

# Service Manual

## LED Television

### Chassis : LED

Model : DEX-42T1S



#### ■ SPECIFICATIONS

Version	TF	TK	TU	TA
TV standard	PAL B/G	PAL-SECAM B/G – D/K	PAL I/I	PAL B/G – SECAM L/L
Sound system	mono			
Power consumption	≤140W			
Sound Output Power	100V-240VAC 60/50Hz			
Speaker	8W×2			
Teletext system	10 pages memory FASTEXT (FLOF or TOP) – version with teletext only			
Aerial input	75 ohm unbalanced			
Channel coverage	Off-air channels, S-cable channels and hyperband			
Tuning system	frequency synthesiser tuning system			
Visual screen size	Aspect ratio 930.24mm×523.26mm			
	Viewing angle	Horizontal 178°,Vertical 178		
	Max.resolution	1920×1080		
Channel indication	On Screen Display			
Program Selection	100 programmes			
Aux. terminal	Display color 1.06Billion ;Max. brightness 450cd/m2; Max. contrast ratio 1400:1 ;Response time 4ms ; Input signal HDMI / VGA / YPbPr / S-VIDEO_IN / AV_IN / AV_OUT / RF / EARPHONE / USB ; Image processing 3D+3D ; USB support:Audio/ Image			
Remote Control Unit	≥8m ±30°			

**DAEWOO ELECTRONICS CO., LTD.**

JUN. 2013

DAEWOO

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## Features

1. High-quality LED backlight LCD screen, energy saving, environmental protection, ultra-thin, brilliant features.
2. Having inter high quality speakers, which will give you purely audiovisual enjoyment and save your table place.
3. Having many ideal connectors, you may directly connect your DVD, vidicon etc. its disport components of input connector let you enjoy beautiful image effect. The product can be used as a computer monitor with VGA and HDMI connectors. Also it can be used as a TV machine when you insert the antenna.
4. Much faster response time will completely eliminate shadow of picture. seeing film and playing game may be more fluent.
5. Enough colours.
6. Wider viewing angle, higher brightness, higher contrast, lower consumption.
7. Intelligent image mode and sound mode can offer you intelligent audiovisual effect.
8. Built-in the latest digital comb filter, which makes image more clear. The internal 3D De-Interlace technique can totally eliminate the screen dithering caused by interlace signals.
9. Own perfect timing functions, you can set time to turn off. It will be turned off in state of no signals, too.
10. Automatically operated convenient with telecontrol device.
11. Auto-setup function help you set the image to best performance in several seconds in VGA mode.
12. Auto color balance adjustment technology takes your machine to the best color setting for all different kinds of display adapters in VGA mode.
13. Automatic denoise technique can greatly eliminate background noise caused by menu interference and the noise caused by weak signals so as to make the picture on the screen clear.
14. Support USB interface.
15. Support for H.264 FULL HD receiver and supports PVR functionality.
16. Ultra-thin and super narrow design.

## Safety Warning and Notice

Thank you to choose the LCD TV with LED backlight made by our company, a valuable product with excellent quality and multiple functions. This machine will bring you more audiovisual enjoyment. Its design can insure user's safety. All machine are strictly tested before leaving factory. But incorrect use can lead to electric shock or fire. In order to ensure safety and extend its life, please read the manual and marking label carefully before using it and comply with the following safety instructions. Please keep the user manual for later use.

## Safety Warning and Notice



### Warning

May result in casualties



### Attention

May result in personal injury or property losses



Indicate the behaviors that must be prohibited



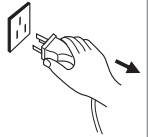
Indicate the operations that must be performed

### Under Following Conditions

- Power failure or unstable voltage.
- Abnormal sound or smell from the device.
- AC power cord is damaged.
- TV set is damaged due to falling off, knock or impact.
- Any liquid or foreign matters enter into the TV set.



Turn off the TV set immediately, unplug the power cord from the power outlet, and contact authorized maintenance personnel.



- If coal gas or other flammable gases leak, do not unplug the power cord of the TV set or other electric appliances; instead, close the valve of the gas immediately and open the doors and windows.



### Warning



- Only use 100-240VAC 60/50Hz power supply.
- This TV must be connected to a three pin socket outlet for safety.
- All cables can be connected or pull out only after power supply is turned off.
- Do not fix the TV set on instable position, or else it may cause falling off, damage, or even fire.
- Do not put the TV set in the environment:
  1. With direct sunshine, moisture, overheating, undercooling or heavy dust;
  2. With flammable or explosive substance;
  3. With flammable or corrosive gas;
  4. In bathroom, kitchen, etc.
- Do not use damaged or improper power socket, and ensure that the plug and socket are connected properly.
- Keep the power plug and socket free of dust and metal pieces.
- Do not damage the power cord:
  1. It is prohibited to refit the power cord;
  2. Do not put heavy object on the power cord;
  3. Keep the power cord away from heat source;
  4. Do not drag the power cord when unplugging.
- Do not connect too many appliances to one power strip, or else it may cause fire due to high power consumption.
- Do not let open flame (e.g. lit candle) approach the TV set, or else it may cause electric shock or fire.
- Do not put the container filled with water on the TV set, to avoid electric shock or fire caused by water drop of splashing.
- Do not penetrate any sharp object, metal or liquid into the signal connector or air vents, to avoid short circuit and product damage as well as electric shock.
- The slots on the case is designed to release heat so as to assure that all inside components will not reach an extra high temperature and can work normally for a long time. Please do not cover the holes while place it.

## Safety Warning and Notice



### Warning



Do not touch the plug with wet hands, or else it may cause electric shock.



Do not turn on the TV set in thunderstorm weather; instead, unplug the power plug and antenna connector to avoid lightning strike.



Do not disassemble the TV set by yourself, or else it may cause electric shock or fire. Contact qualified personnel for maintenance.



### Attention

- Do not let children climb onto the TV set.
- Keep the small accessories away from children's reach to avoid swallowing.
- If the TV set won't be used for a long time, please turn off the device and unplug the power cord.
- Before cleaning the TV set, unplug the power cord and wipe with soft cloth; do not use chemical reagents and avoid foreign substances entering into the device. Improper cleaning may damage the appearance or erase the printing information on the product.
- To adjust the position or angle of the TV set, please disconnect all wires and move slowly to avoid falling off.
- Do not rub with hard object, knock at, bend or squeeze the screen.
- Do not use machine immediately after transferring machine to the places with high temperature from low temperature, which will cause fogging inside machine and failures.
- If the screen is broken and the liquid splashes on skin, please wash with clean water immediately for 15 minutes, and go to see your doctor.
- To carry the TV set with hands, please grasp the corners and hold the bottom; do not apply force on the panel.
- Displaying the same image for a long time or active image with fixed words, icons will leave "image persistence" on screen which will not disappear after powering off for a long time. This undesirable phenomenon is not covered by warranty.
- Healthy TV watching:
  - 1. Watch in appropriate light; poor light or long time watching may hurt your eyes.
  - 2. If a headset is used, adjust the volume appropriate to avoid hurting your hearing.
- Unplug the power cord of the device to cut off the power supply.
- If a power plug or appliance coupler is used as disconnecting device, it should ensure easy operation.
- Power plug shall be connected reliably. Loose power plugs may cause sparkle and fire.
- All the technical specifications in the user manual and on the packaging are subject to changes without prior notice. If there is slight deviation between the user manual and actual operation, the latter shall prevail.

## Mounting and Connecting

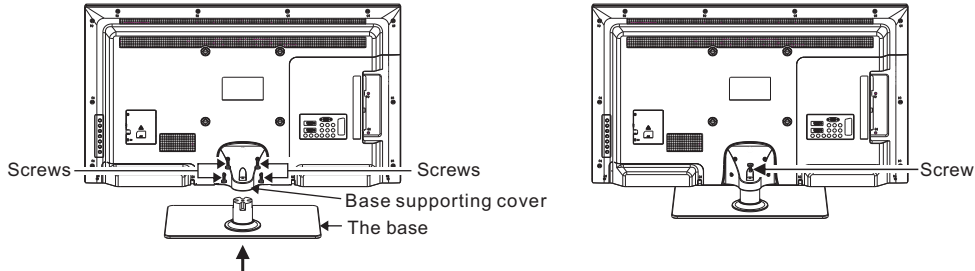
### Packing list

1. The TV set;    2. User Manual;    3. Remote control;    4. Power cord: 1 (or attached to TV set)

## Mounting and Connecting

### Mounting the TV set

Fasten the base supporting cover to the back cover of machine (It needn't to operate this step when base support cover had been installed.), and then Insert base assembly to supporting shield hole of complete machine back cover as illustrated direction of arrow, to make supporting shield and supporting hole center in the same line, finally fasten the screw. **Note:** The base and machine appearance may not be the same as the picture, specific in accordance with work order.



- The TV set should be mounted near the AC power socket for easy plugging and unplugging.
- For your safety, please select appropriate wall mount bracket or base.
- To avoid hurt, it is required to place the TV set on stable plane, or fix on firm wall.
- Ask qualified personnel to mount the TV set on the wall. Improper mounting may result in instable TV set.

#### Mount on the wall

Obstruct the air circulation

#### Mount on the base

Obstruct the air circulation

#### Ventilation

- Please keep this space at least around the TV, as shown in the figure.
- Do not cover the air vents or insert any object into the enclosure.
- Do not put the device in limited space, e.g. bookcase or embedded closet, unless the TV set is properly ventilated.

### Tips on Installation

- Do not place the TV set at any place susceptible to mechanical vibration.
- Do not place the TV set at any place that insects may enter.
- Do not mount the TV set against air conditioner, or else the internal panel of the display may condense moisture and cause failure.
- Do not place the TV set at any place with strong magnetic field, or else it may be interfered with and damaged by electromagnetic wave.

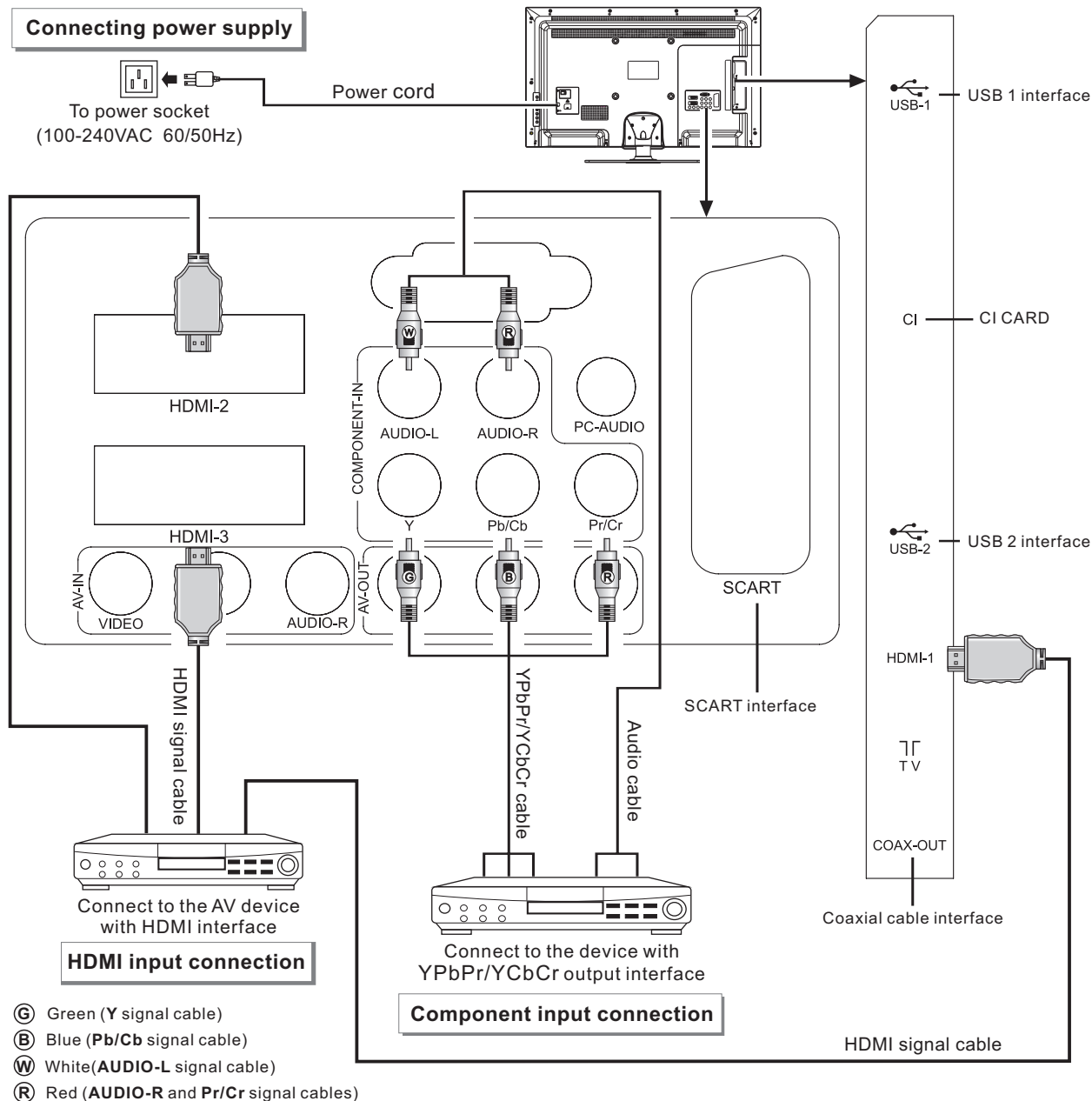
# Mounting and Connecting

## Connecting peripheral equipment

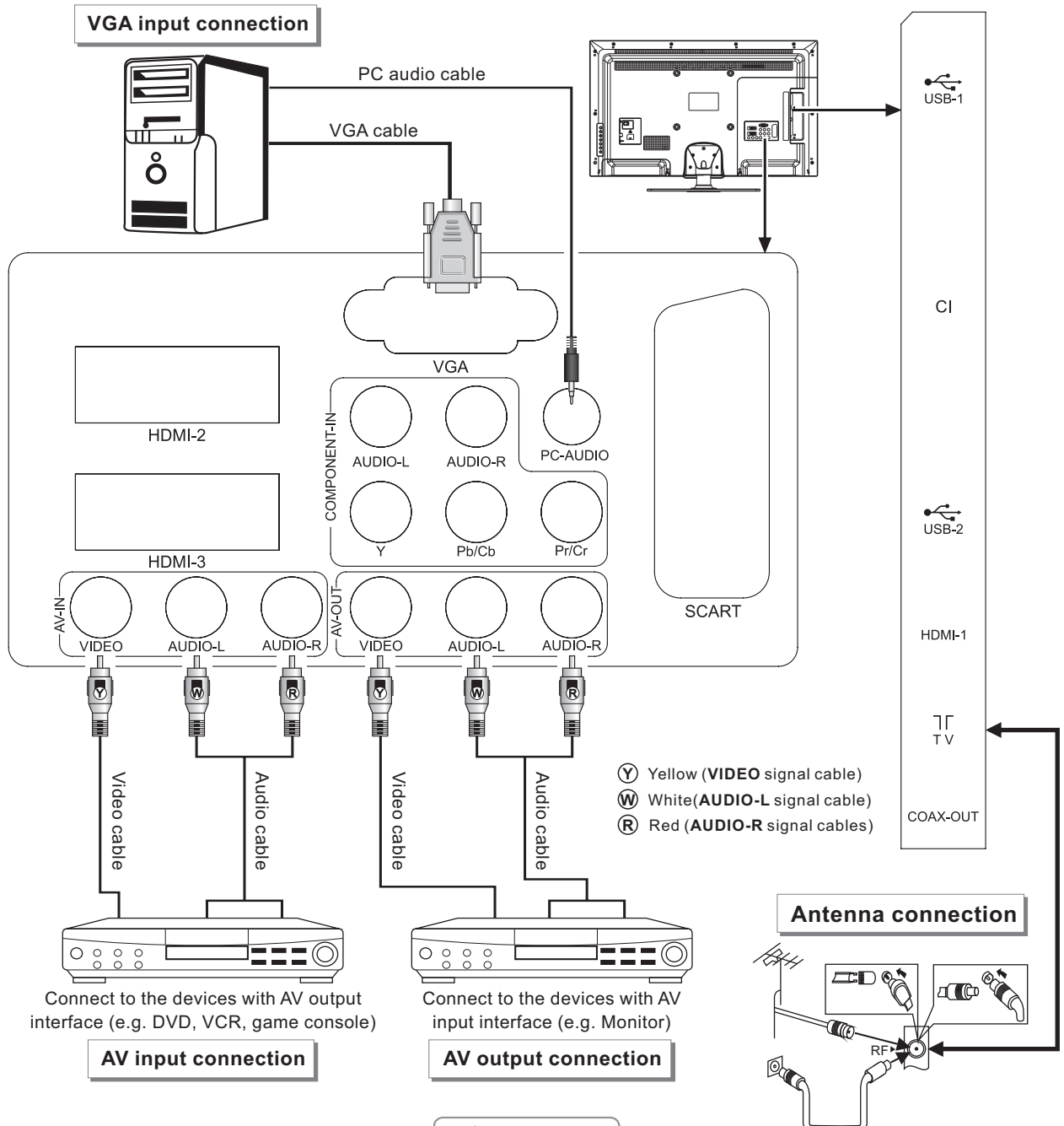
You can connect various devices to the TV set and view high quality images. If the video device has HDMI, YPbPr/YCbCr, AV, PC and other video output/input ports. You can select one of them and connect to corresponding input or output ports of the TV set. After connected, press "SOURCE" key, then menu of signal source will be displayed on the screen. Press the " $\blacktriangle/\blacktriangledown$ " key to select the input signal, and press "OK" key to confirm. The connecting mode is shown in the figure.

**Note:** 1. USB and HDMI interfaces are alterable; please refer to the actual configuration.

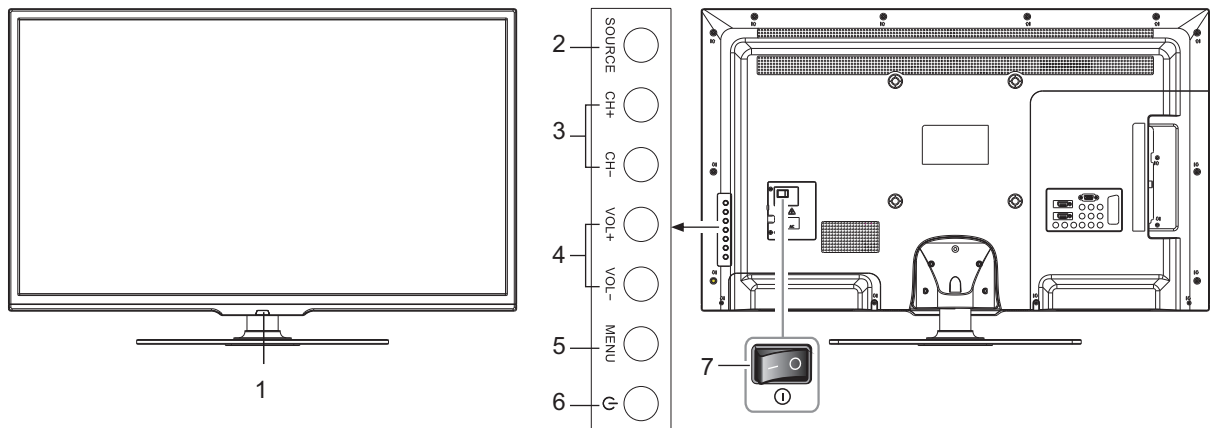
2. The peripheral equipment and cables described in this manual should be purchased separately.



# Mounting and Connecting



## Panel Control Keys



- 1) Power LED indicator and remote receiving window.
- 2) **SOURCE**: Press this key to enter the menu of signal source and choose signal source.
- 3) **CH+/CH-**: Press these two keys to select the channel. In OSD menu, press the two keys to adjust the items, which have the same functions as **▲/▼** key on the remote control.
- 4) **VOL+/VOL-**: Press these two keys to add or reduce volume. In OSD menu, press the two keys to adjust the analog value of selected item, which have the same functions as **◀/▶** key on the remote control.
- 5) **MENU**: Press this key to enter main menu.
- 6) **⏻** Power on/Standby.
- 7) **ⓘ** Power switch (press "I" end to turn power on, and press "O" end to turn power off)

**Note:** Different models may have different appearances; please refer to the actual device.

## Remote Control

### Installing battery

Remove the battery cover, and insert two AAA (1.5V) batteries; make sure that the polarity of the battery is consistent with the marks "+/-" in the battery slot.

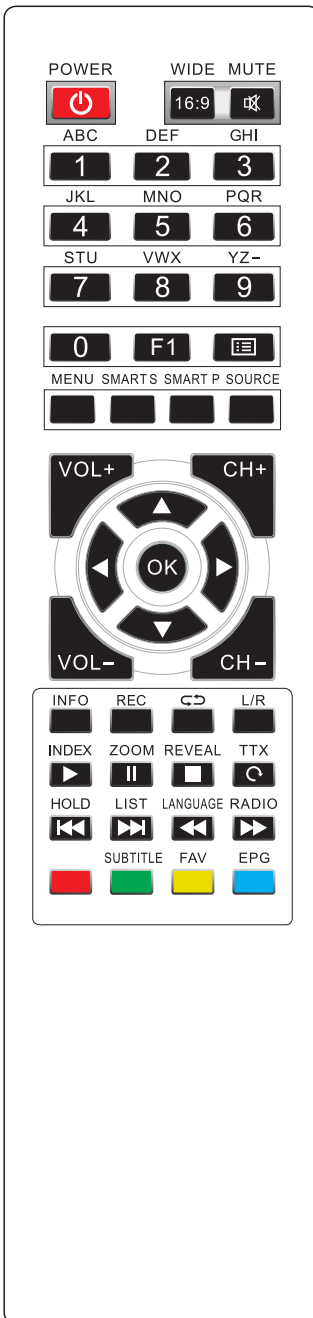
### Precautions of remote control usage

- Point the remote control to the receiver window. The objects between remote control and the receiver window may disturb the normal operation.
- Keep the remote control away from strong vibration. In addition, do not set or put the remote control in direct sunshine, which may result in deformation of the remote control.
- The remote control may be invalid if the receiver window is in direct sunshine or strong light; in this case, please adjust the angle of the light or the device, or approach the remote control to the receiver window.
- The effective range of the remote control may be affected if the battery voltage is low; in this case, please replace with a new battery; if the remote control won't be used or battery voltage is too low, please take out the battery to avoid corrosion due to battery liquid leakage.
- Do not mix different types of batteries, or used and new batteries.
- Do not throw the batteries into fire, charge or break up, or charge, short circuit, disassemble, heat or burn the used batteries. Please follow the environmental protection regulations to disposal of the batteries.
- Do not expose battery to sun light, fire or any other similar overheated environment.



# Remote Control

## Remote Control Key Instruction



POWER (⏻)	Switch the receiver in and out of standby mode.
WIDE (16:9)	Switch picture ratio: Auto, 4:3, 16:9, Zoom1, Zoom2. Panorama,
MUTE (🔇)	Switch off sound when viewing a program.
Numerical	Input number.
CURSOR KEY (▲, ▼, ◀, ▶)	Press ▲/▼/◀/▶ key to select menu item or press ◀/▶ key to change analog value.
F1	Picture freeze on or off.
MENU	Press this button to display menu.
SMART S	Smart sound mode selection: Standard, Music, Movie, Sports, User.
SMART P	Smart image mode selection: Standard, Soft, User, Dynamic.
SOURCE	Press this key to display signal source selection menu.
CH+/CH-	Add or reduce channel Number.
VOL+/VOL-	Press to adjust the volume.
OK	To confirm current setting.
INFO	Display the information of current program.
REC	Record key.
Return (↶)	Press this button to return to last watching channel.
L/R (optional)	Select NICAM mode in ATV or select audio Languages in DTV.
INDEX (▶)	For teletext operation or USB operation.
ZOOM (⏏)	
REVEAL (■)	
TTX (⌂)	
HOLD (⏮)	
LIST (⏭)	For teletext operation or USB operation.
LANGUAGE (⏪)	
RADIO (⏩)	Switch to radio channel or for USB operation.
red key	Muti-function red key.
SUBTITLE (green key)	Muti-function green key or display subtitle message, when current channel has subtitle option.
FAV (yellow key)	Muti-function yellow key or Favourite key, to set or display your favorite programs.
EPG (blue key)	Muti-function blue key, or to show the Electronic Program Guide of current channel during no-menu state.

**Remark:** The picture may be different from the remote control; please refer to the actual product.

### Remote control user manual about teletext

**TeleText:** Press 'Teletext' key, It loops in 3 modes: Text Mode → Mix Display → TeleText Off.

In text mode or mix Display, press number 0~9 to select text page, press "▲/▼" key to page up or page down text page.

**Reveal:** Press this key to display concealed information, such as solutions of riddles or puzzles. Press this key again to remove the information from the display.

## Remote Control

**Hold:** Press this key to Toggle hold on or off for current display pages. If the page is not held, it will become held, thus preventing it from being updated. If the page is currently held, the hold will be removed thus allowing the page to update. When the page is held, this is indicated by a Hold prompt.

**Index:** Press this key to return back to index page.

**ZOOM:** Press "ZOOM" key, It allows you to zoom in character.

**List:** Press this button you force the Teletext to List Mode. List the pages that you have previously stored in the memory. Press List button again to exit from List Mode to teletext.

**Red, Green, Yellow, Blue:** Request the associated page in the display block according to the acquisition mode.

## Basic Operations

Before power-on platform, please make sure that the power supply is stable; the antenna cable is well connected.

### Power On



Fig.1



Fig.2

Plug power cord into the electrical socket, press "⏻" button on the panel, then press "⏻" key on the remote control or on the panel to turn on the TV. The screen display "please Select an OSD Language" menu when you use the TV for the first time (Fig.1). Press "▲/▼/◀/▶" key on the remote control to select language which you wish, then press "OK" key on the remote control to confirm. The screen display "Country" menu at the same time (Fig.2). You can select country where you are by pressing "▲/▼/◀/▶" key on the remote control, the machine start auto search channel after pressing "OK" key (Fig.3).



Fig.3

### Standby

Press "⏻" key on the remote control, TV will be in standby.

★ Special Attention:

1. TV set will automatically turn to standby if there is no signal input for 5 minutes when the TV turns on.
2. TV set will automatically turn to standby when the preset time for turning off is reached.

### Signal source selection

Press "SOURCE" key either on the remote control or on the panel, and the menu of "Input Source" will be displayed on the screen (Fig.4). Press "▲/▼" key on remote control or "CH+/CH-" key on the panel to select the signal source. Press



Fig.4

## Basic Operations

"OK" key on the remote control and the TV will switch the current signal source to the source which you select.

### Menu operation description

Press "MENU" key on the remote control or on the panel. The screen will display the main menu (Fig.5).

1. Press "◀/▶" key on the remote control or "VOL+/"VOL-" key on the panel to select the adjustment sort menu, which includes 6 sorts, CHANNEL, PICTURE, SOUND, OPTION, TIME, LOCK.
2. Press "▲/▼" key on the remote control or "CH+/"CH-" on the panel to select what is needed to adjust in sort menu.
3. Press "OK" key on the remote control to set or enter into next menu.
4. Press "MENU" key to exit the main menu when the TV displays the Main Menu; Press "MENU" key to return to previous menu when the TV displays the sub-menu; Press "SOURCE" key to display the signal source menu.
5. During the operation, the selections which can not be adjusted at current mode will be hidden automatically and the color of the selections will be changed into gray.
6. Menu Operation Instruction in this manual is explained according to TV mode. The operations in other modes are similar to the one in TV mode. Users can take it as reference.

**Note:** "▲, ▼, ▶, ▶" key in this Manual stand for the direction cursor keys on the remote control unless specifically defined. The operating instructions in the text below are all based on keys on the remote control. Please understand the keys on the panel by yourself.

### CHANNEL

Press "MENU" key, CHANNEL menu shows on the screen. Press "▲/▼" key to select the item you'd like to adjust or set.

#### Auto Tuning

Press "MENU" key, CHANNEL menu shows on the screen. Press "▲/▼" key to select Auto Tuning. Press "OK" key, then press "◀/▶" key to select Tune Type: DTV+ATV, DTV, ATV (Fig.6). Press "▼" key to enter into "Country" menu, then you can select country where you are by pressing "▲/▼/◀/▶". Press "OK" key to confirm, the machine start auto Tuning. During auto tuning, the screen display "Do you want to skip ATV Tuning" by pressing "MENU" key. Press "◀" key to confirm, or press "▶" key to cancel. When you press "◀" key to confirm, the machine start auto tuning DTV channel, During auto tuning DTV channel, the screen display "Do you want to skip DTV Tuning" by pressing "MENU" key. Press "◀" key to confirm, or press "▶" key to cancel.

#### DTV Manual Tuning

Press "MENU" key, CHANNEL menu shows on the screen. Press "▲/▼" key to select DTV Manual Tuning. Press "OK" key to enter into DTV Manual Tuning menu (Fig.7). Press "◀/▶" key to select channel, then press "OK"

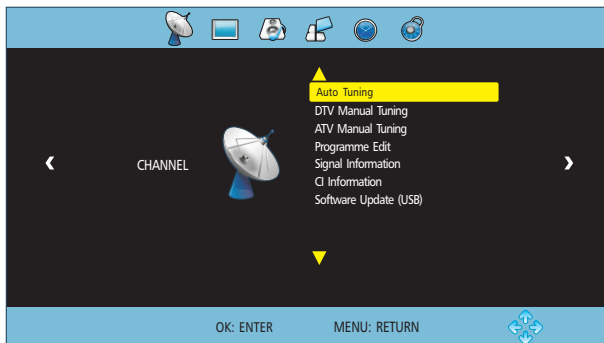


Fig.5

Tune Type			DTV + ATV
Rumania	Slovenia	Switzerland	
Russian	Spain	UK	
Serbia	Sweden	NewZealand	
			MENU: RETURN

Fig.6

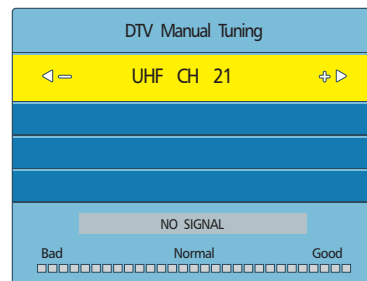


Fig.7

## Basic Operations

key to conduct search. After searching, the DTV Manual Tuning menu automatically exits. During the search you may press "**MENU**" key to interrupt the search and return to the last menu.

### ATV Manual Tuning

Press "**MENU**" key, CHANNEL menu shows on the screen. Press "**▲/▼**" key to select ATV Manual Tuning. Press "**OK**" key to enter into ATV Manual Tuning menu (Fig.8). Press "**▲/▼**" key to select Search, and then press "**◀/▶**" key to conduct manual search. After searching, you may save the channel searched to other positions. At this time, press "**▲/▼**" key to select Storage To, and then press the "**◀/▶**" key to choose channel Number. After selecting Fine-Tune press "**◀/▶**" key to tune from low frequency or high frequency. During manual searching, you also may press "**MENU**" key to interrupt the search and return to the last menu.

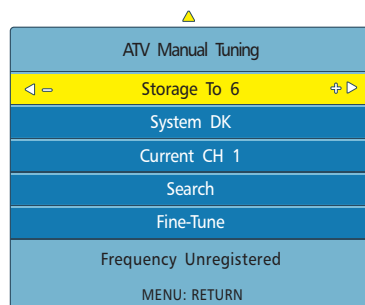


Fig.8

### Programme Edit

Press "**MENU**" key, CHANNEL menu shows on the screen. Press "**▲/▼**" key to select Programme Edit. Press "**OK**" key to enter into Programme Edit menu (Fig.9), then press "**▲/▼**" key to select the channel you'd like to edit.

**DELETE:** When you select a channel, a dialogue box of "Are you sure?" will appear on the screen after pressing the red key, then press "**◀**" key to delete the channel, Press "**▶**" key to cancel operation.

**MOVE:** After selecting channel press the green key, press "**▲/▼**" key to select the channel position that you'd like to move, then press "**OK**" key to confirm. You can press "**MENU**" key to return main menu.

**SKIP:** After selecting channel press the blue key, SKIP icon appears behind the channel which you select, press the blue key again to cancel it. Press "**MENU**" key to return main menu.

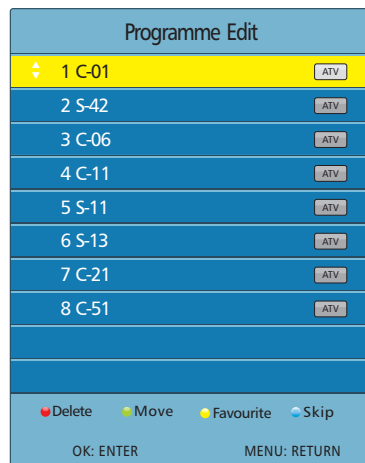


Fig.9

**Favourite:** After choosing channel press the yellow key, Favourite icon appears behind the channel which you select, press the yellow key again to cancel it. Press "**MENU**" key to return main menu.

### Signal Information

Press "**MENU**" key, CHANNEL menu shows on the screen. Press "**▲/▼**" key to select Signal Information. Press "**OK**" key to enter into Signal Information menu. You can look through signal information.

### CI Information

Press "**MENU**" key, CHANNEL menu shows on the screen. Press "**▲/▼**" key to select CI Information. When you insert the CI card, press "**OK**" key to enter into CI Information menu. You can look through CI information.

**Note:** Before you press "**MENU**" key, please select the input source first. Only in DTV mode you can select it.

### Software Update(USB)

Update software by U disk.

### Select Channels with "CH+/CH-" Key

Press "**CH+/CH-**" key to select the channels.

## Basic Operations

Select channels with the Return key: you can go to the last channel when pressing the Return key. For example, if the last channel is 10 and the current channel is 20, you will go to channel 10 when pressing the Return key. You can switch the two favourite channels as you like.

### Select Channels with Numeric Keys

- Operations to select channels with 1 digit:  
Press the number keys on the remote control to select TV channel directly.
- Operations to select channels with 2 digits:  
Press the number keys with 2 digits on the remote control to select TV channels.
- Operations to select channels with 3 digits:  
Press the number keys with 3 digits on the remote control to select TV channels.

### PICTURE

Press "MENU" key, CHANNEL menu shows on the screen. Press "◀/▶" key to select PICTURE (Fig.10), then press "▲/▼" key to choose the item you'd like to adjust or set.

**Picture Mode:** Press "OK" key to enter into picture mode submenu. Press "▲/▼" key to select item you'd like to adjust or set, and press "◀/▶" key to adjust the item.

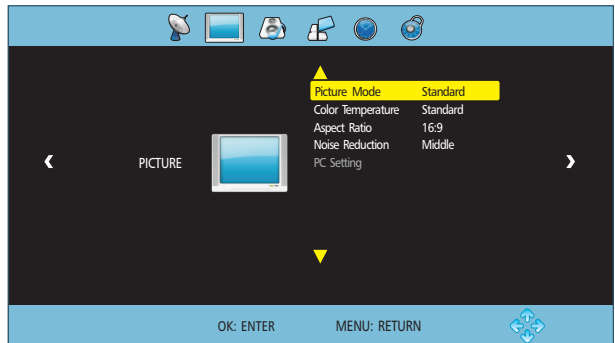


Fig.10

Item	Function	Description
Picture Mode	Select picture mode	"Standard", "Soft", "User", "Dynamic" four modes.
Contrast	Adjust the contrast of whole picture	Increasing analog value increases Contrast; Decreasing analog value decreases Contrast (0-100).
Brightness	Adjust brightness and blackness of whole picture	Increasing analog value increases brightness; Decreasing analog value decreases brightness(0-100).
Color	Adjust the color of whole picture	Increasing analog value increases color temperature; Decreasing analog value decreases color temperature (0-100).
Sharpness	Adjust the sharpness of whole picture	Increasing analog value increases definition; Decreasing analog value decreases definition (0-100).
Tint	Adjust the tint of whole picture	Increasing analog value increases green; Decreasing analog value increases purple (0-100).

**Note:** Tint can be adjusted only in NTSC system.

**Color Temperature:** Press "OK" key to enter into Color Temperature submenu. Press "▲/▼" key to select item you'd like to adjust or set, and press "◀/▶" key to adjust the item.

Item	Function	Description
Color Temperature	Select Color Temperature	"Standard", "Warm", "User", "Cool" four modes.
Red	Adjust red of whole picture	Increasing analog value increases red; Decreasing analog value decreases red (0-100).
Green	Adjust green of whole picture	Increasing analog value increases green Decreasing analog value decreases green (0-100).
Blue	Adjust blue of whole picture	Increasing analog value increases blue; Decreasing analog value decreases blue (0-100).

## Basic Operations

**Note:** The adjustment on Red, Green and Blue can be adjust only under User states.

**Aspect Ratio:** Press "OK" key to enter into Aspect Ratio submenu. Press "▲/▼" key to select aspect ratio mode: Auto, 4:3, 16:9, Zoom1, Zoom2 and Panorama.

**Noise Reduction:** Press "OK" key to enter into Noise Reduction submenu. Press "▲/▼" key to select Noise Reduction mode: Off, Low, Middle, High and Default.

### SOUND

Press "MENU" key, CHANNEL menu shows on the screen. Press "◀/▶" key to select SOUND (Fig.11), then press "▲/▼" key to select the item you'd like to adjust or set, Press "OK" key on the remote control to set or enter into next menu.

**Sound Mode:** Press "OK" key to enter into sound mode submenu. Press "▲/▼" key to select item you'd like to adjust or set, and press "◀/▶" key to adjust the item.

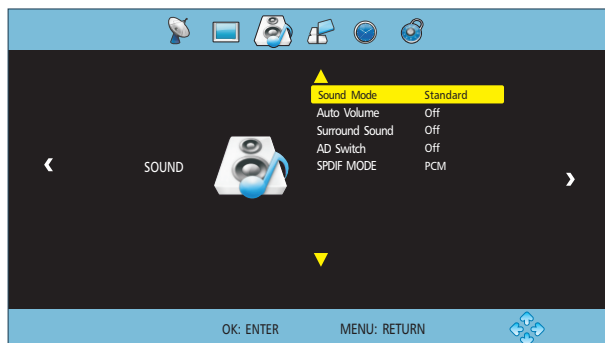


Fig.11

Item	Function	Description
Sound Mode	Select Sound Temperature	"Standard", "Music", "Movie", "Sports", "User" five modes.
Treble	Adjust treble value	Increasing analog value increases treble; Decreasing analog value decreases treble (0-100).
Bass	Adjust bass value	Increasing analog value increases bass; Decreasing analog value decreases bass (0-100).
Balance	Adjust balance of left or right sound	Increasing analog value decreasing left volume; Decreasing analog value decreases right volume(0-100).

**Auto Volume:** Press "OK" key to select "On" or "Off", open or close Auto Volume function.

**Surround Sound:** Press "OK" key to enter into Surround Sound submenu. Press "▲/▼" key to select surround sound mode: Off, Surround.

**AD Switch:** Press "OK" key to enter into AD Switch submenu. Press "◀/▶" key to select "On" or "Off", when you select "On", you can adjust AD volume by pressing "◀/▶" key.

**SPDIF MODE:** Press "OK" key to select "PCM" or "AUTO".

### OPTION

Press "MENU" key, CHANNEL menu shows on the screen. Press "◀/▶" key to select OPTION (Fig.12), then press "▲/▼" key to select the item you'd like to adjust or set.

**OSD Languages:** Press "OK" key to Enter into OSD languages submenu. Press "▲/▼/◀/▶" key to select

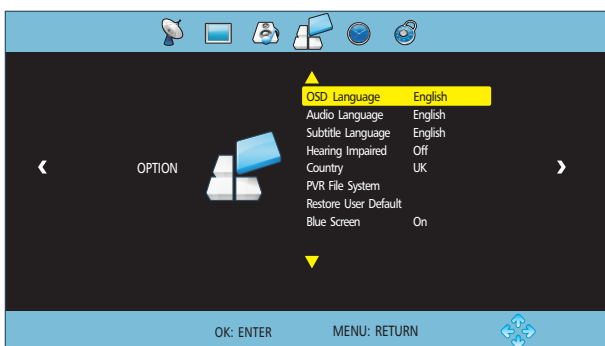


Fig.12

## Basic Operations

language which you wish. Press **"MENU"** key to return previous menu.

**Note:** The operation method of the Audio Languages, and Subtitle Language are the same as OSD Languages (Only available in DTV).

**Hearing Impaired:** Press **"OK"** key to select "On" or "Off" (only available in DTV).

**Country:** Displays the country you selected before performing Auto Tuning function. (To change country, go to Auto Tuning in the Channel menu.)

**PVR File System:** Press **"OK"** key to enter into PVR File System submenu(Fig.13). Choosing storage disk in "select disk" submenu , Press **"▲/▼"** key to select "Check PVR File System", then the machine start check by pressing **"OK"** key. After checking successful, press **"MENU"** key to exit menu operation. Press **"REC"** key to record.

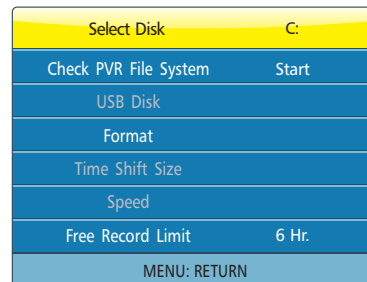


Fig.13

**Note:** Insert U disk into the interface of the machine before operating the PVR File System function.

**Restore User Default:** The screen display "Are you sure?" by pressing **"OK"** key .You can press **"◀"** key to resume the factory setting or press **"▶"** key to cancel current operation.

**Blue Screen:** Press **"OK"** key to select "On" or "Off". Open or close Blue Screen function.

### TIME

Press **"MENU"** key, CHANNEL menu shows on the screen. Press **"◀/▶"** key to select TIME (Fig.14), then Press **"▲/▼"** key to select the item you'd like to adjust or set.

**Clock:** When in DTV input source, The clock will be synchronized with TV programme .

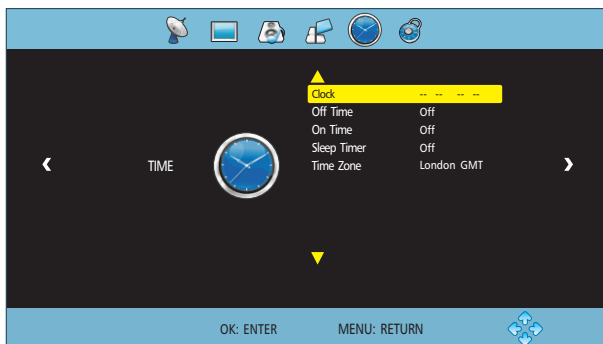


Fig.14

**Off Time:** Press **"OK"** key to enter into Off Time submenu. Press **"▲/▼"** key to select Off Time, Hour and Minute, then press **"◀/▶"** key to adjust value to set the off timers that the TV will switch off automatically at the time you select.

**Note:** You can set Hour and Minute only the Off Time is not under "Off" Mode.

**On Time:** Press **"OK"** key to enter into On Time submenu. Press **"▲/▼"** key to select On Time, Hour and Minute, DTV, channel, Volume, then press **"◀/▶"** key to adjust value to set the on timer that the TV will switch on automatically and tune to the mode of your choice at the time you select.

**Sleep Time:** Press **"OK"** key to enter into Sleep Time submenu. Press **"▲/▼"** key to select sleep time: Off, 10min, 20min, 30min, 60min, 90min, 120min, 180min, 240min.

**Time Zone:** Press **"OK"** key to enter into Time Zone submenu. Press **"▲/▼/◀/▶"** key to select your time zone.



## Basic Operations

### LOCK

Press "**MENU**" key, CHANNEL menu shows on the screen. Press "**◀/▶**" key to select LOCK. After pressing "**OK**" key, press the Numerical key to input default password 0000 for entering LOCK menu (Fig.15), and then press "**▲/▼**" key to select the item you'd like to adjust or set.

**Lock System:** Press "**OK**" key to select "On" or "Off", Block program option can work when It is on state.

**Set Password:** Press "**OK**" key, then a dialogue box of "Set Password" appears on the screen. Press the numerical key to input old password, and input new password twice to complete the password change and return to last menu. **Note:** Please make sure you remember your new password after changing. Otherwise, system will lock forever when system lock is on .

**Block Program**, press "**OK**" key, then a "Block Program" menu shows on the screen. Press "**▲/▼**" key to select the channel that you'd like to lock, and then press the green key to lock or unlock, finally press "**MENU**" key to exit menu operation.

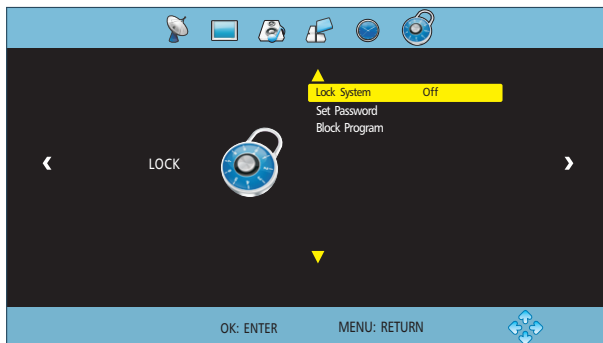


Fig.15

### REC option

In DTV mode, Press "**REC**" key, REC option menu shows on the screen.(Fig.16) and system begin recording right now. Press "**REVEAL**" key to stop and quit recording; After quit recording, press "**INDEX**" key, the recorded list will pop up, select the file you want to play, you can read the file information by pressing "**▶**" key or delete it by pressing "**REC**" key. Press "**OK**" key to play it.



Fig.16

Icon	Description
①	Indicates that system is recording program.
②	Indicates the current program number.
③	Indicates the recorded program duration..
④	Indicates the longest duration that U disk can provide (relevant to the capacity of U disk)
⑤	Indicates the current program time.
▶	<b>Play:</b> Select this icon, press " <b>OK</b> " key to play the video or set A-B repeat.
◀	<b>FB:</b> Select this icon, press " <b>OK</b> " key to fast back, press " <b>INDEX</b> " key to play normally.
▶	<b>FF:</b> Select this icon, press " <b>OK</b> " key to fast forward, press " <b>INDEX</b> " key to play normally.
◀	<b>Prev.:</b> Select this icon, press " <b>OK</b> " key to play previous chapter from recorded list.
▶	<b>Next:</b> Select this icon, press " <b>OK</b> " key to read next chapter from recorded list.
	<b>Pause:</b> Select this function, press " <b>OK</b> " key to play or pause.
■	<b>Stop:</b> Select this icon, press " <b>OK</b> " key to stop and quit playing window.



## Basic Operations

**Note:** The recording function can only support memorizer with Fat32 file system. Memorizer with other file systems need to be formatted; Before formatting memorizer, back-up useful data because the content of memorizer can not recover after formatting.

### Time-shift option

In DTV mode, Press **"ZOOM"** key, Time-shift option menu shows on the screen(Fig.17) and the program is in suspended state. Press **"INDEX"** key to resume play program. Press **"REVEAL"** key to stop and quit time-shift. When user leaves program for a short time, time-shift function can suspend and cache the playing program to U disk. When user resumes playing, the program can continue to be played.



Fig.17

Icon	Description
①	Indicates that program is in the suspended state.
②	Indicates the time when the program suspended..
③	Indicates the longest cache time that Udisk can provide.
④	Indicates the Current program time.
▶	<b>Play:</b> Select this icon, press <b>"OK"</b> key to Play the video or set A-B repeat.
◀	<b>FB:</b> Select this icon, press <b>"OK"</b> key to fast back, press <b>"index"</b> key to play normally.
▶▶	<b>FF:</b> Select this icon, press <b>"OK"</b> key to fast forward, press <b>"index"</b> key to play normally.
◀◀	<b>Prev.:</b> Select this icon, press <b>"OK"</b> key to play previous chapter from recorded list.
▶▶	<b>Next:</b> Select this icon, press <b>"OK"</b> key to read next chapter from recorded list.
⏸	<b>Pause:</b> Select this function, press <b>"OK"</b> key to play or pause.
■	<b>Stop:</b> Select this icon, press <b>"OK"</b> key to stop and quit playing window.

### EPG option

In DTV mode, Press **"EPG"** key, EPG option menu shows on the screen(Fig.18). User can make following operation with the red, green, yellow, blue multifunction keys.

Icon	Description
● Record	Press the red key to enter the sub-menu. You can choose the time of the appointment to record you want.
● Info	Press the green key to display the detail information about the program.
● Schedule	Press the yellow key to see the setting that you have done before.
● Remind	Press the blue key to set the time that you want to remind the program you want to see.

PROGRAMME GUIDE	CHANNEL
CH 800 YLE TV1	
21:10-21:39	A-studio
21:40-21:59	A-plus
22:00-22:49	Kaasua
22:50-22:59	T-uutiset
23:00-23:04	Kulttuur uutiset
● Record OK:ENTER	● Info   ● Schedule   ● Remind

Fig.18

### USB media function

Please insert USB storage device into USB interface of TV, and press **"SOURCE"** key, then the menu of "Input Source" will be displayed on the screen. Then press **"▲/▼"** key to select USB. Press **"OK"** key to enter into USB (Fig.19).

## Basic Operations

### Note:

- ① USB function support file format with video file/sound file/graphic file/text file. For some nonstandard USB storage devices, may appear condition of unable recognize, please replace the standard USB storage device.
- ② Streaming media system to play a file for each format has certain limitations, if more than the system limit, then play will be wrong.
- ③ Do not pull up USB storage devices when system playing, this may result in system or equipment problems
- ④ The system supports USB1.1 and USB2.0 connector, the standard transport protocol such as U disk and removable hard disk storage devices, USB devices file format must be FAT or FAT32, does not support NTFS.
- ⑤ The USB interface of this TV set can supply a voltage of 5V and the maximum current is 500mA; accurate identification of the multimedia player will be affected when a storage device above 500mA is used, which is a normal phenomenon.

### ★Remote Control Shortcut Keys

The "INDEX", "ZOOM", "REVEAL", "TTX", "HOLD", "LIST", "LANGUAGE", "RADIO" keys on the remote control are used for USB operation.

Press "◀/▶" key to select the adjustment sort menu, which includes 4 sorts: PHOTO, MUSIC, MOVIE, TEXT.

Press "◀/▶" key to select PHOTO. Then press "OK" key to read your photo documents. Press "▲

/▼/◀/▶" key to select photo and press "OK" key (After the photo was selected, the file lower right corner shows a red hook. you can choose photos to join playlist.). Press "INDEX" key on the remote control to play. When you choose nothing, the machine will join all the photos in the file in playlist automatically.

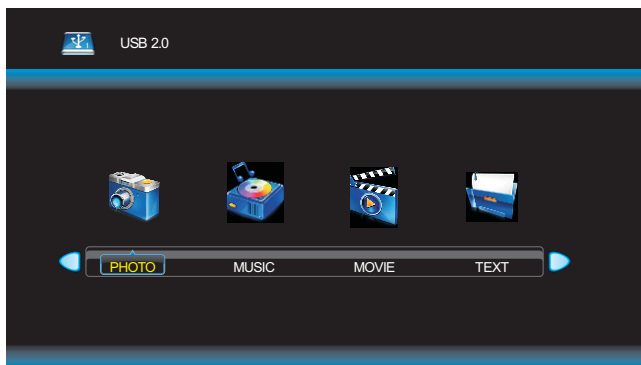








Fig.19




























**Note:** The operation method of the MUSIC, MOVIE and TEXT are the same as PHOTO. Please refer to PHOTO options.

### Basic Function

When photos are playing, press "INFO" key, then a toolbar will display under the screen. (Press "▼" key to hide toolbar).

	<b>Play/Pause:</b> Press "◀/▶" key on the remote control to select this function, press "OK" key to play or pause.
	<b>Prev.:</b> Press "◀/▶" key on the remote control to select this function, press "OK" key to read previous photo.
	<b>Next:</b> Press "◀/▶" key on the remote control to select this function, press "OK" key to read next photo.
	<b>Stop:</b> Press "◀/▶" key on the remote control to select this function, press "OK" key to stop playing and return to previous menu.
	<b>Repeat:</b> Press "◀/▶" key on the remote control to select this function, press "OK" key to select repeat One or repeat all or not repeat.
	<b>Music:</b> Press "◀/▶" key on the remote control to select this function, press "OK" key to play background music.(Music and photos need to place in the identical folder, or you may select some music in music file first.)

## Basic Operations

	<b>Playlist:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to show playlist.
	<b>Info. :</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to show the information of photo. Including resolution, size and so on.
	<b>Clockwise:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to clockwise rotation photo.
	<b>Counter-clockwise:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to counter-clockwise rotation photo.
	<b>Zoom in:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to enlarge picture.
	<b>Zoom out:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to reduce picture.
	<b>Movie View:</b> If the picture big enough to surpasses the screen, you may use this function to move the picture.
	<b>FB:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to fast back. Press " <b>PLAY</b> " key to play normally.
	<b>FF:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to fast forward. Press " <b>PLAY</b> " key to play normally.
	<b>MUTE:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to fast back. Press " <b>MUTE</b> " key to Switch off sound.
	<b>GO TO Time:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to select the time to play.
	<b>Set A:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to set A and B, the film will circulating play in the time of A to B.
	<b>SF:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to slow down play speed. Press " <b>PLAY</b> " key to play normally.
	<b>Step:</b> Press "  " key on the remote control to select this function, press " <b>OK</b> " key to play one step by step. Press " <b>PLAY</b> " key to play normally.

## Troubleshooting

Symptom	Factor	Solution
Snowflake speckle and sound noise.	<ol style="list-style-type: none"> <li>1. Antenna cable connector is loose, cable is damaged.</li> <li>2. Antenna cable type is not matching.</li> <li>3. Direction or position of antenna is incorrect.</li> <li>4. Signal is weak.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check the antenna cable connector plug whether or not loose, cable whether or not perfect.</li> <li>2. Check antenna cable type(VHF/UHF)</li> <li>3. Adjust direction or position of antenna .</li> <li>4. Attempt to use signal amplifier.</li> </ol>
TV image is better, but has noise.	Antenna cable connector is loose, cable is damaged.	Check the antenna cable connector plug whether or not loose, check cable condition.
No image. No sound.	Power plug is loose, power cord don't connect well.	<ol style="list-style-type: none"> <li>1. Check power cord whether or not connect well.</li> <li>2. Check if "ⓘ" button on the panel is on.</li> </ol>
TV image has stripes.	Signal is exposed to interference, such as car, neon light, electric blower etc.	Don't use electric blower around machine, adjust antenna cable direction to reduce interference.
TV image has shadows.	<ol style="list-style-type: none"> <li>1. TV signal is reflected by valley or building.</li> <li>2. Direction of antenna is incorrect.</li> </ol>	<ol style="list-style-type: none"> <li>1. Use high directional antenna.</li> <li>2. Adjust direction of antenna.</li> </ol>

## Troubleshooting

Symptom	Factor	Solution
TV no sound.	1. Volume setting is too low. 2. Sound is muted.	1. Adjust volume to proper value. 2. Press "MUTE" key on remote control to eliminate mute.
Computer no display, and prompt no signal input, red indicator LED twinkling.	Signal cable is loose or fallen off.	Check signal cable whether or not loose, fall off, reconnect again.
Remote control distance is short, lose control.	1. Receive window of remote control was covered by objects. 2. The battery energy of remote control is too low.	1. Remove objects, obstructing the receiver window of remote control. 2. Change battery.
Computer display is faint.	1. Adjustment is incorrect. 2. Display mode is incorrect.	1. Use auto-adjustment function. 2. Use recommended mode.
Computer display image does not fill the screen.	1. Adjustment is incorrect. 2. Display mode is incorrect.	1. Use Auto-adjustment function. 2. Enter "PICTURE" to adjust horizontal or vertical position. 3. Use recommended mode.
Noise Signals at turning off.	Electrical release at turning off.	It is normal.
Can not operate this machine.	Exterior influence, for example lightning, static electricity and so on, which are possibly to disturb the normal operation of this machine.	Press "⏻" button to turn off electrical source, then press "⏻" button to turn on the TV again after 1-2 minutes.

## Technical Specifications

### Master unit

Panel size	32" (HD)	32" (FHD)
Max. Resolution	1366×768	1920×1080
Best Resolution	1360×768@60Hz	1920×1080@60Hz
Pixel Pitch	0.51075mm×0.51075mm	0.36375mm×0.36375mm
Active Area	697.685mm×392.256mm	698.40mm×392.85mm
Power Supply	100-240VAC 60/50Hz	
Power Consumption of Speaker	8W+8W	
Dimension (L×H×W) and Weight	Excluding base	Unpacking: 738×451×47(mm <sup>3</sup> )
	Including base	Unpacking: 738×492×47(mm <sup>3</sup> )    Net Weight: 8.5kg
		Packing: 940×547×145(mm <sup>3</sup> )    Gross Weight: 10kg
		Unpacking: 738×492×47(mm <sup>3</sup> )    Net Weight: 10kg
		Packing: 940×547×145(mm <sup>3</sup> )    Gross Weight: 11.5kg

## Technical Specifications

Panel size	36.5"		
Max. Resolution	1366×768		
Best Resolution	1360×768@60Hz		
Pixel Pitch	0.5916mm×0.5916mm		
Active Area	808.128mm×454.348mm		
Power Supply	100-240VAC 60/50Hz		
Power Consumption of Speaker	8W+8W		
Dimension (L×H×W) and Weight	Excluding base	Unpacking: 848×515×47(mm <sup>3</sup> )	
	Including base	Unpacking: 848×562×47(mm <sup>3</sup> )	Net Weight: 10.5kg
		Packing: 1060×612×145(mm <sup>3</sup> )	Gross Weight: 12.5kg
		Unpacking: 848×562×47(mm <sup>3</sup> )	Net Weight: 12.5kg
		Packing: 1060×612×145(mm <sup>3</sup> )	Gross Weight: 14.5kg

Panel size	42"		
Max. Resolution	1920×1080		
Best Resolution	1920×1080@60Hz		
Pixel Pitch	0.4845mm×0.4845mm		
Active Area	930.24mm×523.26mm		
Power Supply	100-240VAC 60/50Hz		
Power Consumption of Speaker	8W+8W		
Dimension (L×H×W) and Weight	Excluding base	Unpacking: 971×582×47(mm <sup>3</sup> )	
	Including base	Unpacking: 971×632×47(mm <sup>3</sup> )	Net Weight: 13.5kg
		Packing: 1180×687×145(mm <sup>3</sup> )	Gross Weight: 16kg
		Unpacking: 971×632×47(mm <sup>3</sup> )	Net Weight: 15.5kg
		Packing: 1180×687×145(mm <sup>3</sup> )	Gross Weight: 18kg

Panel size	50"		
Max. Resolution	1920×1080		
Best Resolution	1920×1080@60Hz		
Pixel Pitch	0.5708mm×0.5708mm		
Active Area	1095.84mm×616.41mm		
Power Supply	100-240VAC 60/50Hz		
Power Consumption of Speaker	8W+8W		
Dimension (L×H×W) and Weight	Excluding base	Unpacking: 1134×660×47(mm <sup>3</sup> )	Net Weight: 16.5kg
		Packing: 1250×782×150(mm <sup>3</sup> )	Gross Weight: 20kg
	Including base	Unpacking: 1134×717×47(mm <sup>3</sup> )	

Operating environment: temperature: 5℃~40℃; RH: 10%~85%; atmospheric pressure: 86kPa~104kPa

Storage environment: temperature: -20℃~55℃; RH: 5%~95%; atmospheric pressure: 86kPa~104kPa

## Technical Specifications

### Technical Specifications for TV

1. Compatible system: **ATV**: PAL B/G, I, D/K, SECAM L', B/G, D/K  
**DTV**: DVB-T, DVB-T2 (optional)
2. Antenna input: coaxial 75  $\Omega$  unbalanced
3. AV video input: 75  $\Omega$ , 1 Vp-p, RCA terminal
4. AV audio input: 20k  $\Omega$ , 500mV RMS
5. YPbPr / HDMI video input: 480i, 480P, 576i, 576P, 720P, 1080i, 1080P

### VGA display mode

32"(HD) / 36.5"

NO.	Mode	Resolution	Refresh rate
1	VGA	720×400	70Hz
2		640×480	60Hz
3	SVGA	800×600	60Hz
4	XGA	1024×768	60Hz
5	WXGA	1360×768	60Hz

*Recommended mode: 1360X768@60Hz*

32"(FHD) / 42" / 50"

NO.	Mode	Resolution	Refresh rate
1	VGA	720×400	70Hz
2		640×480	60Hz
3	SVGA	800×600	60Hz
4	XGA	1024×768	60Hz
5		1280×720	60Hz
6	WXGA	1360×768	60Hz
7		1600×900	60Hz
8	WUXGA	1920×1080	60Hz

*Recommended mode: 1920X1080@60Hz*

### Power management

Mode	Power LED state	Power consumption			
		32"	36.5"	42"	50"
Normal working	Off	≤75W	≤100W	≤98W	≤110W
Standby	On	≤0.5W	≤0.5W	≤0.5W	≤0.5W