# NIKKEI

# GEBRUIKSAANWIJZING OPERATING INSTRUCTIONS MODE D'EMPLOI

# **NLD24MSMART**

KLEURENTELEVISIE MET AFSTANDSBEDIENING COLOUR TELEVISION WITH REMOTE CONTROL TELEVISEUR COULEUR A TELECOMMANDE



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## **Safety Information**



## CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

In extreme weather (storms, lightning) and long inactivity periods (going on holiday) disconnect the TV set from the mains.

The mains plug is used to disconnect TV set from the mains and therefore it must remain readily operable. If the TV set is not disconnected electrically from the mains, the device will still draw power for all situations even if the TV is in standby mode or switched off.

Note: Follow the on screen instructions for operating the related features

## IMPORTANT - Please read these instructions fully before installing or operating

MARNING: Never let people (including children) with reduced physical, sensory or mental capabilities or lack of experience and / or knowledge use electrical devices unsupervised.

- Use this TV set at an altitude of less than 2000 meters above the sea level, in dry locations and in regions with moderate or tropical climates.
- · The TV set is intended for household and similar general use but may also be used in public places.
- For ventilation purposes, leave at least 5cm of free space around the TV.
- The ventilation should not be impeded by covering or blocking the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
- The power cord plug should be easily accessible. Do **not** place the TV, furniture, etc. on the power cord. A damaged power cord/plug can cause fire or give you an electric shock. Handle the power cord by the plug, **do not** unplug the TV by pulling the power cord. Never touch the power cord/plug with wet hands as this could cause a short circuit or electric shock. Never make a knot in the power cord or tie it with other cords. When damaged it must be replaced, this should only be done by qualified personnel.
- Do not expose the TV to dripping or splashing of liquids and do not place objects filled with liquids, such as vases, cups, etc. on or over the TV (e.g., on shelves above the unit).
- Do not expose the TV to direct sunlight or do not place open flames such as lit candles on the top of or near the TV.

- Do not place any heat sources such as electric heaters, radiators, etc. near the TV set.
- · Do not place the TV on the floor and inclined surfaces.
- To avoid danger of suffocation, keep plastic bags out of the reach of the babies, children and domestic animals
- · Carefully attach the stand to the TV. If the stand is provided with screws, tighten the screws firmly to prevent the TV from tilting. Do not over-tighten the screws and mount the stand rubbers properly.
- · Do not dispose of the batteries in fire or with hazardous or flammable materials.

Warning: Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

<b>A</b> Caution	Serious injury or death risk
Risk of electric shock	Dangerous voltage risk
<u> Maintenance</u>	Important maintenance component

## Markings on the Product

The following symbols are used on the product as a marker for restrictions and precautions and safety instructions. Each explanation shall be considered where the product bears related marking only. Note such information for security reasons.



Class II Equipment: This appliance is designed in such a way that it does not require a safety connection to electrical earth.

Class II Equipment With Functional



Earthing: This appliance is designed in such a way that it does not require a safety connection to electrical earth, the earth connection is used for functional purposes.



Protective Earth Connection: The marked terminal is intended for connection of the protective earthing conductor associated with the supply wiring.



Hazardous Live Terminal: The marked terminal(s) is/are hazardous live under normal operating conditions.



Caution, See Operating Instructions: The marked area(s) contain(s) user replaceable coin or button cell batteries.



Class 1 Laser Product: This product contains Class 1 laser source that is safe under reasonably foreseeable conditions of operation.

## WARNING

Do not ingest the battery, Chemical Burn Hazard

This product or the accessories supplied with the product may contain a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

## WARNING

Never place a television set in unstable or inclined locations. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as;

- Using cabinets or stands recommended by the manufacturer of the television set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not standing the television set on cloth or other materials placed between the television and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls. If your existing television set is being retained and relocated, the same considerations as above should be applied.

## WALL MOUNTING WARNINGS

- Read the instructions before mounting your TV on the wall.
- The wall mount kit is optional. You can obtain from your local dealer, if not supplied with your TV.
- Do not install the TV on a ceiling or on an inclined wall.
- Use the specified wall mounting screws and other accessories.
- Tighten the wall mounting screws firmly to prevent the TV from fall. Do not over-tighten the screws.

## **WARNING**

Apparatus connected to the protective earthing of the building installation through the MAINS connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator, see EN 60728-11)

## **Environmental Information**

This television is designed to be environment friendly. To reduce energy consumption, you can follow these steps:

If you set the Energy Saving to Minimum, Medium, Maximum or Auto the TV will reduce the energy consumption accordingly. If you like to set the Backlight to a fixed value set as Custom and adjust the Backlight (located under the Energy Saving setting) manually using Left or Right buttons on the remote. Set as Off to turn this setting off.

**Note:** Available **Energy Saving** options may differ depending on the selected **Mode** in the **System>Picture** menu.

The **Energy Saving** settings can be found in the **System>Picture** menu. Note that some picture settings will be unavailable to be changed.

If pressed Right button while **Auto** option is selected or Left button while **Custom** option is selected, "**Screen will be off in 15 seconds.**" message will be displayed on the screen. Select **Proceed** and press **OK** to turn the screen off immediately. If you don't press any button, the screen will be off in 15 seconds. Press any button on the remote or on the TV to turn the screen on again.

**Note:** Screen Off option is not available if the Mode is set to Game.

When the TV is not in use, please switch off or disconnect the TV from the mains plug. This will also reduce energy consumption.

#### **Features**

- · Remote controlled colour TV
- Fully integrated digital terrestrial/cable/satellite TV (DVB-T-T2/C/S2)
- HDMI inputs to connect other devices with HDMI sockets
- · USB input
- · OSD menu system
- Scart socket for external devices (such as DVD Players, PVR, video games, etc.)
- · Stereo sound system
- Teletext
- · Headphone connection
- · Automatic programming system
- Manual tuning
- · Automatic power down after up to eight hours.
- Sleep timer
- · Child lock
- · Automatic sound mute when no transmission.
- NTSC playback
- AVL (Automatic Volume Limiting)
- PLL (Frequency Search)
- · PC input
- · Game Mode (Optional)
- · Picture off function
- · Programme recording
- Programme timeshifting
- 802.11 a/b/g/n built in WIFI Support
- · Audio Video Sharing

## Accessories Included

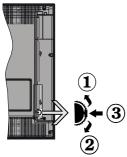
- · Remote Control
- · Batteries: 2 x AAA
- · Instruction Book

## Standby Notifications

If the TV does not receive any input signal (e.g. from an aerial or HDMI source) for 3 minutes, it will go into standby. When you next switch-on, the following message will be displayed: "TV switched to stand-by mode automatically because there was no signal for a long time." Press OK to continue.

If the TV is on and it isn't being operated for a while it will go into standby. When you next switch-on, the following message will be displayed. "TV switched to stand-by mode automatically because no operation was made for a long time." Press OK to continue.

## **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, 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 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 down and hold it down for a few seconds, the TV will turn into standby mode.

#### Notes:

- If you turn the TV off, this circle 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 screen. Use the directional buttons to select a menu tab and press **OK** to enter. Use the directional buttons again to select or set an item. 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 **Volume +/-** and **Programme +/-** buttons on the remote.

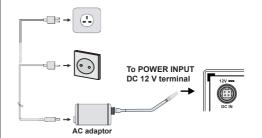
## Inserting the Batteries into the Remote

Lift the cover on the back of the remote gently. Insert two **AAA** batteries. Make sure the (+) and (-) signs match (observe correct polarity). Place the cover back on.



## **Connect Power**

**IMPORTANT:** The TV set is designed to operate on 12 V DC. For this, an adaptor is used which gives 12 V voltage. Connect this adaptor to a system that supplies 100-240V AC, 50/60Hz.



## Important safety information

# Be sure to ground the connection properly

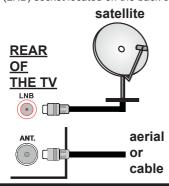
Connect the ground terminal of the AC adaptor with the ground terminal provided at the power outlet using the enclosed power cord. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.



Surely connect the ground wire.

## **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 back of the TV.



## **License Notification**

The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.



Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio and the double-D symbol are trademarks of Dolby Laboratories.

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Content owners use Microsoft PlayReady™ content access technology to protect their intellectual property, including copyrighted content. This device uses PlayReady technology to access PlayReady-protected content and/or WMDRM-protected content. If the device fails to properly enforce restrictions on content usage, content owners may require Microsoft to revoke the device's ability to consume PlayReady-protected content. Revocation should not affect unprotected content or content protected by other content access technologies. Content owners may require you to upgrade PlayReady to access their content. If you decline an upgrade, you will not be able to access content that requires the upgrade.

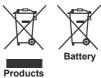
Information for Users on Disposal of Old Equipment and Batteries

[European Union only]

Equipment bearing these symbols should not be disposed as general household waste.

You should look for appropriate recycling facilities and systems for the disposal of these products.

**Notice:** The sign Pb below the symbol for batteries indicates that this battery contains lead.



Specification	
ΓV Broadcasting	PAL BG/DK/II'
1 V Broudcusting	SECAM BG/DK
Receiving Channels	VHF (BAND I/III) - UHF
Receiving Chainleis	(BAND U) - HYPERBAND
	Fully integrated digital
Digital Reception	terrestrial-cable TV
	(DVB-T2-C/S2) (DVB-T2 compliant)
Number of Preset	(BVB 12 dempliant)
Channels	1 000
Channel Indicator	On Screen Display
RF Aerial Input	75 Ohm (unbalanced)
•	, ,
Operating Voltage	100-240V AC, 50/60 Hz
Audio	German+Nicam Stereo
Audio Output Power (WRMS.) (10% THD)	2 x 2,5
Power Consumption (W)	47 W
Weight (Kg)	4,50
TV Dimensions DxLxH (with foot) (mm)	134 x 554 x 370
TV Dimensions DxLxH	
(without foot) (mm)	54/61 x 554 x 339
Display	24"
Operation temperature	0°C up to 40°C, 85%

Wireless LAN	Transmitter	<b>Specifications</b>
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and operation humidity humidity max

Frequency Ranges	Max Output Power
2400 - 2483,5 MHz (CH1-CH13)	< 100 mW
5150 - 5250 MHz (CH36 - CH48)	< 200 mW
5250 - 5350 MHz (CH52 - CH64)	< 200 mW
5470 - 5725 MHz (CH100 - CH140)	< 200 mW

## **Country Restrictions**

This device is intended for home and office use in all EU countries (and other countries following the relevant EU directive) without any limitation except for the countries mentioned below.

Country	Restriction
Bulgaria	General authorization required for outdoor use and public service
France	In-door use only for 2454-2483.5 MHz
Italy	If used outside of own premises, general authorization is required

Country	Restriction
Greece	In-door use only for 5470 MHz to 5725 MHz band
Luxembourg	General authorization required for network and service supply(not for spectrum)
Norway	Radio transmission is prohibited for the geographical area within a radius of 20 km from the centre of Ny-Ålesund
Russian Fed- eration	In-door use only

The requirements for any country may change at any time. It's recommended that user checks with local authorities for the current status of their national regulations for both 2.4 GHz and 5 GHz wireless LAN's.



## (\*) MY BUTTON 1 & MY BUTTON 2:

These buttons may have default functions depending on the model. However you can set a special function to these buttons by pressing on them for five seconds when on a desired source or channel. A confirmation message will be displayed on the screen. Now the selected MY BUTTON is associated with the selected function.

Note that if you perform **First Time Installation**, MY BUTTON 1&2 will return to their default function.

- Source: Shows all available broadcast and content sources
- 2. Netflix: Launches the Netflix application.
- 3. YouTube: Launches the YouTube application.
- 4. Play: Starts to play selected media
- 5. Record: Records programmes
- Rapid reverse: Moves frames backwards in media such as movies
- Language: Switches between sound modes (analogue TV), displays and changes audio/subtitle language (digital TV, where available)
- 8. Red button
- 9. Green button
- Numeric buttons: Switches the channel, enters a number or a letter in the text box on the screen.
- 11. TV: Displays channel list / Switches to TV Source
- 12. Menu: Displays TV menu
- **13. Internet:** Opens the portal page, where you can reach many web based applications
- 14. Volume +/-
- Back/Return: Returns to previous screen, opens index page (in TXT mode)
- 16. Favourites: Displays user specified favourite channels
- 17. Screen: Changes the aspect ratio of the screen
- 18. My button 1 (\*)
- 19. My button 2 (\*)
- Text: Displays teletext (where available), press again to superimpose the teletext over a normal broadcast picture (mix)
- 21. EPG (Electronic programme guide): Displays the electronic programme guide
- 22. Mute: Completely turns off the volume of the TV
- 23. Info: Displays information about on-screen content
- Exit: Closes and exits from displayed menus or returns to previous screen
- **25. OK:** Confirms user selections, holds the page (in TXT mode), views channel list (DTV mode)
- 26. Programme + / -
- 27. Directional buttons: Helps navigate menus, content etc. and displays the subpages in TXT mode when pressed Right or Left
- 28. Quick Menu: Displays a list of menus for quick access
- 29. Swap: Quickly cycles between previous and current channels or sources
- 30. Yellow button
- 31. Blue button
- **32. Subtitles:** Turns subtitles on and off (where available)
- Rapid advance: Moves frames forward in media such as movies
- 34. Stop: Stops the media being played
- **35.** Pause: Pauses the media being played, starts timeshift recording
- 36. Media browser: Opens the media browsing screen
- 37. Standby: Switches On / Off the TV

## Connections

Connector	Туре	Cables	Device
	Scart Connection (back)		
<ul><li>● *******</li><li>● *****</li></ul>	VGA Connection (back)		
SIDE AV	PC/YPbPr Audio Connection (side)	YPbPr/PC Audio Cable	
	HDMI Connection (back)		
SPDIF	SPDIF (Coaxial Out) Connection (back)	<b>□</b>	
SIDE AV	Side AV (Audio/Video) Connection (side)	AV Cable	
HEADPHONE	Headphone Connection (side)	«□ <b>)</b>	
<b>YPBPR</b> (a) (***********************************	YPbPr Video Connection (back)	PC to YPbPr Connection Cable	
USB VOOSE TREE TOO	USB Connection (side)		
DOMESTIC DOTTO	CI Connection (side)		CAM module
	12V DC Connection (back)	DC 12V Input	V+ V+ V-

NOTE: When connecting a device via the YPbPr or Side AV input, you must use the connection cables to enable connection. See the illustrations on the left side. | You can use YPbPr to VGA cable to enable YPbPr signal via VGA input. | You cannot use VGA and YPbPr at the same time. | To enable PC/YPbPr audio, you will need to use the Side AV input with a YPbPr/PC audio cable for audio connection, using the Side AV connection cable's RED and WHITE inputs. | If an external device is connected via the SCART socket, the TV will automatically switch to AV mode. When receiving DTV channels (Mpeg4 H.264) or while in Media Browser mode, output will not be available via the scart socket. | When using the wall mounting kit (available from third party in the market, if not supplied), we recommend that you plug all vour cables into the back of the TV before mounting on the wall. Insert or remove the CI module only when the TV is SWITCHED OFF. You should refer to the module instruction manual for details of the settings. | The/Each USB input of your TV supports devices up to 500mA. Connecting devices that have current value above 500mA may damage your TV. | By connecting an HDMI cable to your TV, you have to use only a shielded HDMI cable to guarantee a sufficient immunity against parasitic frequency radiation.



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.

## **Switching On/Off**

## To Switch the TV On

Connect the power cord to a power source such as a wall socket (100-240V AC, 50/60 Hz).

To switch on the TV from standby mode either:

- Press the Standby button, Programme +/- or a numeric button on the remote control.
- Press the side function switch on the TV until the TV comes on from standby.

## To Switch the TV Off

Press the **Standby** button on the remote control or press the side function switch on the TV until the TV switches into standby mode.

To power down the TV completely, unplug the power cord from the mains socket.

Note: When the TV is switched into standby mode, the standby LED can blink to indicate that features such as Standby Search, Over Air Download or Timer is active. The LED can also blink when you switch on the TV from standby mode.

## First Time Installation

When turned on for the first time, the language selection screen is displayed. Select the desired language and press **OK**.

On the next screen, set your preferences using the directional buttons.

**Note:** 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.

## About Selecting Broadcast Type

**Digital Aerial:** If **Digital Aerial** broadcast search option is turned on, the TV will search for digital terrestrial broadcasts after other initial settings are completed.

Digital Cable: If Digital Cable broadcast search option is turned on, the TV will search for digital cable broadcasts after other initial settings are completed. According to your other preferences a confirmation message may be displayed before starting to search. Select YES and press OK to proceed. To cancel operation, select NO and press OK. You can select Network or set values such as Frequency, Network ID and Search Step. When finished, press OK button. Note: Searching duration will change depending on the selected Search Step.

Satellite: If Satellite broadcast search option is turned on, the TV will search for digital satellite broadcasts after other initial settings are completed. Before satellite search is performed some settings should be made. Antenna Type menu will be displayed first. You can select Antenna Type as

**Direct**, **Single Satellite Cable** or **DiSEqC switch** by using "◀" or "▶" buttons.

- Direct: If you have a single receiver and a direct satellite dish, select this antenna type. Press OK to continue. Select an available satellite on the next screen and press OK to scan for services.
- Single Satellite Cable: If you have multiple receivers and a single satellite cable system, select this antenna type. Press OK to continue. Configure settings by following instructions on the next screen. Press OK to scan for services.
- DiSEqC switch: If you have multiple satellite dishes and a DiSEqC switch, select this antenna type.
   Press OK to continue. You can set four DiSEqC options (if available) on the next screen. Press OK button to scan the first satellite in the list.

**Analogue:** If **Analogue** broadcast search option is turned on, the TV will search for analogue broadcasts after other initial settings are completed.

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, press **OK** to continue.

You can activate **Store Mode** option at this point. 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 top 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 **System>Settings>More** menu and can be turned off/on later.

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>Privacy Settings** menu. If the **Internet Connection** option is disabled **Network/Internet Settings** screen will be skipped and not displayed.

Press **OK** button on the remote control to continue and the **Network/Internet Settings** menu will be displayed, if you confirm the previously displayed message asking whether you want to do the network settings. Please refer to **Connectivity** section to configure a wired or a wireless connection. After the settings are completed press **OK** button to continue. To skip to the next step without doing anything select **No** and press the **OK** button when the message is

displayed asking whether you want to do the network settings.

After the initial settings are completed TV will start to search for available broadcasts of the selected broadcast types.

After all the available stations are stored, scan results will be displayed. Press **OK** to continue. The **Edit Channel List** menu will be displayed next. You can edit the channel list according to your preferences or press the **Menu** button to quit and watch TV.

While the search continues a message may appear, asking whether you want to sort channels according to the LCN(\*). Select **Yes** and press **OK** to confirm.

(\*) LCN is the Logical Channel Number system that organizes available broadcasts in accordance with a recognizable channel number sequence (if available).

**Note:** Do not turn off the TV while initializing first time installation. Note that, some options may not be available depending on the country selection.

## Media Playback via USB Input

You can connect 2.5" and 3.5" inch (hdd with external power supply) external hard disk drives or USB memory stick to your TV by using the USB inputs of the TV.

IMPORTANT! Back up the files on your storage devices before connecting them to the TV. Manufacturer will not be responsible for any file damage or data loss. Certain types of USB devices (e.g. MP3 Players) or USB hard disk drives/memory sticks may not be compatible with this TV. The TV supports FAT32 and NTFS disk formatting but recording will not be available with NTFS formatted disks.

While formatting USB hard drives which have more than 1TB (Tera Byte) storage space you may experience some problems in the formatting process.

Wait a little while before each plugging and unplugging as the player may still be reading files. Failure to do so may cause physical damage to the USB player and the USB device itself. Do not pull out your drive while playing a file.

You can use USB hubs with your TV's USB inputs. External power supplied USB hubs are recommended in such a case.

It is recommended to use the TV's USB input(s) directly, if you are going to connect a USB hard disk.

**Note:** When viewing image files the **Media Browser** menu can only display 1000 image files stored on the connected USB device.

## Recording a Programme

**IMPORTANT:** When using a new USB hard disk drive, it is recommended that you first format the disk using your TV's **Format Disk** option in the **Media Browser>Settings>Recording Settings** menu.

To record a programme, you should first 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.

To use recording your USB drive should have 2 GB free space and be USB 2.0 compatible. If the USB drive is not compatible an error message will be displayed.

To record long duration programmes such as movies, it is recommended to use USB Hard disk drives (HDD's).

Recorded programmes are saved into the connected USB disk. If desired, you can store/copy recordings onto a computer; however, these files will not be available to be played on a computer. You can play the recordings only via your TV.

Lip Sync delay may occur during the timeshifting. Radio record is supported. The TV can record programmes up to ten hours.

Recorded programmes are split into 4GB partitions. If the writing speed of the connected USB disk is not sufficient, the recording may fail and the timeshifting feature may not be available.

It is recommended to use USB hard disk drives for recording HD programmes.

Do not pull out the USB/HDD during a recording. This may harm the connected USB/HDD.

If the AC cord is unplugged while there is an active USB-recording timer setting, it will be cancelled.

Multipartition support is available. A maximum of two different partitions are supported. The first partition of the USB disk is used for PVR ready features. It also must be formatted as the primary partition to be used for the PVR ready features.

Some stream packets may not be recorded because of signal problems, as a result sometimes videos may freeze during playback.

Record, Play, Pause, Display (for PlayListDialog) keys can not be used when teletext is on. If a recording starts from timer when teletext is on, teletext is automatically turned off. Also teletext usage is disabled when there is an ongoing recording or playback.

## Timeshift Recording

Press **Pause** button while watching a broadcast to activate timeshifting mode. In timeshifting mode, the programme is paused and simultaneously recorded to the connected USB disk.

Press **Play** button again to resume the paused programme from where you stopped. Press the **Stop** button to stop timeshift recording and return to the live broadcast.

Timeshift cannot be used while in radio mode.

You cannot use the timeshift fast reverse feature before advancing the playback with the fast forward option.

## Instant Recording

Press **Record** button to start recording an event instantly while watching a programme. You can press

**Record** button on the remote control again to record the next event after selecting the next programme from within the EPG. Press **Stop** button to cancel instant recording.

You can not switch broadcasts or view the media browser during the recording mode. While recording a programme or during the timeshifting, a warning message appears on the screen if your USB device speed is not sufficient.

## **Watching Recorded Programmes**

Select **Recordings** from the **Media Browser** menu. Select a recorded item from the list (if previously recorded). Press the **OK** button to view the **Play Options**. Select an option then press **OK** button.

**Note:** Viewing main menu and menu items will not be available during the playback.

Press the **Stop** button to stop a playback and return to the **Recordings**.

## Slow Forward

If you press **Pause** button while watching recorded programmes, the slow forward feature will be available. You can use **Rapid advance** button to slow forward. Pressing **Rapid advance** button consecutively will change slow forwarding speed.

## **Recording Configuration**

Select the **Recording Settings** item in the **Media Browser>Settings** menu to configure the recording settings.

Format Disk: You can use the Format Disk feature for formatting the connected USB disk. Your PIN is required to use the Format Disk feature.

**Note:** Default PIN can be 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.

**IMPORTANT:** Formatting your USB drive will erase ALL the data on it and it's file system will be converted to FAT32. In most cases operation errors will be fixed after a format but you will lose ALL your data.

If "USB disk 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 disk does not meet the speed requirements. Try connecting another USB disk.

## Media Browser Menu

You can play photo, music and movie files stored on a USB disk by connecting it to your TV. Connect a USB disk to one of the USB inputs located on the side of the TV. Pressing the **Menu** button while in the **Media Browser** mode will access the **Picture**, **Sound** and **Settings** menu options. Pressing the **Menu** button again will exit from this screen. You can set your **Media Browser** preferences by using the **Settings** menu.

Loop/Shuffle Mode Operation		
Start playback with the Play button and activate	All files in the list will be continuously played in original order	
Start playback with the <b>OK</b> button and activate	The same file will be played continuously (repeat)	
Start playback with the Play button and activate	All files in the list will be played once in random order	
Start playback with the Play button and activate ,	All files in the list will be continuously played in the same random order.	

## FollowMe TV (if available)

With your mobile device you can stream the current broadcast from your smart TV using the FollowMe TV feature. Install the appropriate Smart Center application to your mobile device. Start the application. For further information on using this feature refer to the instructions of the application you use.

**Note:** This application may not be compatible with all mobile devices. HD channels are not supported and both of the devices must be connected to the same network.

## CEC and CEC RC Passthrough

This function allows to control the CEC-enabled devices, that are connected through HDMI ports by using the remote control of the TV.

The CEC option in the System>Settings>More menu should be set as Enabled at first. Press the Source button and select the HDMI input of the connected CEC device from the Sources List menu. When new CEC source device is connected, it will be listed in source menu with its own name instead of the connected HDMI ports name(such as DVD Player, Recorder 1 etc.).

The TV remote is automatically able to perform the main functions after the connected HDMI source has been selected.

To terminate this operation and control the TV via the remote again, press **Quick Menu** button on the remote, highlight the **CEC RC Passthrough** and set as **Off** by pressing Left or Right button. This feature can also be enabled or disabled under the **System>Settings>More** menu.

The TV supports also ARC(Audio Return Channel) feature. This feature is an audio link meant to replace other cables between the TV and the audio system (A/V receiver or speaker system).

When ARC is active, TV does not mute its other audio outputs automatically. So you need to decrease TV volume to zero manually, if you want to hear audio from connected audio device only (same as other optical or co-axial digital audio outputs). If you want to change connected device's volume level, you should select that device from the source list. In that case volume control keys are directed to connected audio device.

Note: ARC is supported only via the HDMI1 input.

## **System Audio Control**

Allows an Audio Amplifier/Receiver to be used with the TV. The volume can be controlled using the remote control of the TV. To activate this feature set the **Speakers** option in the **System>Settings>More** menu as **Amplifier**. The TV speakers will be muted and the sound of the watched source will be provided from the connected sound system.

**Note:** The audio device should support System Audio Control feature and **CEC** option should be set as **Enabled**.

## E-Manual

You can find instructions for your TV's features in the E-Manual.

To use E-Manual, press to the **Info** button while main menu is displayed on the screen or press **Quick Menu** button, select **Information Booklet** and press **OK**. By using the directional buttons select a desired category. Every category includes different topics. Select a topic and press **OK** to read instructions.

To close the E-Manual screen press the **Exit** or **Menu** button.

**Note:** The contents of the E-Manual may vary according to the model.

## **TV Menu Contents**

Sy	System - Picture Menu Contents		
Mode		You can change the picture mode to suit your preference or requirements. Picture mode can be set to one of these options: <b>Cinema</b> , <b>Game</b> (optional), <b>Sports</b> , <b>Dynamic</b> and <b>Natural</b> .	
Contrast		Adjusts the light and dark values on the screen.	
Br	ightness	Adjusts the brightness values on the screen.	
Sh	arpness	Sets the sharpness value for the objects displayed on the screen.	
Co	lour	Sets the colour value, adjusting the colours.	
En	ergy Saving	For setting the Energy Saving to Custom, Minimum, Medium, Maximum, Auto, Screen Off or Off.  Note: Available options may differ depending on the selected Mode.	
Ва	cklight	This setting controls the backlight level. The backlight function will be inactive if the <b>Energy Saving</b> is set to an option other then <b>Custom</b> .	
Ac	vanced Settings		
	Dynamic Contrast	You can change the dynamic contrast ratio to desired value.	
	Noise Reduction	If the signal is weak and the picture is noisy, use the <b>Noise Reduction</b> setting to reduce the amount of noise.	
	Colour Temp	Sets the desired colour temperature value. <b>Cool</b> , <b>Normal</b> , <b>Warm</b> and <b>Custom</b> options are available.	
	White Point	If the <b>Colour Temp</b> option is set as <b>Custom</b> , this setting will be available. Increase the 'warmth' or 'coolness' of the picture by pressing Left or Right buttons.	
	Picture Zoom	Sets the desired image size format.	
	Film Mode	Films are recorded at a different number of frames per second to normal television programmes.  Turn this feature on when you are watching films to see the fast motion scenes clearly.	
	Skin Tone	Skin tone can be changed between -5 and 5.	
	Colour Shift	Adjust the desired colour tone.	
	HDMI Full Range	While watching from a HDMI source, this feature will be visible. You can use this feature to enhance blackness in the picture.	
PC	Position	Appears only when the input source is set to VGA/PC.	
	Autoposition	Automatically optimizes the display. Press OK to optimize.	
	H Position	This item shifts the image horizontally to the right hand side or left hand side of the screen.	
	V Position	This item shifts the image vertically towards the top or bottom of the screen.	
	Dot Clock	Dot Clock adjustments correct the interference that appear as vertical banding in dot intensive presentations like spreadsheets or paragraphs or text in smaller fonts.	
	Phase	Depending on the input source(computer etc.) you may see a hazy or noisy picture on the screen. You can use phase to get a clearer picture by trial and error.	
Re	set	Resets the picture settings to factory default settings (except <b>Game</b> mode).	
11/4	While in VCA (PC) made some items in <b>Picture</b> menu will be unavailable. Instead, VCA made settings will be added to the <b>Picture</b>		

While in VGA (PC) mode, some items in **Picture** menu will be unavailable. Instead, VGA mode settings will be added to the **Picture Settings** while in PC mode.

System - Sound Menu Contents		
Volume	Adjusts the volume level.	
Equalizer	Selects the equalizer mode. Custom settings can be made only when in <b>User</b> mode.	
Balance	Adjusts whether the sound comes from the left or right speaker.	
Headphone	Sets headphone volume.  Please ensure before using headphones that the headphone volume is set to a low level, to prevent damage to your hearing.	
Sound Mode	You can select a sound mode (If the viewed channel supports).	
AVL (Automatic Volume Limiting)	Sets the sound to obtain fixed output level between programmes.	
Handahana/I imaaya	When you connect an external amplifier to your TV using the headphone jack, you can select this option as <b>Lineout</b> . If you have connected headphones to the TV, set this option as <b>Headphone</b> .	
Headphone/Lineout	Please ensure before using headphones that this menu item is set to <b>Headphone</b> . If it is set to <b>Lineout</b> , the output from the headphone socket will be set to maximum which could damage your hearing.	
Dynamic Bass	Enables or disables the Dynamic Bass.	
Surround sound	Surround sound mode can be changed as <b>On</b> or <b>Off</b> .	
Digital Out	Sets digital out audio type.	

System - Settings Menu Contents			
Condition	al Access	Controls conditional access modules when available.	
Language		You may set a different language depending on the broadcaster and the country.	
Privacy Settings (*)		Manage your privacy privileges for smart TV related applications. Press <b>OK</b> to enter the menu and set according to your preferences.	
Parental		Enter correct password to change parental settings. You can easily adjust Menu Lock, Maturity Lock, Child Lock or Guidance in this menu. You can also set a new PIN or change the Default CICAM PIN using the related options.  Note: Some menu options may not be available depending on the country selection in the First Time Installation. Default PIN can be 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.	
Timers		Sets sleep timer to turn off the TV after a certain time. Sets timers for selected programmes.	
Date/Time		Sets date and time.	
Sources		Enables or disables selected source options.	
Network/Ir Settings	nternet	Displays network/internet settings.	
Accessibil	lity	Displays accessibility options of the TV.	
Hard o	of Hearing	Enables any special feature sent from the broadcaster.	
Audio Descri	ption	A narration track will be played for the blind or visually impaired audience. Press <b>OK</b> to see all available <b>Audio Description</b> menu options. This feature is available only if the broadcaster supports it.	
		Note: Audio description sound feature is not available in recording or time shifting mode.	
Netflix		You can view your ESN(*) number and deactivate Netflix.  (*) ESN number is an unique ID number for Netflix, created especially to identify your TV.	
More		Displays other setting options of the TV.	
Menu 7	Timeout	Changes timeout duration for menu screens.	
Softwa Upgrad		Ensures that your TV has the latest firmware. Press <b>OK</b> to see the menu options.	
Application Version		Displays current software version.	
Subtitl	le Mode	This option is used to select which subtitle mode will be on the screen ( <b>DVB</b> subtitle / <b>Teletext</b> subtitle) if both is available. Default value is <b>DVB</b> subtitle. This feature is available only for the country option of Norway.	
Auto T	V OFF	Sets the desired time for the TV to automatically go into standby mode when not being operated.	
Store I	Mode	Select this mode for store display purposes. Whilst <b>Store Mode</b> is enabled, some items in the TV menu may not be available.	
Audio Sharin		Audio Video Sharing feature allows you to share files stored on your smartphone or tablet pc. If you have a compatible smartphone or tablet pc and the appropriate software is installed, you can share/play photos on your TV. See instructions of your sharing software for more information. Audio Video Sharing mode will not be available with internet portal feature.	

Power Up Mode	This setting configures the power up mode preference. Last State and Standby options are available.			
Virtual Remote	Enable or disable the virtual remote feature.			
CEC	With this setting you can enable and disable CEC functionality completely. Press Left or Right button to enable or disable the feature.			
CEC Auto Power On	This function allows the connected HDMI-CEC compatible device to turn on the TV and switch to its input source automatically. Press <b>Left</b> or <b>Right</b> button to enable or disable the feature.			
Speakers	To hear the TV audio from the connected compatible audio device set as <b>Amplifier</b> . You can use the remote control of the TV to control the volume of the audio device.			
Show All Cookies (*)	Displays all saved cookies.			
Delete All Cookies (*)	Deletes all saved cookies.			
oss	Displays Open Source Software license information.			

(\*) These features may not be available depending on the model of your TV and the selected country in the First Time Installation.

Installation M	Installation Menu Contents			
Automatic channel scan (Retune)	Displays automatic tuning options. <b>Digital Aerial:</b> Searches and stores aerial DVB stations. <b>Digital Cable:</b> Searches and stores cable DVB stations. <b>Analogue:</b> Searches and stores analogue stations. <b>Satellite:</b> Searches and stores satellite stations.			
Manual channel scan	This feature can be used for direct broadcast entry.			
Network channel scan	Searches for the linked channels in the broadcast system. <b>Digital Aerial:</b> Searches for aerial network channels. <b>Digital Cable:</b> Searches for cable network channels.			
Analogue fine tune	You can use this setting for fine tuning analogue channels. This feature is not available if no analogue channels are stored.			
Satellite Settings	Displays satellite settings. <b>Satellite list:</b> Displays available satellites. You can <b>Add, Delete</b> satellites or <b>Edit</b> satellite settings on the list. <b>Antenna installation:</b> You can change satellite anntenna settings and/or start a satellite scan.			
Installation Settings (Optional)	Displays installation settings menu. <b>Standby Search:</b> Your TV will search for new or missing channels while in standby. Any new found broadcasts will be shown.			
Clear Service List	Use this setting to clear channels stored. This setting is visible only when the <b>Country</b> option is set to Denmark, Sweden, Norway or Finland.			
Select Active Network	This setting allows you to select only the broadcasts within the selected network to be listed in the channel list. This feature is available only for the country option of Norway.			
First time installation	Deletes all stored channels and settings, resets TV to factory settings.			

## **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 **Channel List** options. Press the **OK/TV** button to open the **Channel List**. You can filter the listed channels by pressing the **Blue** button or open the **Edit Channel List** menu by pressing the **Green** button in order to make advanced changes in the current list.

## Managing the Favourite Lists

You can create four different lists of your favourite channels. Enter the **Channel List** in the main menu or press the **Green** button while the **Channel List** is displayed on the screen in order to open the **Edit Channel List** menu. Select the desired channel on the list. You can make multiple choices by pressing the **Yellow** button. Then press the **OK** button to open the **Channel Edit Options** menu and select **Add/Remove Favourites** option. Press the **OK** button again. 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 **Filter** function in the **Edit Channel List** menu to filter the channels in the **Channel list** permanently according to your preferences. Using this **Filter** option, you can set one of your four favourite lists to be displayed everytime the **Channel list** is opened. The filtering function in the **Channel list** menu will only filter the currently displayed **Channel list** in order to find a channel and tune in to it. These changes will not remain the next time the **Channel list** is opened if you don't save them. To save the changes on the list press the **Red** button after filtering while the **Channel list** is displayed on the screen.

## Configuring Parental Settings

The **Parental Settings** menu options can be used to prohibit users from viewing of certain programmes, channels and using of menus. These settings are located in the **System>Settings>Parental** menu.

To display parental lock menu options, a PIN number should be entered. After coding the correct PIN number, **Parental Settings** menu will be displayed.

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

**Maturity Lock:** If this option is set, TV gets the maturity information from the broadcast and if this maturity level is disabled, disables access to the broadcast.

**Note:** If the country option in the **First Time Installation** is set as France, Italy or Austria, **Maturity Lock**'s value will be set to 18 as default.

Child Lock: If this option is set to ON, the TV can only be controlled by the remote control. In this case the control buttons on the TV will not work.

**Internet Lock:** If this option is set to **ON**, the open browser application in the portal will be disabled. Set to **OFF** to release the application 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 can be 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 (EPG)**

Some channels send information about their broadcast schedules. Press the **Epg** button to view the **Programme Guide** menu.

There are 3 different types of schedule layouts available, **Timeline Schedule**, **List Schedule** and **Now/Next Schedule**. To switch between them follow the instructions on the bottom of the screen.

## **Timeline Schedule**

**Zoom (Yellow button):** Press the **Yellow** button to see events in a wider time interval.

Filter (Blue button): Views filtering options.

Select Genre (Subtitles button): Displays Select Genre menu. Using this feature, you can search the programme guide database in accordance with the genre. Info available in the programme guide will be searched and results matching your criteria will be highlighted.

Options (OK button): Displays event options.

**Event Details (Info button):** Displays detailed information about selected events.

**Next/Prev Day (Programme +/- buttons):** Displays the events of previous or next day.

**Search (Text button):** Displays **Guide Search** menu. **Now (Swap button):** Displays current event of the highlighted channel.

**Rec./Stop (Record button):** The TV will start to record the selected event. You can press again to stop the recording.

**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.

**Note:** Switching to a different broadcast or source is not available during a recording.

## List Schedule(\*)

(\*) In this layout option, only the events of the highlighted channel will be listed.

**Prev. Time Slice (Red button):** Displays the events of previous time slice.

**Next/Prev Day (Programme +/- buttons):** Displays the events of previous or next day.

**Event Details (Info button):** Displays detailed information about selected events.

Filter (Text button): Views filtering options.

**Next Time Slice (Green button):** Displays the events of next time slice.

Options (OK button): Displays event options.

**Rec./Stop (Record button):** The TV will start to record the selected event. You can press again to stop the recording.

**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.

**Note:** Switching to a different broadcast or source is not available during a recording.

## **Now/Next Schedule**

Options (OK button): Displays event options.

**Event Details (Info button):** Displays detailed information about selected events.

Filter (Blue button): Views filtering options.

**Rec./Stop (Record button):** The TV will start to record the selected events. You can press again to stop the recording.

**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.

**Note:** Switching to a different broadcast or source is not available during a recording.

## **Event Options**

Use the directional buttons to highlight an event and press **OK** button to display **Event Options** menu. The following options are available.

**Select Channel:** Using this option, you can switch to the selected channel.

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 recording, highlight that event and press the **OK** button and select the option **Delete Rec. Timer**. The recording will be cancelled.

Set Timer on Event / Delete Timer on Event: After you have selected an event in the EPG menu, press the OK button. Select Set Timer on Event option and press the OK button. You can set a timer 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.

**Notes:** You cannot switch to any other channel or source 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.

## **Teletext Services**

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.

## 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 **System>Settings** and then **More**. Navigate to **Software upgrade** and press the **OK** button. In **Upgrade options** menu 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 confirm the question asking about rebooting the TV by pressing the **OK** to continue with the reboot operation.

## 3 AM search and upgrade mode

Your TV will search for new upgrades at 3:00 o'clock if **Automatic scanning** option in the **Upgrade options** menu 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.

## **Troubleshooting & Tips**

## Tv will not turn on

Make sure the power cord is plugged in securely to wall outlet. Check if batteries are exhausted. Press the Power button on the TV.

## Poor picture

- Check if you have selected the correct TV system.
- Low signal level can cause picture distortion. Please check antenna access
- Check if you have entered the correct channel frequency if you have done manual tuning.
- The picture quality may degrade when two devices are connected to the TV at the same time. In such a case, disconnect one of the devices.

## No picture

- This means your TV is not receiving any transmission. 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 is muted. Press the Mute button or increase the volume to check.
- Sound may be coming from only one speaker. Check the balance settings from Sound menu.

## Remote control - no operation

The batteries may be exhausted. Replace the batteries

## Input sources - can not be selected

- If you cannot select an input source, it is possible that no device is connected. If not;
- Check the AV cables and connections if you are trying to switch to the input source dedicated to the connected device

## Recording unavailable

To record a programme, you should first connect a USB disk to your TV while the TV is switched off. You should then switch on the TV to enable recording feature. If you cannot record, try switching off the TV and then re-inserting the USB device.

#### USB is too slow

If a "USB disk 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 disk does not meet the speed requirements. Try connecting another USB disk.

## PC Input Typical Display Modes

The following table is an illustration of some of the typical video display modes. Your TV may not support all resolutions.

Index	Resolution	Frequency
1	640x350	85Hz
2	640x400	70Hz
3	640x480	60Hz
4	640x480	66Hz
5	640x480	72Hz
6	640x480	75Hz
7	640x480	85Hz
8	800x600	56Hz
9	800x600	60Hz
10	800x600	70Hz
11	800x600	72Hz
12	800x600	75Hz
13	800x600	85Hz
14	832x624	75Hz
15	1024x768	60Hz
16	1024x768	66Hz
17	1024x768	70Hz
18	1024x768	72Hz
19	1024x768	75Hz
20	1024x768	85Hz
21	1152x864	60Hz
22	1152x864	70Hz
23	1152x864	75Hz
24	1152x864	85Hz
25	1152x870	75Hz
26	1280x768	60Hz
27	1360x768	60Hz
28	1280x768	75Hz
29	1280x768	85Hz
30	1280x960	60Hz
31	1280x960	75Hz
32	1280x960	85Hz
33	1280x1024	60Hz
34	1280x1024	75Hz
35	1280x1024	85Hz
36	1400x1050	60Hz
37	1400x1050	75Hz
38	1400x1050	85Hz
39	1440x900	60Hz
40	1440x900	75Hz
41	1600x1200	60Hz
42	1680x1050 60Hz	
43	1920x1080	60Hz
44	1920x1200	60Hz

AV and HDMI Signal Compatibility					
Source	Supported Signals				

Source	Supported S	Signals	Available
	PAL	0	
EXT	SECAM	0	
(SCART)	NTSC4.43		0
(OUAILI)	NTSC3.58		0
	RGB 50/60		0
	PAL		0
Side AV	SECAM		0
Side Av	NTSC4.43		0
	NTSC3.58		0
	480i, 480p	60Hz	0
YPbPr	576i, 576p	50Hz	0
TFUFI	720p	50Hz,60Hz	0
	1080i	50Hz,60Hz	0
	480i, 480p	60Hz	0
	576i, 576p	50Hz	0
	720p 50Hz,60Hz		0
НДМІ	1080i	50Hz,60Hz	0
	1080p	24Hz, 25Hz, 30Hz, 50Hz, 60Hz	0

## (X: Not Available, O: Available)

In some cases a signal on the TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

## Supported Video File Formats for USB Mode

Extension	Video Codec	SPEC (Resolution) & Bit Rate			
.dat, vob	MPEG1/2				
.mpg, .mpeg	MPEG1/2, MPEG4	1080P@30fps - 40 Mbps			
.ts, .trp, .tp	MPEG1/2, H.264, AVS, MVC	<b>H.264</b> : 1080Px2@30fps - 62.5 Mbps, 1080P@60fps - 62.5 Mbps <b>MVC</b> : 1080P@30fps - 62.5 Mbps <b>Other</b> : 1080P@30fps - 40Mbps			
.mp4, .mov, .3gpp, .3gp	MPEG1/2, MPEG4, H.263, H.264, Motion JPEG				
.avi	MPEG1/2, MPEG4, Sorenson H.263, H.263, H.264, WMV3, Motion JPEG	<b>H.264:</b> 1080Px2@30fps - 62.5 Mbps, 1080P@60fps - 62.5 Mbps <b>Motion JPE</b> 640x480@30fps - 10 Mbps <b>Other:</b> 1080P@30fps - 40 Mbps			
.mkv	MPEG1/2, MPEG4, H.263, H.264, WMV3, Motion JPEG				
.asf	Sorenson H.263, H.264, WMV3, Motion JPEG				
.flv	WMV3	1080P@30fps - 40 Mbps			
.swf	RV30/RV40	1080P@30fps - 40 Mbps			
.wmv	H.264, WMV3, VC1	<b>H.264:</b> 1080Px2@30fps - 62.5 Mbps, 1080P@60fps - 62.5 Mbps <b>Other:</b> 1080P@30fps - 40 Mbps			
.mp4, .mov, .3gpp, .3gp, MPEG transport stream, .ts,.trp, .tp, .mkv	HEVC/H.265	1080P@60fps - 50Mbps			

## Supported Picture File Formats for USB Mode

Image	Photo	Resolution (width x height)	Remark
JPEG	Base-line	15360x8640	
	Progressive	1024x768	
PNG	non-interlace	9600x6400	The limitation of max resolution depends on DRAM size
	interlace	1200x800	3126
ВМР		9600x6400	

Extension	Audio Codec	Bit Rate	Sample rate	
	MPEG1/2 Layer1	32Kbps ~ 448Kbps		
.mp3,	MPEG1/2 Layer2	8Kbps ~ 384Kbps	16KHz ~ 48KHz	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps		
	MPEG1/2 Layer1	32Kbps ~ 448Kbps		
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	16KHz ~ 48KHz	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps		
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz	
	AAC, HEAAC	1001 0001/1	8KHz ~ 48KHz	
	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz	
.avi	WMA 10 Pro M0	< 192kbps	48KHz	
	WMA 10 Pro M1	< 384kbps	48KHz	
	WMA 10 Pro M2	< 768kbps	96KHz	
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz	
	IMA-ADPCM, MS- ADPCM	384Kbps	8KHz ~ 48KHz	
	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz	
	MPEG1/2 Layer1	32Kbps ~ 448Kbps		
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	16KHz ~ 48KHz	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps		
.asf	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz	
	WMA 10 Pro M0	< 192kbps	48KHz	
	WMA 10 Pro M1	< 384kbps	48KHz	
	WMA 10 Pro M2	< 768kbps	96KHz	
	MPEG1/2 Layer1	32Kbps ~ 448Kbps		
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	16KHz ~ 48KHz	
	MPEG1/2 Layer3	8Kbps ~ 320Kbps		
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz	
	AAC, HEAAC		8KHz ~ 48KHz	
	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz	
	WMA 10 Pro M0	< 192kbps	48KHz	
.mkv, .mka	WMA 10 Pro M1	< 384kbps	48KHz	
	WMA 10 Pro M2	< 768kbps	96KHz	
	VORBIS		Up to 48KHz	
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz	
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz	
	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz	
	FLAC	< 1.6Mbps	8KHz ~ 96KHz	
	MPEG1/2 Layer1	32Kbps ~ 448Kbps		
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	16KHz ~ 48KHz	
.ts, .trp, .tp,	MPEG1/2 Layer3	8Kbps ~ 320Kbps	1	
.dat, .vob,	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz	
.mpg, .mpeg	EAC3	32Kbps ~ 6Mbps	32KHz, 44.1KHz, 48KHz	
	AAC, HEAAC		8KHz ~ 48KHz	
	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz	
	1 0	10.110po 1.01vibpo	J 12 1011112	

Extension	Audio Codec	Bit Rate	Sample rate
	MPEG1/2 Layer1	32Kbps ~ 448Kbps	i i
	MPEG1/2 Layer2	8Kbps ~ 384Kbps	16KHz ~ 48KHz
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	
.wav	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz
	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz
	MPEG1/2 Layer3	8Kbps ~ 320Kbps	16KHz ~ 48KHz
	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
	EAC3	32Kbps ~ 6Mbps	32KHz, 44.1KHz, 48KHz
.3gpp, .3gp,	AAC, HEAAC		8KHz ~ 48KHz
.mp4, .mov,	VORBIS		Up to 48KHz
.m4a	LPCM	64Kbps ~ 1.5Mbps	8KHz ~ 48KHz
	IMA-ADPCM, MS-ADPCM	384Kbps	8KHz ~ 48KHz
	G711 A/mu-law	64Kbps ~ 128Kbps	8KHz
.flv	MPEG1/2 Layer3	8Kbps ~ 320Kbps	16KHz ~ 48KHz
.117	AAC, HEAAC		8KHz ~ 48KHz
.ac3	AC3	32Kbps ~ 640Kbps	32KHz, 44.1KHz, 48KHz
.acs	AAC, HEAAC		8KHz ~ 48KHz
.swf	MPEG1/2 Layer3	8Kbps ~ 320Kbps	16KHz ~ 48KHz
.ec3	EAC3	32Kbps ~ 6Mbps	32KHz, 44.1KHz, 48KHz
	AAC, HEAAC		8KHz ~ 48KHz
.rm, .rmvb, .ra	LBR (cook)	6Kbps ~ 128Kbps	8KHz, 11.025KHz, 22.05KHz, 44.1KHz
	WMA	128bps ~ 320Kbps	8KHz ~ 48KHz
	WMA 10 Pro M0	< 192kbps	48KHz
.wma, .wmv	WMA 10 Pro M1	< 384kbps	48KHz
	WMA 10 Pro M2	< 768kbps	96KHz
.webm	VORBIS		Up to 48KHz

## Supported Subtitle File Formats for USB Mode

Internal Subtitles			
Extension	Container	Subtitle Code	
dat, mpg, mpeg, vob	MPG, MPEG	DVD Subtitle	
ts, trp, tp	TS	DVB Subtitle	
mp4	MP4	DVD Subtitle UTF-8 Plain Text	
mkv	MKV	ASS SSA UTF-8 Plain Text VobSub DVD Subtitle	

External Subtitles				
Extension	Subtitle Parser	Remark		
.srt	Subrip			
.ssa/ .ass	SubStation Alpha			
.smi	SAMI			
.sub	SubViewer MicroDVD DVDSusbtitleSystem SubIdx (VobSub)	SubViewer 1.0 & 2.0 Only		
.txt	TMPlayer			

## Supported DVI Resolutions

When connecting devices to your TV's connectors by using DVI converter cable(DVI to HDMI cable - not supplied), you can refer to the following resolution information.

	56Hz	60Hz	66Hz	70Hz	72Hz	75Hz
640x400				Ø		
640x480		Ø	Ø		Ø	Ø
800x600	Ø	Ø		Ø	Ø	Ø
832x624						Ø
1024x768		Ø	Ø	Ø	Ø	Ø
1152x864		Ø		Ø		V
1152x870						V
1280x768		Ø				V
1360x768		Ø				
1280x960		Ø				
1280x1024		Ø				$\overline{\square}$
1400x1050		Ø				Ø
1440x900		Ø				Ø
1600x1200		Ø				
1680x1050		Ø				
1920x1080		Ø				

# 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.

# To Connect to a wireless LAN, you should perform the following steps:

 To configure your wireless settings please refer to the Network/Internet Settings section in the System>Settings Menu.



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 WiFi 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.
- 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.

## **Configuring Wireless Device Settings**

Open the **Network/Internet Settings** menu and select **Network Type** as **Wireless Device** to start connection process.

The TV will scan the wireless networks automatically. A list of available networks will be displayed. Please select your desired network from the list.

**Note:** If the modem supports N mode, you should set N mode settings.

If the selected network is protected with a password, please 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**.

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. 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 WiFi

- If your mobile device has WiFi 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 to your router following the steps stated above.
- Afterwards, engage your mobile device with 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 from your mobile device via the Media Browser of your TV.
- Enter the Media Browser menu and the playback device selection OSD 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.

## Wireless Display

Wireless Display is a standard for streaming video and sound content by Wi-Fi Alliance. 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 WiFi feature.

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, please 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. Scanning and connecting processes differ according to the programme you use. Android based mobile devices should have the software version V4.2.2 and above.

## **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/Internet Settings menu screen.

If the wireless network does not function properly, 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.

# Distruption 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 Wi-Fi compatible devices. Try changing the active channel on the WI AN router

# 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. Please prepare your PC with a proper server programme.

#### 2. Connect to a Wireless Network

See the **To Connect to a Wireless Network** chapter for detailed configuration information.

## 3. Play Shared Files via Media Browser

Select **Media Browser** by using the **directional** buttons from the main menu and press **OK**. The media browser will then be displayed.

## **Audio Video Sharing**

Select the desired media type on the main media browser menu and press **OK**. If sharing configurations are set properly, **Device Selection** screen will be displayed after selecting the desired media type. If available networks are found, they will be listed on this screen. Select media server or network that you want to connect to using the Up or Down buttons and press

**OK**. If you want to refresh the device list, press the **Green** button. You can press **Menu** to exit.

If you select the media type as **Videos** and choose a device from the selection menu. Then select the folder with video files in it on the next screen and all the available video files will be listed.

To play other media types from this screen, you can go back to main **Media Browser** screen and select the media type as desired and then perform the network selection again. Or press the **Blue** button to switch to next media type quickly without changing the network. Refer to the **Media Browser** menu section for further information on file playback.

If a problem occurs with the network, please 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.

**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).

## Internet Portal

**HINT:** A broadband internet connection is required for high quality viewing. You must set the country option accordingly in the **First Time Installation** for proper operation of the internet portal.

Portal feature adds your TV a feature that allows you to connect a server on the Internet and view the content provided by this server over your Internet connection. Portal feature allows you to view the music, video, clip or web content with defined short-cuts. Whether you can view this content without interruption depends on the connection speed provided by your internet service provider.

Press the **Internet** button on your remote control to open internet portal page. You will see icons of the available applications and services on the portal screen. Use the directional buttons on your remote to select the desired one. You may view the desired content by pressing **OK** after selecting. Press **Back/Return** button to return back to the previous screen.

Moreover, you can access some features using the short-cut feature defined for the coloured or numeric buttons of your remote.

Press the **Exit** button to guit the Internet portal mode.

## PIP Window (depending on portal service)

Current source content will be displayed in the PIP window, if you switch to portal mode while on any active source.

If you switch to portal mode while watching TV channels, current programme will be displayed in the PIP window.

#### Notes:

Possible application dependent problems may be caused by the content service provider.

Portal service content and the interface may be changed at any time without prior notice.

Third party internet services may change, be discontinued or restricted at any time.

## **Internet Browser**

To use the internet browser, enter the portal first. Then launch the **Internet** application on the portal.

(\*) The appearance of the internet browser logo may change

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 adress/search bar, the **Speed Dial** and the **Opera** 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 - the 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 Opera- 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 **Opera** menu options to manage the browser. Highlight the **Opera-**  $\boxed{0}$  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.

## **DVD Mode**

## Safety Information

## CAUTION

DVD Player is a class 1 laser product. However this product uses a visible laser beam which could cause hazardous radiation exposure. Be sure to operate the player correctly as instructed.

## CLASS 1 LASER PRODUCT

## **RISK OF ELECTRIC SHOCK**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

## Notes on Discs

## On handling discs

- To keep the disc clean, handle the disc by its edge.
   Do not touch the surface.
- · Do not stick paper or tape on the disc.
- If the disc is contaminated with any substance like glue remove before using it.





- Do not expose the disc to direct sunlight or heat sources such as hot air ducts, or leave it in a car parked in direct sunlight as the temperature can rise quickly and damage the disc.
- · After playing, store the disc in its case.

## On cleaning

Before playing, clean the disc with a cleaning cloth.
 Wipe the disc from the center out.





 Do not use solvents such as benzine, thinner, commercially available cleaners or anti-static spray intended for vinyl LPs.

## **Licence Notification**

 This product incorporates copyright protection technology that is protected by U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Rovi Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Rovi Corporation. Reverse engineering and disassembly are prohibited.

## How to Watch a DVD

When placing a disc into the loader, labeled side of the disc should be on the front

When TV set is turned on, first switch to DVD source by using the **Source** button on the remote control. Press play on the remote control, or directly press play button at the front panel. If there is no disc inside the loader. place a DVD first and press play.

Note: If you switch to another source by pressing Source, Swap or Programme +/- buttons on the remote control, DVD playback will be paused automatically. You should press Play button and resume the playback manually when you switch to DVD mode.

## **DVD Control Panel Buttons**

## / [[ (Play / Pause)

Plays/pauses the disc. When DVD menu (root menu) is active, this button functions as "button select" (selects the highlighted item in menu) if this is not prohibited by the disc.

## 

Stop playing disc / Eject or Load the disc.

## Note:

- · You cannot eject the disc via the remote control.
- While playing a file, you should press **STOP** button three times to eject.

## **General Playback**

## **Basic Play**

- 1. Press on the power button
- 2. Please insert a disc into the loader.

The disc will be automatically loaded and play will commences if the disc does not have any menus recorded on it.

A menu may appear on the TV screen after a few moments or the film may start immediately. This behaviour depends on the disc content and may change.

**Note:** Step 3 and 4 is available only when a menu is recorded on the disc.

3. Press Down / Up / Left / Right or the numeric button (s) to select the preferred title.

## 4. Press OK.

To confirm the selected items. The played item may be a motion picture, a still picture or another submenu depending on the disc.

## For your reference:

If an action corresponding to a button is prohibited the " symbol appears.

## Notes on Playback:

- No sound will be heard during Rapid advance or Rapid reverse.
- 2. No sound will be heard during Slow motion play.
- Reverse slow motion play may not be available depending on the dvd content.
- In some cases, the subtitle language is not changed immediately to the selected one.
- When the preferred language is not selected even after pressing the button several times, it means that the language is not available on the disc.
- When the player is restarted or the disc is changed, the subtitle selection is automatically changed back to the initial settings.
- If a language is selected, not supported by the disc, the subtitle language will automatically be set to the disc's priority language.
- 8. Usually a circulation will happen while switching to another language, that is you can cancel the subtitle by pressing this button a number of times until "Subtitles Off" appears on the screen.
- When the power is turned on or the disc is removed, the language heard is the one selected at the initial settings. If this language is not recorded on the disc, only the available language on the disc will be heard.
- Some DVDs may not contain root and/or title menus.
- 11. Reverse stepping is not available.
- 12. For your convenience:

If you attempt to enter a number greater than the total time of the current title, the time search box disappears and " Input Invalid" message appears on up-left corner of screen.

13. Slide Show is disabled when the ZOOM mode is on.

## **DVD** Troubleshooting

## Poor picture quality (DVD)

- Make sure the DVD disc surface is not damaged. (Scratch, fingerprint etc.)
- · Clean the DVD disc and try again.

See instructions described in "Notes on Discs" to clean your disc properly.

- Ensure that the DVD disc is in the tray with the label facing upward.
- A damp DVD disc or condensation may effect the equipment. Wait for 1 to 2 hours in Stand-by to dry the equipment.

## Disc does not play

- · No disc in the machine. Place a disc into the loader.
- · Disc incorrectly loaded.

Ensure that the DVD disc is in the tray with the label facing upward.

 Wrong type of disc. The machine cannot play CD-ROMS etc. The region code of the DVD must match the player.

## Wrong OSD language

- · Select the language in the set-up menu.
- The language for the sound or subtitles on a DVD cannot be changed.
- Multilingual sound and/or subtitles not recorded on the DVD.
- Try to change the sound or subtitles using DVD's title menu. Some DVD's do not allow the user to change these settings without using the disc's menu
- These functions are not available on the DVD.

## No picture

 Make sure you have pressed the correct buttons on the remote control. Try once more.

#### No sound

- · Check if volume is set to an audible level.
- · Make sure the sound isn't turned off by mistake.

#### Distorted sound

 Check that the appropriate listening mode setting is correct.

#### If nothing works

If you have tried the above solutions and none seem to work, try switching your TV-DVD off and on again. If this does not work, contact your supplier or TV-DVD repair technician. Never attempt to repair a defective TV-DVD yourself.

## Disc Types Compatible with This Unit

Disc Types (Logos)	Recording Types	Disc Size	Max. Playing Time	Characteristics
DVD VIDEO	Audio + Video	12 cm	Single- sided; 240 min. Double- sided; 480 min.	DVD contains excellent sound and video due to Dolby Digital and MPEG-2 System.     Various screen and audio functions can be easily selected through the on screen menu.
AUDIO-CD COMPACT DIGITAL AUDIO	Audio	12 cm	74 min.	An LP is recorded as an analog signal with more distortion. CD is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
MP3-CD  MP3  READABLE	Audio (xxxx.mp3)	12 cm	It depends on MP3 quality.	MP3 is recorded as a Digital Signal with better audio quality, less distortion and less deterioration of audio quality over time.
PICTURE-CD JPEG READABLE	Video (still picture)	12 cm	It depends on JPEG quality.	JPEG is recorded as a Digital Signal with better picture quality over time.

For proper operation, only 12 cm discs must be used.

## **Specifications**

Types of Discs Supported	<b>DVD:</b> SS/SL 4.7" (DVD-5)	CD-DA			
	SS/DL 4.7" (DVD-9)	CD-R			
	DS/SL 4.7" (DVD-10)	CD-RW			
	DS/DL 4.7" (DVD-18)	MP-3/JPEG			
Video Type	MPEG-2 Video Standard Decoding (MPEG-1 supported)				
	Full-Screen Video Display of 720 x 576 (PAL) & 720 x 480 (NTSC) pixels				
	50 and 60 Hz frame refresh rates (PAL & NTSC)				
	Digital bit-stream processing rate up to 108Mbits/sec				
	Line resolution more than 500 lines				
Audio Type	MPEG Multichannel Decoding				
	LPCM				
Audio Output	Analog Outputs:				
	24 bit /48, 44.1kHz down-sampling DAC				



- 1. Play
- 2. No function
- 3. Rapid reverse
- 4. Language selection
- **5.** Zoom
- 6. Repeat
- 7. Numeric buttons
- 8. TV Menu
- 9. Back
- 10. Display / DVD Menu
- 11. Search mode
- **12**. Info
- 13. OK / Select
- 14. Navigation buttons
- **15.** Root
- **16**. Title
- 17. Subtitle
- 18. Rapid advance
- **19.** Stop
- 20. Pause
- 21. Angle
- 22. Standby

**Note:** Buttons not indicated with a number are not functional in DVD mode.

## General DVD Operation (depending on model)

You can operate DVD, movie CD, music or picture CD's content by using the proper buttons on your remote control. Below are main functions of commonly used remote control buttons.

Buttons	DVD Playback	Movie Playback	Picture Playback	Music Playback	
<b>&gt;</b>	Play	Play	Play	Play	
II	Pause	Pause	Pause	Pause	
	Stop	Stop	Stop	Stop	
<b>◄</b> /▶	Skip backward/ forward	Skip backward/ forward	Rotate	Skip backward/forward	
▼/▲	Highlights a menu item / Shifts the zoomed picture up or down (if available).				
<b>44</b> / <b>&gt;&gt;</b>	Rapid advance / Rapid reverse				
MEDIA BROWSER		rom different angles ailable)	Changes slide effect (depends on the content)	Х	
MY BUTTON 1	Displays time / Views main setup menu				
INFO	Time counter mode selection (during playback). Press repeatedly to switch between modes.				
LANGUAGE	Auto la	inguage	X	X	
MENU	Displays TV menu.				
ок	Enter / View / Play				
GREEN BUTTON	Displays repeat options.				
RETURN/BACK	Returns back to the previous menu (if available).				
YELLOW BUTTON	Goes back to the root folder (if available).				
MY BUTTON 2 (*)	Direct selection	of scenes or time.	Selects the desired file.	Selects the desired file.	
SUBTITLES	Subtitle on-off. Press repeatedly to switch between subtitle options.		X	×	
BLUE BUTTON	Displays disc menu (if available).	Displays disc menu (if available).	Х	х	
RED BUTTON	Zooms picture. Press repeatedly to switch between zoom options.				

Other Functions – Button Combinations (During playback)		
II+ <b>&gt;&gt;&gt;</b>	Slow forward	
( <b>11</b> + <b>&gt;&gt;</b> ) + <b>&lt;&lt;</b> >>	Sets slow forward speed	
<b>&gt;&gt; +&gt;&gt;</b>	Sets rapid advance speed	
<b>44</b> + <b>44</b>	Sets rapid reverse speed	
+	Confirms stop command	

(\*) You can switch to title by pressing numeric keys directly. You need to press 0 and then digit key to switch one digit titles (example: to select 5, press 0 and 5).

## MOBIL TV INSTRUCTIONS

## Switching the TV On Using 12 Volt

- 1. Connect the cigarette lighter plug cable into the cigarette lighter socket of your car.
- Plug the other side of 12 volt cable into DC 12 socket on the back side of the TV. Then the standby LED will light up.
- 3. Press the **Standby** button, **Programme +/-** buttons or a numeric button on the remote control or press the middle of the control switch on the TV in. The TV will then switch on.
- 4. Adjust the antenna position for better reception or reinstall TV channels if necessary.

## Switching the TV Off

- 1. Press the **Standby** button on the remote control or press the middle of the control switch on the TV in and hold it down for a few seconds, so the TV will switch into standby mode.
- 2. Unplug cable connectors and power plugs.

ATTENTION: 12 V Input: V

