available sources by pressing the button. TV will automatically switch to the highlighted source. Note: Main menu OSD cannot be displayed via the control button. Operation with the Remote Control Press the Menu button on your remote control to display main menu. Use the directional buttons and OK button to navigate and set. Press Return/Back or Menu button to quit a menu screen. Input Selection Once you have connected external systems to your TV, you can switch to different input sources. Press the Source button on your remote control consecutively to select the different sources. Changing Channels and Volume You can change the channel and adjust the volume by using the Programme +/- and Volume +/- buttons on the remote. Using Main TV Menu When the Menu button is pressed, the main TV menu will appear at the bottom of the screen. You can navigate through the menu items using the directional buttons on the remote. To select an item or see the sub-menu options of the highlighted menu press OK button. When you highlight a menu option some of the sub-menu items of this menu may appear on the upper side of the menu bar for quick access. To use a quick access item highlight it, press OK and set as desired using the Left/Right directional buttons. When finished press OK or Back/Return button to exit. Press Exit button to close the main menu. 1. Home When main menu is opened Home menu bar will be highlighted. The content of the Home menu can be customised by adding options from other menus. Just highlight an option and press the Down direction button on the remote. If you see Add to Home option you can add it to the Home menu. Same way you can delete or change the position of any item in the Home menu. Press the Down direction button and select the delete or move icon and press OK. In order to move a menu item use the Right and Left direction buttons to select the position that you want the item to move to and press OK. 2. TV 2.1. Guide You can access the electronic programme guide menu using this option. Refer to Electronic Programme Guide section for more information. 2.2. Channels You can access the Channels menu using this option. Refer to Using the Channel List section for more information. 2.3. Timers You can set timers for future events using the options of this menu. You can also review the previously created timers under this menu. To add a new timer select the Add Timer tab using the Left/Right buttons and press OK. Set the sub-menu options as desired and when finished press OK. A new timer will be created. To edit a previously created timer, highlight that timer, select the Edit Selected Timer tab and press OK. Change the sub-menu options as desired and press OK to save your settings. To cancel an already set timer, highlight that timer, select Delete Selected Timer tab and press OK. A confirmation message will be displayed. Highlight Yes and press OK to proceed. The timer will be cancelled. It is not possible to set timers for two or more events that will be broadcasted in different channels at the same time interval. In this case you will be asked to choose one of these timers and cancel others. Highlight the timer you want to cancel and press OK, Options menu will be displayed. Then highlight Set/Cancel and press OK to cancel that timer. You will have to save changes after that. In order to do that press OK, highlight Save Changes and press OK again. 2.4. Recordings (optional) You can manage your recordings using the options of this menu. You can

playback, edit, delete or sort previously recorded events. Highlight a tab by using the Left or Right direction button and press OK to see available options. Recording Settings You can also configure your recording preferences using the Settings tab in the Recordings menu. Highlight Settings tab by using Left or Right button and press OK. Then select the desired item in the sub-menu and set by using Left or Right button.

Start early: You can set recording timer's starting time to start earlier by using this setting. End late: You can set recording timer's end time to end later by using this setting. Max Timeshift: This setting allows you to set the maximum duration for the timeshift recording. Available options are approximate and the actual recording time may change in practice depending on the broadcast. The reserved and free storage space values will change according to this setting. Make sure that you have enough free space otherwise instant recording may not be possible. Auto discard: You can set the Discard type as None, Oldest, Longest or Shortest. If it is not set to None, you can set the Unplayed option as Included or Excluded. These options determine the preferences for deleting the recordings in order to obtain more storage space for ongoing records. Hard disk information: You can view detailed information about the USB storage device connected to your TV. Highlight and press OK to see and press Back/Return to close. Format Disk: If you want to delete all files on the connected USB storage device and convert the disk format to FAT32, you can use this option. Press OK button while the Format Disk option is highlighted. A menu will appear on the screen, requiring you to enter the PIN(*). After you enter the PIN, a confirmation message will be displayed. Select Yes and press OK to start formatting the USB storage device. Select No and press OK to cancel. (*) Default PIN could have been set to 0000 or 1234. If you have defined the PIN(is requested depending on the country selection) during the First Time Installation use the PIN that you have defined.

3. Settings You can manage the settings of your TV using the options of this menu. Refer to Settings Menu Contents section for more information.
4. Apps When your TV is connected to the Internet related contents will also be available, including Apps related contents. Using the Apps menu you can access and manage your applications. You can add new apps from the market or delete the existing ones. Refer to Apps section for more information.
5. Source You can manage your input source references using the options of this menu. To change the current source highlight one of the options and press OK.
 - 5.1. Source Settings Edit the names, enable or disable selected source options. There are also Regular, Enhanced and Disabled options available for HDMI sources. Regular and Enhanced options are affecting the colour settings of the selected HDMI source. To be able to watch 4K or HDR/HLG images from an HDMI source related source setting should be set as Enhanced if the connected device is compatible with HDMI 2.0 and subsequent versions. Set as Regular if the connected device is HDMI 1.4 compatible. Set accordingly or disable the related HDMI source by setting as Disabled.

Inserting the Batteries into the Remote Remove the back cover to reveal the battery compartment. Insert two size AAA batteries. Make sure the (+) and (-) signs match (observe correct polarity). Do not mix old and new batteries. Replace only with same or equivalent type. Place the cover back on. A message will be displayed on the screen when the batteries are low and must be replaced. Note that when the batteries are low, the performance of the remote control

may be impaired. Power Connection IMPORTANT: The TV set is designed to operate on a 220-240V AC, 50 Hz supply. After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains. Plug the power cable to the mains socket outlet. Antenna Connection Connect the aerial or cable TV plug to the AERIAL INPUT (ANT.) socket or satellite plug to the SATELLITE INPUT (LNB) socket located on the rear side of the TV. Rear side of the TV 1 2 1. Satellite 2. Aerial or cable If you want to connect a device to the TV, make sure that both the TV and the device are turned off before making any connection. After the connection is done, you can turn on the units and use them.

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Remote Control- 2 Inserting the Batteries into the Remote Remove the back cover to reveal the battery compartment. Insert two size AAA batteries. Make sure the (+) and (-) signs match (observe correct polarity). Do not mix old and new batteries. Replace only with same or equivalent type. Place the cover back on. 1. Standby: Switches On / Off the TV 2. Menu: Displays TV menu 3. Volume +/- 4. Guide: Displays the electronic programme guide 5. Directional buttons: Helps navigate menus, content etc. and displays the subpages in TXT mode when pressed Right or Left 6. OK: Confirms user selections, holds the page (in TXT mode), views Channels menu (DTV mode) 7. Back/Return: Returns to previous screen, previous menu, opens index page (in TXT mode). Quickly cycles between previous and current channels or sources 8. Coloured Buttons Select the coloured button you want to use from the dialogue box and press OK. Follow the on-screen instructions for coloured button functions 9. Media Playback, Record and Language Buttons Select the button you want to use from the dialogue box and press OK Use the media buttons to control the playback of the media. Control elements to play, pause, stop, rewind and fast forward the media will be available. Select the REC button and press OK to record a programme or select the Pause(II) button and press OK to start timeshift recording Select the LANG. button and press OK to switch among sound modes (analogue TV), display and change audio/subtitle language and turn subtitles on or off (digital TV, where available) 10. Prime Video: Launches the Amazon Prime Video application 11. Netflix: Launches the Netflix application 12. Freeview Play: Connects to the Freeview Play platform where you can access available catch-up TV services 13. Numeric, Text and CEC Buttons Select the button you want to use from the dialogue box and press OK Use the numeric buttons to switch the channel, enter a number or a letter in the text box on the screen. Select the TEXT button and press OK to display teletext (where available). Press again to superimpose the teletext over a normal broadcast picture (mix) Select the CEC button and press OK to terminate the function that enables you to control the connected CEC device with the TV remote. 14. Exit: Closes and exits from displayed menus or returns to previous screen 15. Source: Shows available broadcast and content sources 16. Programme +/-

First Time Installation When turned on for the first time, the language selection screen is displayed. Select the desired language and press OK. In the following steps of the installation guide, set your preferences using the directional buttons and OK button. On the second screen set your country

preference. Depending on the Country selection you may be asked to set and confirm a PIN at this point. The selected PIN cannot be 0000. You have to enter it if you are asked to enter a PIN for any menu operation later. You can activate Store Mode option in the next step. This option will configure your TV's settings for store environment and depending on the TV model being used, the supported features of it may be displayed on the side of the screen as an info banner. This option is intended only for store use. It is recommended to select Home Mode for home use. This option will be available in Settings>System>More menu and can be turned off/on later. Make your selection and press OK to continue. Depending on the model of your TV and the country selection Privacy Settings menu may appear at this point. Using this menu you can set your privacy privileges. Highlight a feature and use Left and Right directional buttons to enable or disable. Read the related explanations displayed on the screen for each highlighted feature before making any changes. You can use Programme +/- buttons to scroll up and down to read the entire text. You will be able to change your preferences at any time later from the Settings>System>Privacy Settings menu. If the Internet Connection option is disabled Network/Internet Settings screen will be skipped and not displayed. If you have any questions, complaints or comments regarding this privacy policy or its enforcement, please contact by email at smarttvsecurity@vosshub.com. Highlight Next and press OK button on the remote control to continue and the Network/Internet Settings menu will be displayed. Please refer to Connectivity section to configure a wired or a wireless connection. If you want your TV to consume less power in standby mode, you can disable the Wake On option by setting it as Off. After the settings are completed highlight Next and press OK button to continue. On the next screen you need to agree to the terms and conditions of Freeview Play to make use of the related services. Scroll the page to read the entire text using the up/down directional buttons or Programme +/- buttons. Highlight Yes and press OK on the remote to confirm and proceed. Highlight No and press OK to proceed without confirmation. For further requirements for Freeview Play services refer to the Freeview Play Platform section. On next screen you can set broadcast types to be searched, set your encrypted channel searching and time zone (depending on the country selection) preferences. Additionally you can set a broadcast type as your favourite one. Priority will be given to the selected broadcast type during the search process and the channels of it will be listed on the top of the channel list. When finished, highlight Next and press OK to continue.

Settings Menu Contents

Sound Menu Contents

Network Menu Contents

Installation Menu Contents

System Menu Contents

General TV Operation Using the Channel List The TV sorts all stored stations in the channel list. You can edit this channel list, set favourites or set active stations to be listed by using the Channels menu options. Press the OK button to open the channel list. You can filter the listed channels or make advanced changes in the current list using the Filter and Edit tab options.

Highlight the tab you want and press OK to see available options. Managing the Favourite Lists

You can create four different lists of your favourite channels. Enter the TV>Channels menu or press the OK button in order to open the Channels menu. Highlight the Edit tab and press OK to see the editing options and select the Tag/Untag channel option. Select the desired channel on the list by pressing the OK button while the channel is highlighted. You can make multiple choices. You can also use the Tag/ Untag all option to select all channels on the list. Then press Back/Return button to return to the Edit menu options. Select Add/Remove Favourites option and press the OK button again. Favourite channel list options will be displayed. Set the desired list option to On. The selected channel/s will be added to the list. In order to remove a channel or channels from a favourite list follow the same steps and set the desired list option to Off. You can use the filtering function in the Channels menu to filter the channels in the channel list permanently according to your preferences. For instance, using the options of the Filter tab, you can set one of your four favourite lists to be displayed every time the channel list is opened.

Configuring Parental Settings

The Parental menu options can be used to prohibit users from viewing of certain programmes, channels and using of menus. These settings are located in the Settings>System>Parental menu. To display parental lock menu options, a PIN should be entered. After coding the correct PIN, Parental menu will be displayed.

Menu Lock: This setting enables or disables access to all menus or installation menus of the TV.

Guidance: This setting enables or disables access some of the MHEG applications. Disabled applications can be released by entering the right PIN.

Internet Lock: If this option is set to On, the internet using applications will be disabled. Set to Off to release these applications again.

Set PIN: Defines a new PIN number.

Default CICAM PIN: This option will appear as greyed out if no CI module is inserted into the CI slot of the TV. You can change the default PIN of the CI CAM using this option. Note: Default PIN could have been set to 0000 or 1234. If you have defined the PIN(is requested depending on the country selection) during the First Time Installation use the PIN that you have defined. Some options may not be available depending on the model and/or on the country selection in the First Time Installation.

Electronic Programme Guide

By means of electronic programme guide function of your TV you can browse the event schedule of the currently installed channels on your channel list. It depends on the related broadcast whether this feature is supported or not. To access the programme guide, press the Guide button on your remote. You can also use the Guide option under TV menu. There are 2 different types of schedule layouts available, Timeline Schedule and Now/Next. To switch between these layouts highlight the tab with the name of the alternative layout on the upper side of the screen and press OK. Use the directional buttons to navigate through the programme guide. Use the Back/Return button to use the tab options on the upper side of the screen.

Timeline Schedule

In this layout option, all events of the listed channels will be displayed by timeline. You can use the directional buttons to scroll through the list of the events. Highlight an event and press OK to display event options menu. Press Back/Return button to use available tab options.

Highlight Filter

tab and press OK to see the filtering options. To change the layout highlight Now/Next and press OK. You can use the Previous Day and Next Day options to display the events of the previous and next day. Highlight Extras tab and press OK to access below options.

Highlight Genre: Displays

Highlight Genre menu. Select a genre and press OK. The events in the programme guide

matching the selected genre will be highlighted. Guide Search: Displays searching options. Using these options, you can search the programme guide database in accordance with the selected criteria. Matching results will be listed. Now: Displays current event of the highlighted channel. Zoom: Highlight and press OK to see events in a wider time interval. Now/Next Schedule In this layout option, only the current and next events of the listed channels will be displayed. You can use the directional buttons to scroll through the list of the events. English - 21 - Press Back/Return button to use available tab options. Highlight Filter tab and press OK to see the filtering options. To change the layout highlight Timeline Schedule and press OK. Event Options Use the directional buttons to highlight an event and press OK button to display Options menu. The following options are available. Select Channel: Using this option, you can switch to the selected channel in order to watch it. The programme guide will be closed. More Info: Display detailed information on the selected event. Use up and down directional buttons to scroll through the text. Set Timer on Event / Delete Timer on Event: Select Set Timer on Event option and press OK. You can set timers for future events. To cancel an already set timer, highlight that event and press the OK button. Then select Delete Timer on Event option. The timer will be cancelled. Record / Delete Rec. Timer: Select the Record option and press the OK button. If the event is going to be broadcasted at a future time, it will be added to Timers list to be recorded. If the selected event is being broadcasted at the moment, recording will start immediately. To cancel an already set record timer, highlight that event and press the OK button and select the option Delete Rec. Timer. The record timer will be cancelled. IMPORTANT: Connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature. Notes: You cannot switch to any other channel while there is an active recording or timer on the current channel. It is not possible to set timer or record timer for two or more individual events at the same time interval. Integrated Catch-Up Services You can enjoy Freeview Play catch-up TV services that work directly through the electronic programme guide. Whilst you are on a channel use the directional buttons to scroll back in time through the timelinebased guide. You will see contents from last few days. Available catch-up contents may change according to broadcasters and will be marked with a play icon. Highlight the content you want to play back and press the OK button. Make sure that your TV is connected to your home network in order to use the catch-up services. For further information regarding this matter and other requirements for Freeview Play services refer to the Connectivity and Freeview Play Platform sections. Teletext Services (where available) Press the Text button to enter. Press again to activate mix mode, which allows you to see the teletext page and the TV broadcast at the same time. Press once more to exit. If available, sections in the teletext pages will become colour-coded and can be selected by pressing the coloured buttons. Follow the instructions displayed on the screen. Digital Teletext Press the Text button to view digital teletext information. Operate it with the coloured buttons, cursor buttons and the OK button. The operation method may differ depending on the contents of the digital teletext. Follow the instructions displayed on the digital teletext screen. When the Text button is pressed again, the TV returns to television broadcast. MHEG Teletext With digital terrestrial broadcasting (DVB-T), in addition to pictures and sound, you can also view digital teletext. Digital teletext is sometimes broadcast at the same time with the normal broadcasting. • Press the Text or Red button • The digital teletext information appears •

Operate it with the coloured buttons, directional buttons and OK button. The operation method may differ depending on the contents of the digital teletext. Follow the instructions displayed on digital teletext screen. Press the Text button to return to television broadcast. BBC Red Button+ (RB+)

While watching BBC channels, press the Red button or Text button to access Red Button+ services provided by the BBC. On the opening page you can access to BBC's main services such as BBC iPlayer, BBC News, BBC Sport and many others. There are also links to the home pages of the related applications available. Use the navigation buttons on the TV's remote control to move through the application. Press Exit button to close and exit.

Software Upgrade

Your TV is capable of finding and updating the firmware automatically via the broadcast signal or via Internet.

Software upgrade search via user interface

On the main menu select Settings>System and then More. Navigate to Software upgrade and press the OK button. Then select Scan for upgrade and press OK button to check for a new software upgrade. If a new upgrade is found, it starts to download the upgrade. After the download is completed, a warning will be displayed, press OK button to complete software upgrade process and restart TV.

English - 22 - 3 AM search and upgrade mode

Your TV will search for new upgrades at 3:00 o'clock if Automatic scanning option is set to Enabled and if the TV is connected to an aerial signal or to Internet. If a new software is found and downloaded successfully, it will be installed at the next power on. Note: Do not unplug the power cord while led is blinking during the reboot process. If the TV fails to come on after the upgrade, unplug, wait for two minutes then plug it back in. All updates are automatically controlled. If a manual search is carried out and no software is found then this is the current version.

Troubleshooting & Tips

TV will not turn on • Make sure the power cord is plugged in securely to a wall outlet. Press the Power button on the TV.

Poor picture • Check if you have correctly tuned the TV. • Low signal level can cause picture distortion. Please check antenna connections. • Check if you have entered the correct channel frequency if you have performed manual tuning.

No picture • TV is not receiving any signal. Make sure the correct source has been selected. • Is the antenna connected properly? • Is the antenna cable damaged? • Are suitable plugs used to connect the antenna? • If you are in doubt, consult your dealer.

No sound • Check if the TV sound is muted. Press the Mute button or increase the volume to check. • Sound is coming from only one speaker. Check the balance settings from Sound menu.

Remote control - no operation • The batteries may be exhausted. Replace the batteries. • The batteries maybe inserted incorrectly. Refer to the section "Inserting the Batteries into the Remote".

No signal on an input source • It is possible that no device is connected. • Check the AV cables and connections from your device. • Check the device is switched on.

Recording unavailable To record a programme, you should first correctly connect a USB storage device to your TV, while the TV is switched off. You should then switch on the TV to enable the recording feature. If you cannot record, check the storage device is correctly formatted and there is sufficient space.

USB is too slow If a "USB storage device writing speed too slow to record" message is displayed on the screen while starting a recording, try restarting the recording. If you still get the same error, it is possible that your USB storage device does not meet the speed requirements. Try using a different USB storage device.

Connectivity Wired Connectivity To Connect to a Wired Network • You must have a modem/router connected to an active broadband connection. • Connect your TV to your modem/router via an Ethernet cable. There is a LAN port at the rear (back) of your TV. 2 3 1 1. Broadband ISP connection 2. LAN (Ethernet) cable 3. LAN input on the rear side of the TV To configure wired settings refer to the Network section in the Settings menu. • You might be able to connect your TV to your LAN depending on your network's configuration. In such a case, use an Ethernet cable to connect your TV directly to the network wall outlet. 1 2 1. Network wall socket 2. LAN input on the rear side of the TV Configuring Wired Device Settings Network Type The Network Type can be selected as Wired Device, Wireless Device or Disabled, in accordance with the active connection to the TV set. Select this as Wired Device if you are connecting via an Ethernet cable. Internet Speed Test Highlight Internet Speed Test and press the OK button. TV will check the internet connection bandwidth and display the result when complete. Advanced Settings Highlight Advanced Settings and press the OK button. On the next screen you can change the IP and DNS settings of the TV. Highlight the desired one and press Left or Right button to change the setting from Automatic to Manual. Now you can enter the Manual IP and / or Manual DNS values. Select the related item in the drop down menu and enter the new values using the numeric buttons of the remote. Highlight Save and press the OK button to save settings when complete. Wireless Connectivity To Connect to a Wireless Network The TV cannot connect to the networks with a hidden SSID. To make your modem's SSID visible, you should change your SSID settings via the modem's software. 1 1. Broadband ISP connection A Wireless-N router (IEEE 802.11a/b/g/n) with simultaneous 2.4 and 5 GHz bands is designed to increase bandwidth. These are optimized for smoother and faster HD video streaming, file transfers and wireless gaming. • The frequency and channel differ depending on the area. • The transmission speed differs depending on the distance and number of obstructions between the transmission products, the configuration of these products, the radio wave conditions, the line traffic and the products that you use. The transmission may also be cut off or may get disconnected depending on the radio wave conditions, DECT phones or any other WLAN 11b appliances. The standard values of the transmission speed are the theoretical maximum values for the wireless standards. They are not the actual speeds of data transmission. • The location where the transmission is most effective differs depending on the usage environment. English - 28 - • The Wireless feature of the TV supports 802.11 a,b,g & n type modems. It is highly recommended that you should use the IEEE 802.11n communication protocol in order to avoid any possible problems while watching videos. • You must change your modem's SSID when there are any other modems around with the same SSID. You can encounter connection problems otherwise. Use a wired connection if you experience problems with a wireless connection. Configuring Wireless Device Settings Open the Network menu and select Network Type as Wireless Device to start connection process. Highlight Scan Wireless Networks option and press OK to start a search for available wireless networks. All found networks will be listed. Highlight your desired network from the list and press OK to connect. Note: If the modem supports N mode, you should set N mode settings. If the selected network is password-protected, enter the correct key by using the virtual keyboard. You can use this keyboard via the directional buttons and the OK button on the remote control. Wait until the IP address is shown on the screen. This means

that the connection is now established. To disconnect from a wireless network, highlight Network Type and press Left or Right buttons to set as Disabled. If your router has WPS, you can directly connect to the modem/router without entering a password or adding the network first. Highlight Press WPS on your wifi router option and press OK. Go to your modem/router device and press the WPS button on it to make the connection. You will see a connection confirmation on your TV once the devices have paired. Select OK to proceed. No further configuration is required. Highlight Internet Speed Test and press the OK button to check your internet connection speed. Highlight Advanced Settings and press the OK button to open the advanced setting menu. Use directional and numeric buttons to set. Highlight Save and press the OK button to save settings when complete. Other Information The status of the connection will be displayed as Connected or Not Connected and the current IP address, if a connection is established. Connecting to your mobile device via WLAN • If your mobile device has WLAN feature, you can connect it to your TV via a router, in order to access the content in your device. For this, your mobile device must have an appropriate sharing software. Connect your TV to your router following the steps mentioned in the sections above. Afterwards, connect your mobile device to the router and then activate the sharing software on your mobile device. Then, select files that you want to share with your TV. If the connection is established correctly, you will be able to access the shared files installed on your mobile device via the AVS(audio video sharing) feature of your TV. Highlight the AVS option in the Sources menu and press OK, available media server devices in the network will be displayed. Select your mobile device and press the OK button to continue. • If available, you can download a virtual remote controller application from the server of your mobile device application provider. Note: This feature may not be supported on all mobile devices. Wake ON Wake-on-LAN (WoL) and Wake-on-Wireless LAN (WoWLAN) are standards that allow a device to be turned on or woken up by a network message. The message is sent to the device by a program executed on a remote device connected to the same local area network, such as a smartphone. Your TV is WoL and WoWLAN compatible. This feature might be disabled during the First Time Installation process. To enable this feature set the Wake On option in the Network menu as On. It is necessary that both the device, from which the network message will be sent to the TV, and the TV are connected to the same network. Wake On feature is only supported for Android OS devices and can only be used via YouTube and Netflix applications. In order to use this feature the TV and the remote device should be connected at least once while the TV is on. If the TV is powered off, the connection should be re-established, the next time it is switched on. Otherwise this feature will be unavailable. This does not apply, when the TV is switched into the standby mode. If you want your TV to consume less power in standby mode, you can disable this feature by setting the Wake On option as Off. Wireless Display Wireless Display is a standard for streaming video and sound content. This feature provides the ability to use your TV as wireless display device. Using with mobile devices There are different standards which enable sharing of screens including graphical, video and audio content between your mobile device and TV. Plug the wireless USB dongle to TV first, if the TV doesn't have internal WLAN feature. English - 29 - Then press the Source button on the remote and switch to Wireless Display source. A screen appears stating that the TV is ready for connection. Open the sharing application on your mobile device. These applications are named

differently for each brand, refer to the instruction manual of your mobile device for detailed information. Scan for devices. After you select your TV and connect, the screen of your device will be displayed on your TV. Note: This feature can be used only if the mobile device supports this feature. If you experience problems with the connection check if the operating system version you use supports this feature. There may be incompatibility problems with the operating system versions which are released after the production of this TV. Scanning and connecting processes differ according to the programme you use. Connecting Bluetooth Devices (optional) Your TV supports Bluetooth wireless connection technology too. A pairing is required before using Bluetooth devices with the TV set. You should do the following to pair your device with the TV: • Set the device to pairing mode • Start device discovery on the TV Note: Refer to the user manual of the Bluetooth device to learn how to set the device to pairing mode. You can connect audio devices or remote controllers to your TV using the Bluetooth wireless technology. Unplug or switch off any other connected audio device in order for wireless connection feature to work correctly. For audio devices you should use the Bluetooth option in the Settings>Sound menu, for remote controllers the Smart Remote option in the Settings>System>More menu. Select the menu option and press the OK button to open the related menu. Using this menu you can discover and connect the devices that use the Bluetooth wireless technology and start to use them. Follow the onscreen instructions. Start the device discovery. A list of available Bluetooth devices will be displayed. Select the device you want to connect from the list and press the OK button to connect. If "Device connected" message is displayed, the connection is successfully established. If the connection fails try it again. Image transfer and audio streaming You can also use Bluetooth connection to transfer images or stream audio from your mobile device to your TV. Pair the mobile device and the TV as described before. Start a device search in your hand-held device. Select your TV from listed devices. Confirm the request for connection on your TV screen and do the same on your hand held device screen. If no pairing is done, image transfer or audio streaming to the TV will not be possible. The images sent by mobile device will be displayed on the TV without confirmation request, if the image file is suitable. You can also save the image file to a connected USB memory drive or set as boot logo, if this feature is supported and the file is suitable. Press the Exit button to terminate displaying the image. The audio will be routed through the speakers of the TV, after confirmation is given. To start audio streaming unpair the device from your TV if it is paired with your TV previously. After pairing is completed, a confirmation message will be displayed asking whether you want to start audio streaming from your mobile device. Select Yes and press the OK button on the remote of the TV. If the connection is succeeded, all audio will be routed through the speakers of the TV. A symbol will appear on the upper side of the TV screen as long as the audio streaming connection is active. To terminate the audio streaming, you should turn off the Bluetooth connection of your mobile device. Close all running applications and all the menus on the TV for a trouble-free transfer. Only image files with sizes smaller than 5 MB and in the following file formats are suitable; .jpg, .jpeg, .png, bmp. If a file sent by the mobile device does not suit these requirements, it will not be displayed on the TV. Note: Wireless devices may operate within the same radio frequency range and may interfere with one another. To improve the performance of your wireless device place it at least 1 meter away from any other wireless devices. Connectivity

Troubleshooting Wireless Network Not Available • Ensure that any firewalls of your network allow the TV wireless connection. • Try searching for wireless networks again, using the Network menu screen. If the wireless network does not function properly, try using the wired network in your home. Refer to the Wired Connectivity section for more information on the process. If the TV does not function using the wired connection, check the modem (router). If the router does not have a problem, check the internet connection of your modem. Connection is Slow See the instruction book of your wireless modem to get information on the internal service area, connection speed, signal quality and other settings. You need to have a high speed connection for your modem.

Disruption during playback or slow reactions You could try the following in such a case: Keep at least three meters distance from microwave ovens, mobile telephones, Bluetooth devices or any other WLAN compatible devices. Try changing the active channel on the WLAN router.

English - 30 - Internet Connection Not Available / Audio Video Sharing Not Working If the MAC address (a unique identifier number) of your PC or modem has been permanently registered, it is possible that your TV might not connect to the internet. In such a case, the MAC address is authenticated each time when you connect to the internet. This is a precaution against unauthorized access. Since your TV has its own MAC address, your internet service provider cannot validate the MAC address of your TV. For this reason, your TV cannot connect to the internet. Contact your internet service provider and request information on how to connect a different device, such as your TV, to the internet. It is also possible that the connection may not be available due to a firewall problem. If you think this causes your problem, contact your internet service provider. A firewall might be the reason of a connectivity and discovery problem while using the TV in Audio Video Sharing mode or while browsing via Audio Video Sharing feature.

Invalid Domain Ensure that you have already logged on to your PC with an authorized username/password and also ensure that your domain is active, prior to sharing any files in your media server program on your PC. If the domain is invalid, this might cause problems while browsing files in Audio Video Sharing mode.

Using Audio Video Sharing Network Service Audio Video Sharing feature uses a standard that eases the viewing process of digital electronics and makes them more convenient to use on a home network. This standard allows you to view and play photos, music and videos stored in the media server connected to your home network.

1. Server Software Installation The Audio Video Sharing feature cannot be used if the server programme is not installed onto your PC or if the required media server software is not installed onto the companion device. Prepare your PC with a proper server programme.
2. Connect to a Wired or Wireless Network See the Wired/Wireless Connectivity chapters for detailed configuration information.
3. Enable Audio Video Sharing Enter the Settings>System>More menu and enable the AVS option.
4. Play Shared Files via Media Browser Highlight the AVS option in the Sources menu by using the directional buttons and press OK. Available media server devices in the network will be listed. Select one and press OK to continue. The media browser will then be displayed. Refer to the Media Browser menu section for further information on file playback. If a problem occurs with the network, switch your television off at the wall socket and back on again. Trick mode and jump are not supported with the Audio Video Sharing feature. PC/HDD/Media Player or any other devices that are compatible should be used with a wired connection for higher playback quality. Use a LAN connection for quicker file sharing

between other devices like computers. Note: There may be some PC's which may not be able to utilize the Audio Video Sharing feature due to administrator and security settings (such as business PC's). Apps You can access the applications installed on your TV from Apps menu. Highlight an app and press OK to launch. In order to manage the apps installed on your TV, add new apps from the market or to see all available apps in full screen mode highlight the Add More option and press OK. Using this menu option you can add an installed app to Home menu, launch or remove it. Removed apps will no longer be accessible from Apps menu. You can also add new apps from the market. In order to enter the market highlight the shopping basket logo located on the upper left side of the screen and press OK. Available apps in the market will be displayed. Use directional buttons to highlight an app and press OK. Highlight Add to Apps option and press OK again to add the selected app to Apps menu. For quick access to Add More menu you can press the Internet button on the remote, if this button is available. Notes: Possible application dependent problems may be caused by the content service provider. Third party internet services may change, be discontinued or restricted at any time. Freeview Play Platform Freeview Play platform provides catch-up TV and On Demand services. Simply press the Freeview Play button on your remote control to connect to the Freeview Play platform. The Freeview Play platform can also be accessed from the Home and Apps menus. Press Menu button and select Home or Apps. Then highlight Freeview Play and press the OK button. You will have to agree to the terms and conditions for Freeview Play services first if you did not agree them during the First Time Installation. Highlight Yes and press OK on the remote to confirm and proceed. Integrated TV Player applications will be displayed. Select one and press the OK button. Then select a English - 31 - content that you want to play back and press the OK button to watch. Catch-up contents can also be accessed and played back directly from the TV Guide. Refer to the section Electronic Programme Guide for more information. Requirements The Freeview Play services may only be used if the following requirements are fulfilled:

- Connecting the TV to the internet. A minimum broadband speed of 2Mbps is required for proper operation of catch up and on demand services.
- Agreeing to the terms and conditions of Freeview Play Note: Freeview Play platform usage will count towards any monthly broadband data allowance. Only selected channels provide 7-day catch up.

Internet Browser To use the internet browser, enter the Apps menu first. Then launch the internet browser application which has an orange coloured logo with earth symbol on it. In the initial screen of the browser, the thumbnails of the predefined (if any) links to web sites available will be displayed as Speed Dial options along with the Edit Speed Dial and the Add to Speed Dial options. To navigate the web browser, use the directional buttons on the remote or a connected mouse. To see the browser options bar, move the cursor to the top of the page or press the Back/Return button. History, Tabs and Bookmarks options and the browser bar which contains previous/next buttons, the refresh button, the address/search bar, the Speed Dial and the View buttons are available. To add a desired website to the Speed Dial list for quick access, move the cursor to the top of the page or press the Back/Return button. The browser bar will appear. Highlight the Speed Dial - button and press the OK button. Then select Add to Speed Dial option and press the OK button. Fill in the blanks for Name and Address, highlight OK and press the OK button to add. Whilst you are on the site you wish to add to the Speed Dial list, highlight the View button and press the OK

button. Then highlight Add to Speed Dial option in the submenu and press the OK button again. Name and Address will be filled automatically according to the site you are visiting. Highlight OK and press the OK button to add. You can also use the View menu options to manage the browser. Highlight the View button and press the OK button to see available page specific and general options. There are various ways to search or visit websites using the web browser. Enter the address of a website(URL) into the search/ address bar and highlight the Submit button on the virtual keyboard and press the OK button to visit the site. Enter keyword/s into the search/address bar and highlight the Submit button on the virtual keyboard and press the OK button to start a search for the related websites. Highlight a Speed Dial thumbnail and press the OK button to visit the related website. Your TV is compatible with USB mice. Plug your mouse or wireless mouse adaptor into the USB input of your TV for easier and quicker navigation. Some web pages include flash content. These are not supported by the browser. Your TV does not support any download processes from the internet via the browser. All sites on the internet might not be supported. According to the site; content problems may occur. In some circumstances video contents might not be able to be played. HBBTV System HbbTV (Hybrid Broadcast Broadband TV) is a new industry standard that seamlessly combines TV services delivered via broadcast with services delivered via broadband and also enables access to Internet only services for consumers using connected TVs and settop boxes. Services delivered through HbbTV include traditional broadcast TV channels, catch-up services, video-on-demand, electronic programme guide, interactive advertising, personalisation, voting, games, social networking and other multimedia applications. HbbTV applications are available on channels where they are signalled by the broadcaster (currently various channels on Astra broadcast HbbTV applications). The broadcaster marks one application as "autostart" and this one is started by the platform automatically. The autostart applications are generally launched with a small red button icon to notify the user that there is an HbbTV application on that channel. Press the red button to open the application page. After the page is displayed you can go back to the initial red button icon state by pressing the red button again. You can toggle between the red button icon mode and full UI mode of the application via pressing red button. It should be noted that the red button switching capability is provided by the application and some application may behave differently. If you switch to another channel while an HbbTV application is active (either in red button icon mode or full UI mode), the following scenarios can occur. • The application can continue running. • The application can be terminated. • The application can be terminated and another autostart red button application can be launched.

English - 32 - HbbTV allows the applications to be retrieved both from broadband or broadcast. The broadcaster may enable both ways or one of them. If the platform does not have an operational broadband connection, the platform can still launch applications transmitted on broadcast. The autostart red button applications generally provide links to other applications. The user then can switch to other applications by using the links provided. The applications should provide a way to terminate themselves, usually Exit button is used for this. HbbTV applications use keys on the remote control to interact with the user. When an HbbTV application is launched, the control of some keys are owned by the application. For example, numeric channel selection may not work on a teletext application where the numbers indicate teletext pages. HbbTV requires AV

streaming capability for the platform. There are numerous applications providing VOD (video on demand) and catch-up TV services. The user can use play, pause, stop, forward, and rewind keys on the remote control to interact with the AV content. Note: You can enable or disable this feature from the More menu in Settings>System menu. Depending on the model of your TV and the selected country option in the First Time Installation this feature might be available in the Settings>System>Privacy Settings menu instead of the Settings>System>More menu. Smart Center Smart Center is a mobile application running on iOS and Android platforms. With your tablet or phone, you can easily stream your favourite live shows and programmes from your smart TV. Also; you can launch your applications, use your tablet as a remote control for your TV and share media files. Note: Being able to use all functions of this application depends on the features of your TV. Getting Started To use Smart Center features, connections have to be done properly. To get connected to your network wirelessly, plug in the WLAN dongle to one of the USB ports if your TV doesn't have internal WLAN feature. To be able to use internet based features, your modem/ router must be connected to the internet. IMPORTANT: Make sure the TV and mobile device are connected to the same network. For media sharing feature Audio Video Sharing option should be enabled(if available). Press the Menu button on the remote, select Settings>System>More menu and press OK. Highlight AVS and change as Enabled. Your TV is ready to connect to your mobile device now. Install the Smart Center application onto your mobile device. Start the Smart Center application. If all connections are configured properly, you will see your TV's name on your mobile device. If your TV's name doesn't appear on the list, wait a while and tap on the Refresh widget. Select your TV from the list. Mobile Device screen On the main screen you can find tabs to access various features. The application retrieves actual channel list from TV first when it starts. MY CHANNELS: The programmes of first four channels from the channel list retrieved from the TV are shown. You can change the listed channels. Press on the channel thumbnail and hold. A list of channels will be displayed and you can choose your desired channel to be replaced. TV: You can watch content through the TV tab. In this mode you can navigate through the channel list retrieved from your TV and click on thumbnails to view the detail pages. RECORDINGS: You can view your active recordings(if available) and reminders through this tab. To delete any item, simply press on the delete icon found on each row. EPG(Electronic programme guide): You can view the broadcast schedules of selected channel lists through this tab. You can also navigate through channels by pressing on the selected channel on the EPG grid. Please note that updating / refreshing the EPG information may take a while depending on your network and web service quality. Note: Internet connection is required for WEB based EPG information. SETTINGS: Configure the application to your liking. You can change; Auto-lock (Only in IOS): The screen of the device automatically turns off after a certain amount of time. Default is off, which means the screen will always stay on. Auto-enable FollowMeTV: FollowMeTV function (if available) will start automatically when this setting is enabled. Default is disabled. Auto-connection to TV: When enabled, your mobile device will automatically connect to last connected TV and skips the TV search screen. Change TV (Only in IOS): Shows the currently connected TV. You can press on this setting to go to the "TV search" screen and change to a different TV. Edit custom channel list: You can edit your custom channel list using this setting. Choose channel list source: You can

choose the channel list source to be used in the application. The options are “TV List” and “Custom List”. Additionally you can activate “Remember my choice” option to set the selected channel list source as a constant English - 33 - choice. In this case if the selected source is available it will be used in the application. Version No: Displays the current version of the application. Detail Page To open detail page tap on a programme. On the detail page screen you can get detailed information of the programmes you select. There are “Details”, “Cast&Crew” and “Videos” tabs to find on this page. DETAILS: This tab provides summary and information about the selected programme. Also there are links to Facebook and twitter pages of the programme selected. CAST&CREW: Shows all the people contributed to the current programme. VIDEOS: Provides videos on YouTube related to the selected programme. Note: For some functions an internet connection may be required.

FollowMe TV Feature (if available) Tap on the FOLLOW ME TV widget located at the bottom left of the screen of your mobile device to change the layout for FollowMe TV feature. Tap the play icon to start streaming of the content from the TV to your mobile device. Available if your device is in your routers operation range. Mirror Mode This mode of FollowMe TV feature is enabled by default and allows streaming the content from any other selected TV sources and Media Browser. Notes: Note that only digital(DVB-T/C/S) SD and HD channels are supported. Multilanguage audio support and subtitle on/off features are not functional. The streaming performance may change depending on the quality of your connection. Media Share Page To access the Media Share widget tap on the Uparrow on the bottom left side of the screen. If the Media Share widget is pressed, a screen is displayed where you can select the media file type to share with your TV. Note: Not all image file formats are supported. This function will not work if Audio Video Sharing feature is not supported. Smart Remote Feature You can use your mobile device as a remote control for your TV once it has connected to the TV. To use smart remote’s full features tap on the Up-arrow on the bottom left side of the screen. Voice Recognition You can tap on the Microphone() widget and manage your application, giving voice commands such as “Volume Up/Down!”, “Programme Up/Down!”. Note: This feature is only for android based devices available. Keyboard Page The keyboard page can be opened in two ways; by pressing the Keyboard() widget on the application screen or automatically by receiving a command from the TV. Requirements 1. Smart TV 2. Network connection 3. Mobile Device based on Android or iOS platform (Android OS 4.0 or higher; IOS 6 or higher version) 4. Smart Center app.(to be found on online application stores based on Android and iOS platforms) 5. Router modem 6. USB storage device in FAT32 format (required for USB Recording feature, if available) Notes: For Android devices, Normal(mdpi), Large(hdpi) and Extra Large(xhdpi) screen sizes are supported. Devices with 3” or smaller screen sizes are not supported. For iOS devices, all screen sizes are supported. User interface of the Smart Center application is subject to change according to version installed on your device. Alexa Ready Feature (optional) Alexa is Amazon’s cloud-based voice service available on many voice controlled assistant devices. Your TV is compatible with and ready to be utilized with Alexa devices. With this feature you can use your voice to control functions on your TV, such as turning on or off, changing channel or input source, controlling volume, and more. Requirements The following requirements should be fulfilled: • Alexa Ready Smart TV • Amazon Alexa device • A mobile device, such as your phone or tablet, with Smart Center and Amazon Alexa apps installed on it • Home network with

WLAN capabilities • Amazon account How to control your TV with an Amazon Alexa Device • Connect your TV and mobile device to the same network with internet access as your Alexa device. English - 34 - • Pair the Smart Center app with your TV. Then tap on the Amazon logo on the main screen of the Smart Center app. You will be directed to a registration page. Follow the on-screen instructions to complete your TV's registration and linking process. • You will be asked to determine a name for your TV, called 'Friendly Name'(FN). A 'Friendly Name' is a name that reminds you of your TV, such as 'Living Room TV', 'Kitchen TV', 'Dining Room TV', etc. Choose an easy-to-say name. You will say this name to tell Alexa which TV to control. • Pair the Alexa app on your mobile device with the Alexa device, search for the skill of your TV by the brand name and enable it in the Alexa app. For more information, you can refer to the user manual of the Alexa device. • Ask Alexa to discover your devices. Say, "discover my devices," or select Discover Devices in the related section of the Alexa app. Once the discovery process is complete, you will be able to control your TV by voice. Note: Make sure that the devices are connected to the same network. But once these pairing and linking processes are completed the Alexa device and your TV will no longer have to be on the same network. After you have performed First Time Installation on your TV, launch the Smart Center application and pair it with your TV again. Then tap on the Amazon logo on the main screen and check if you are logged in to your Amazon account, if not you might need to re-login and determine a Friendly Name again for your TV in order to be able to continue to control your TV with Alexa device.

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