

COLOUR TELEVISION

SP42W4/42W5 SP43T6/43T7/43T8/43W6 SP47Q7/47W1/47W3 SP48T6 SP52Q7 SP54T6/54T8 SP55W3 SP62T6/62T8 SP65W3

Owner's Instructions

Before operating the unit, please read this manual thoroughly, and retain it for future reference.



DOLBY SURROUND

Important Warranty Information Regarding Television Format Viewing

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying any stationary images that exceed the above guidelines can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven CRT aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.

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Safety Instructions

- Do not expose the television to extreme temperature conditions or to extreme humidity conditions.
- Do not expose the television to direct sunlight and other sources of heat.
- Do not expose the television to any liquids.
- Never put objects of any kind into the television, and do not place a water-containing vessel on the television.
- During a storm conditions (especially when there is lightning) unplug the television from the mains socket and aerial.
- Do not step on or twist the power cord.
- Do not overload wall outlets or extension cords as this can result in a risk of fire or electric shock.
- Please use a soft and dry cloth (not containing volatile matter) when you clean the TV.
- If the television is broken, do not try to repair it yourself. Contact qualified service personnel.
- If the remote control is not used for a long period of time, remove the batteries and store it in a cool, dry place.
- Do not drop the remote control.

Displaying any stationary images that exceed the long time, it can cause uneven aging of picture tubes that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.

This device is not for use in industrial environments.

Caution



WARNING: TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD. DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. The lightning flash and arrow head within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.



The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.





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Important



Control Panels (depending on the model)

>

The actual configuration on your TV may be different, depending on your model.



Control Panels (depending on the model)

The actual configuration on your TV may be different, depending on your model.



ENG

Connection Panels (depending on the model)

>

ENG

The actual configuration on your TV may be different, depending on your model.

Side of the TV







Rear of the TV



Using a Display Deck (depending on the model)

You can display a VCR or DVD Player, etc. by using the display deck.

<u>SP47W3/55W3/65W3</u>

- 1 Press the symbol "....." at the center of the display deck.
- **2** Hold the center of the door and lift it up in the direction of arrow till a 'ttok' sound sounds.
- **3** After placing a component you have in the display deck, hold the center of the door and pull it down.
- 4 Shut the door by pressing the symbol ".....".

<u>SP54T8/62T8</u>

- **1** Hold the center of the door and lift it up in the direction of arrow.
- **2** After placing a component you have in the display deck, hold the center of the door and pull it down.

You should display only the component that is within 126mm high. When displaying a component in the display deck, please space it out 30mm from the front, 20mm from either end.

<u>SP47W3/55W3/65W3</u>





Infrared Remote Control



Inserting the Batteries in the Remote Control

You must insert or replace the batteries in the remote control when you:

- Purchase the television
- Find that the remote control is no longer operating correctly
- 1 Remove the cover on the rear of the remote control by pressing the symbol downwards and then pulling firmly to remove it.
- 2 Insert two R03, UM4, "AA" 1.5V or equivalent batteries taking care to respect the polarities:
 - + on the battery against + on the remote control
 - on the battery against on the remote control
- **3** Replace the cover by aligning it with the base of the remote control and pressing it back into place.





Connecting to an Aerial or Cable Television Network

To view television channels correctly, a signal must be received by the set from one of the following sources:

- An outdoor aerial
- A cable television network
- ♦ A satellite network
- 1 In the first three cases, connect the aerial or network input cable to the 75Ω coaxial socket on the rear of the television.
- 2 If you are using an indoor aerial, you may need to turn it when tuning your television until you obtain a picture that is both sharp and clear.

For further details, refer to:

- "Storing Channels Automatically" on page 18
- "Storing Channels Manually" on page 20



Switching Your Television On and Off



The mains lead is attached to the rear of your television.

 If you have purchased this television in the United Kingdom, refer to page 53 for further instructions on plug wiring.

- **1** Plug the mains lead into an appropriate socket.
 - The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.
- 2 Press the "I" button (On/Off) on the front of the television.

Result: The Standby indicator on the front of the television lights up.

- **3** Press the **Power** (()) button on the remote control to switch the television on.
 - <u>Result</u>: The programme that you were watching last is reselected automatically.
 - If you have not yet stored any channels, No clear picture appears. Refer to "Storing Channels Automatically" on page 16 or "Storing Channels Manually" on page 18.
- 4 To switch your television off, press the "I" button (On/Off) again.

Placing Your Television in Standby Mode



Your television can be placed in Standby mode, in order to reduce the power consumption.

The Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1 Press the **Power** (()) button on the remote control.

<u>Result</u>: The screen is turned off and the Standby indicator on the front of the television lights up in red.

- 2 To switch the television back on, simply press the **Power** (也) button again.
 - Do not leave your television in Standby mode for long periods of time (when you are away on holiday, for example). Turn your television off by pressing the " I " button (On/Off) on the front of the television. It is best to unplug the set from the mains and aerial.

Becoming Familiar with the Remote Control

The remote control is used mainly to:

- Change channels and adjust the volume
- Set up the television using the on-screen menu system

The following table presents the most frequently used buttons and their functions.

Button	Viewing Function	Menu Function	
<u>^</u> Р	Used to display the next stored channel.		
\sim	Used to display the previous	stored channel.	
(1) to (19)	Used to display the correspo	nding channels.	
-//	Used to select a channel numbered ten or over. Press this button, and enter the two or three-digit channel number (depending on the model).		
VOL	Used to increase the volume.		
Mute ≪	 Used to switch the sound off temporarily. To turn the sound back on, press this button again, or VOL- or VOL+ button. 		
		Used to return to the previous menu or normal viewing.	
▲ ▲ ► ▼ ►	_	 Used to ◆ Display a submenu containing selections for the current menu option. ◆ Increase/reduce a menu option value. 	
€	-	Used to confirm your choice.	
	Used to switch the television on when it is in Standby mode.	Used to exit from the menu system and return to normal viewing directly.	



Plug and Play Feature

Plug & Play Language English БЬЛГАРСКИ Čeština Netherland V Sel. ♦ Sel: ATM Belgium 0 MHz P0 Time Clock -- : --> Sel.

When the television is initially powered on, several basic customer settings proceed automatically and subsequently. The following settings are available.

- 1 If the television is in Standby mode, press the **Power** (()) button on the remote control.
 - Result: The message **Plug & Play** is displayed. It flickers for a little while and then **Language** menu is automatically displayed.
- 2 Select the appropriate language by pressing the ▼ or ▲ button. Press the **Menu** button to enter the language.
 - <u>Result</u>: The message **Antenna input check** is displayed.
 - If any language is not selected on the Language menu, the Language menu will disappear about 30 seconds later.
- **3** Make sure that the antenna is connected to the TV. Press the \blacktriangleleft or \blacktriangleright button.
 - Result: The **ATM** menu is displayed.
- 4 Select your country by pressing the ◄ or ► button.
- **5** To search the channels, press the \bigcirc button.
 - Result: The channels are stored in an order which reflects their positions in the frequency range. Finally, the search will end automatically. When the channels have been stored, the **Time** menu is displayed with **Clock** is selected.
 - To stop the search before it has finished, press the Menu button.
- 6 Press the ◄ or ► button to move to the hour or minute. Set the hour or minute by pressing the ▼ or ▲ button.
 - Refer to "Setting and Displaying the Current Time" on page 34.
- 7 When you have finished, press the **Menu** button.
 - Result: The message **Enjoy viewing your new TV** is displayed, and then the channel which has been stored will be activated.

Plug and Play Feature

If you want to reset this feature...

1	Press the Menu button.	
	Result:	The main menu is displayed.
2	Press the \triangledown or \blacktriangle button to select Function .	
	<u>Result</u> :	The options available in the Function group are displayed.
3	Press the 🚭 button.	
4	Press the ▼ or ▲ button to select Plug & Play . Press the ↔ button.	
	<u>Result</u> :	This feature starts with the message Plug & Play is displayed.



Viewing the Demonstration



To become familiar with the various menus provided by your television, you can view the inbuilt demonstration.

1	Press the Menu button.	
	Result: The main menu is displayed.	
2	Press the \triangledown or \blacktriangle button to select Function .	
	Result: The options available in the Function group are displayed.	
3	Press the 🚭 button.	
4	Press the \blacksquare or \blacktriangle button to select Demonstration . Press the \bigcirc button.	
	Result: Each of the menu options is displayed in turn.	
	When you wish to exit from the demonstration, press the TV button on the remote control.	

Choosing Your Language





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When you start using your television for the first time, you must select the language which will be used for displaying menus and indications.

1	Press the Menu button.	
	Result:	The main menu is displayed.
2	Press the	\blacksquare or \blacktriangle button to select Function .
	<u>Result</u> :	The options available in the Function group are displayed.
3	Press the	➡ button.
	Result:	The Language is selected.
4	Press the 🚭 button again.	
	Result:	The languages available are listed.
5	Press the	\blacksquare or \blacktriangle button to select the appropriate language.

Adjusting Convergence

If the color appears spread out or "smeared" on the screen, the convergence probably needs alignment. Be sure to use the remote control for the convergence adjustments. (The Convergence Adjustment can not be made by using the control buttons on the front panel.)

1	Press the	MENU button.
	Result:	The main menu is displayed.
2	Press the	▼ or ▲ button to select Function .
	<u>Result</u> :	The options available in the Function group are displayed.
3	Press the	🕒 button.
4	Press the \triangledown or \blacktriangle button to select Convergence . Press the $$ button.	
	<u>Result</u> :	The options available in the Convergence group are displayed with Red is selected.
5	Press the	🚭 button again.
	Result:	A crosshair pattern is appeared.
6	Adjust cor	nvergence by using your remote control.
	♦ Use th	ne $\nabla/▲/⊲/►$ buttons to all directions for select the

- position.
- Press the "0" button to select red or blue convergence.
- To move the line so that it is superimposed on the horizontal or vertical center-line, use the volume up/down (VOL +/-) and channel up/down ($\mathbf{P} \wedge / \mathbf{V}$) buttons (i.e., make a signal horizontal or vertical line that is as white as possible).
- Press the Menu button to exit.

You can adjust convergence automatically for the optimum in the factory.

7 Select **Perfect Focus** in the **Function** group, then press the button. Result: Perform Perfect Focus in the following sequence: green \rightarrow red \rightarrow blue.

After the cursor flickers for one second, the perfect focus feature ends.

- >You can also adjust simply by pressing the Perfect Focus button.
- When the size of the sub picture is selected to the "12 PIP" or "3 **PIP**" mode, the Perfect Focus feature does not work.













Picture Country Belgium \bigcirc ATM Manual Store Channel Sort Function Name Channel Edit PIP



	Chann	el
Picture		
	Country	Belgium
Sound 🔍	ATM	•
3	Manual Store	•
Channel	Sort	•
10	Name	•
Function	Channel Edit	•
PIP PIP		
▲ ▼ Move	G Enter	III Exit



You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.

1	Press the Menu button. <u>Result</u> : The main menu is displayed.
2	Press the ▼ or ▲ button to select Channel. Result: The options available in the Channel group are displayed.
3	Press the 🗗 button. <u>Result</u> : The Country is selected.
4	 Press the → button again. Select your country by pressing the v or ▲ button. The countries are displayed in the following order: Belgium - Germany - Spain - France - Italia - Netherlands Swizerland - Sweden - United Kingdom - East europe - Others. >> If you have selected the Others option but do not wish to scan the PAL frequency range, store the channels manually (see page 20).
5	Press the Menu button. <u>Result</u> : The options available in the Channe1 group are displayed again.
6	Press the ▼ or ▲ button to select ATM. Press the 🛨 button.
7	 Press the button again to start the search. <u>Result</u>: The channels are stored in an order which reflects their positions in the frequency range. Finally, the search will end automatically. To stop the search before it has finished, press the Menu
	button.
8	 When the channels have been stored, you can: Sort them in the order required (refer to page 19) Assign a name to the stored channels (refer to page 22) Clear a channel (refer to page 23)

- Fine tune channel reception if necessary (refer to page 21)
- Activate the Digital Noise Reduction feature (refer to page 26) ٠

Sorting the Stored Channels

This operation allows you to change the programme numbers of stored channels. This operation may be necessary after using auto store. You can delete the channels you do not want to keep.

1	Press the Menu button.	
	Result:	The main menu is displayed.
2	Press the	▼ or ▲ button to select Channel.
	<u>Result</u> :	The options available in the Channe1 group are displayed.
3	Press the	€ button.
4	Press the ▼ or ▲ button to select Sort. Press the 🕒 button.	
	Result:	The Sort menu is displayed.
5	Select the channel that you wish to move by pressing the \triangledown or \blacktriangle button. Press the \blacktriangleright button.	
6	moved by	number of the programme to which the channel is to be pressing the ∇ or \triangle button. Press the \triangleleft button
	<u>Result</u> :	The channel is moved to its new position and all other channels are shifted accordingly.

7 Repeat Steps 5 to 6 until you have moved all the channels to the required programme numbers.







	Chann	el
Picture		
6	Country	Belgium
Sound 🤍	ATM	<u> </u>
	Manual Store	→
Channel	Sort	•
Runction	Name	•
	Channel Edit	•
M PIP		
▲ ▼ Move	🕀 Enter	III Exit

Manual Store		
Color system	AUTO	
Sound system	BG	
Search	91MHz	
Channel	C 5	
Prog. No		
Fine tune		
▲▼ Move	♦ Sel.	

Ма	nual Sto	ore	
Color system		AUTO	
Sound system		BG	
Search		91MHz	
Channel		C 5	
Prog. No			
Fine tune			L
▲ ▼ Move	♦ Sel.	🕀 Stor	е

You can store up to 100 television channels, including those received via cable networks.

When storing channels manually, you can choose:

- Whether or not to store each of the channels found
- The programme number of each stored channel which you wish to identify

1	Press the I	MENU button.
	Result:	The main menu is displayed.
2	Press the '	▼ or ▲ button to select Channel .
	<u>Result</u> :	The options available in the Channel group are displayed.
3	Press the	⊕ ^J button.
4	Press the ' button.	▼ or ▲ button to select Manual Store. Press the 🚭
	<u>Result</u> :	The options available in the Manual Store group are displayed with Color system is selected.
5	Indicate th ► button r	e broadcasting standard required by pressing the < or epeatedly.
	<u>Result</u> :	The colour standards are displayed in the following order: AUTO - PAL - SECAM - NTSC4.43.
6		▼ or ▲ button to select Sound system. Select the ndard required by pressing the ◀ or ► button
	Result:	The sound standards are displayed in the following order:

BG - DK - I - L.

- 7 If you know the number of the channel to be stored, see the following steps.
 - Press the ∇ or \blacktriangle button to select **Channel**.
 - ♦ Press the ► button.
 - Press the ▼ or ▲ button to select c (Air channel) or s (Cable channel).
 - ♦ Press the ► button.
 - ◆ Press the ▼ or ▲ button to select indicate the required number.



- 8 If you do not know the channel numbers, select **Search** by pressing the ▼ or ▲ button. Press the ◄ or ► button to start the search.
 - <u>Result</u>: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.
- 9 If reception is weak, you can fine tune a channel manually. Press the ▼ or ▲ button to select **Fine tune**. Press the ◄ or ► button until the picture and sound are both clear and sharp.
 - You can ignore any changes made and return to the previous setting by pressing the Green (S.STD) button.
 - If you are unable to fine tune a channel, check that the Color System and Sound System settings are correct.
- 10 To assign a programme number to a channel, select **Prog.No** by pressing the **▼** or **▲** button. Press the **◄** or **▶** button to find the correct number.
- 11 To store the channel and associated programme number, press the 🕒 button.
- 12 Repeat Steps 7 to 11 for each channel to be stored.

Channel mode

- P (Programme mode): When completing tuning, the broadcasting stations in your area have been assigned to position numbers from P00 to max P99. You can select a channel by entering the position number in this mode.
- C (Real channel mode): You can select a channel by entering the assigned number to each air broadcasting station in this mode.
- S (Cable channel mode): You can select a channel by entering the assigned number for each cable channel in this mode.











 Channel

 Picture
 Country
 Belgium

 O sound
 ATM
 >

 Manual Store
 >

 Sort
 >

 Wanuel Store
 >

 Orannel
 Sort

 Mame
 >

 Channel Edit
 >

 P IP
 Image: Calenter





Channel names will be assigned automatically when channel information is broadcast. These names can be changed, allowing you to assign new names.

1	Press the	Menu button.
	Result:	The main menu is displayed.
2	Press the	▼ or ▲ button to select Channel .
	<u>Result</u> :	The options available in the Channel group are displayed.
3	Press the	Jutton.
4	Press the	▼ or ▲ button to select Name. Press the 🚭 button.
	<u>Result</u> :	The Name menu is displayed with the current channel automatically is selected.
5		ary, select the channel to be assigned to a new name by he \triangledown or \blacktriangle button. Press the \blacktriangleleft or \succ button.
	Result:	Arrow indications are displayed around the name box.
6	or a symb	 ✓ or ▲ button to select a letter (A~Z), a number (0~9) iol (-, space). Move on the previous or next letter by he ◄ or ► button.
7		have finished entering the name, press the 🕂 button the name.
8	Repeat St name.	teps 5 to 7 for each channel to be assigned to a new

Activating the Child Lock and Skipping Unwanted Channels

• Activating the child lock

This feature allows you to lock the television so that it cannot be switched on via the front panel. It can, however, still be switched on via the remote control. Thus, by keeping the remote control away from unauthorised users, such as children, you can prevent them from watching unsuitable programme.

• Skipping unwanted channels

You can exclude the channels of your choice from the channel scan operation. When you scan through the stored channels, those that you have chosen to skip are thus not displayed. All channels that you do not specifically choose to skip are displayed during scanning.

1	Press the Menu	I button.
	Result: The	main menu is displayed.
2	Press the ▼ or .	▲ button to select Channel.
		options available in the Channe1 group are layed.
3	Press the 🚭	button.
4	Press the $\mathbf{\nabla}$ or a button.	▲ button to select Channel Edit. Press the 🗗
		Channel Edit menu is displayed with the current nnel automatically is selected.
5		▲ button to select the number of the programme to nel is to be locked. Press the ► button.
6	Press the ► but	tton.
7		k the channel, select On or Off by pressing the \blacksquare bess the \boxdot button to confirm.
8	Press the ► but	tton.
-		

- 9 To erase or add the channel, select **Erased** or **Added** by pressing the ▼ or ▲ button. Press the ↔ button to confirm.
- 10 Repeat Steps 5 to 9 for each channel to be edited.









Selecting a Channel by Informations

Display PSize	Đ
Text/Mix @ Info. Sleep Perfect Focus PIP Scan Swap Locate ON CR F/II ++	



You can display the list of stored channels.

1	Press the Info. button.			
	 <u>Result</u>: A list is displayed with the first 13 channels. Two boxes to the right of the list indicate: ♦ Whether the Teletext feature is available. 			
				text feature is available.
		 Whic 	h sound mod	le is being used.
2	То		Then	
	Scroll thro	0		▼ or ▲ button. The corresponding channel is displayed.
	Select a s channel	specific		TV button. The corresponding channel is displayed and the Information box disappears.

- External inputs can be displayed and scrolled through in the same way.
 - You can display the name of the channel or input by pressing the **Display** button.

Changing the Picture Standard





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You can select the type of picture which best corresponds to your viewing requirements.

1	Press the Menu button.		
	<u>Result</u> :	The options available in the Picture group are displayed.	
2	Press the	Jutton.	
	Result:	The Mode is selected.	
3	Select the required picture effect by pressing the ◀ or ► button repeatedly.		
	Result:	<u>ssult</u> : The following picture effects are available: Dynamic – Standard – Movie – Custom .	

You can also set these options simply by pressing the P.STD (Picture Standard) button.

Adjusting the Picture Settings

Your television has several settings which allow you to control picture quality.

1	Press the I <u>Result</u> :	Menu button. The options available in the Picture group are displayed.
2	Press the	🕒 button.
3	Press the ' <u>Result</u> :	▼ or ▲ button to select Adjust. Press the → button. The options available in the Adjust group are displayed with Color tone is selected.
4		✓ or ► button to select the option (Cool2, Cool1, arm1, Warm2).
5	Brightnes	✓ or ▲ button to select the option (Contrast, ss, Sharpness, Color or Tint-NTSC only) to be Press the ◄ or ► button.

- Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◄ or ► button.
- If you make any changes to these settings, the picture standard is automatically switched to Custom.









Freezing the Current Picture

You can freeze the picture when watching a television programme simply by pressing the "Still" button.

> To return to normal viewing, press this button again.



Extra Picture Settings

(ENG)

		e
Picture		- .
	Mode	Dynamic
Sound 🤍	Adjust	<u> </u>
3A	Scan Mode	Auto
Channel	Digital NR	Off
30	Blue Screen	Off
Runction	LNA	Off
PIP PIP		
▲ ▼ Move	♦ Sel.	III Exit









• Scan Mode

You will normally find that scan mode is best set to **Natural** to reduce any slight picture flicker. However, it is possible that some occasional broadcasts (NTSC-M) may benefit by changing the scan mode. **Auto**, **Natural**, **Digital** and **Progressive** modes are available.

• Digital NR

If the signal received by your television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

Blue Screen

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the **Blue Screen** mode to **Off**.

LNA

This feature is very useful in the situation that the TV is used in a weak signal and amplifies the TV signal in the weak signal area, but not noise.

This feature is working only in a weak signal condition, and that is memorized on current channel, additional.

1	Press the Menu button.		
	Result:	The options available in the Picture group are displayed.	
2	Press the	Justice button.	
3		required option (Scan Mode, Digital NR, Blue Screen pressing the ∇ or \blacktriangle button.	

4 Press the \triangleleft or \blacktriangleright button to change the setting.

- Scan Mode : Auto, Natural, Digital, Progressive
- Digital NR : Off or On (activating)
- Blue Screen : Off or On (activating)
- LNA : Off or On (activating)

Selecting the Picture Size (depending on the model)

You can select the picture size which best corresponds to your viewing requirements by pressing the "P.Size" button simply.

Depending on the model, the following picture sizes are available:

Expanding and pulling up the picture from 4:3 to 16:9 ratio.
Adjusting the ratio of picture from 4:3 to 16:9.
Adjusting the wide picture to natural size.
Enlarging the normal 4:3 picture by 120%. Lifting is available.
Enlarging the normal 4:3 picture by 150%. Lifting is available.
Normal 4:3 ratio picture.
Automatically expanding the broadcasting signal to approprate picture.

> The picture size can not be changed in the PIP mode.

















- Normal (4:3) Model
 Normal Zoom1 Zoom2 Cinema
- Wide (16:9) Model
 Auto wide Wide Panorama Zoom1 Zoom2 Normal Cinema

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Changing the Sound Standard

D Picture	Sound	
A	Mode	Custom
Sound Sound	Equalizer	•
à.	Auto Volume	Off
Channel	Melody	On
100	Surround	Off
Function	Audio Out	Volume
PIP	Int. mute	Off
▲ ▼ Move	♦ Sel.	III Exit



You can select the type of special sound effect to be used when watching a given broadcast.

1	Press the Menu button.		
	Result:	The main menu is displayed.	
2	Press the ▼ or ▲ button to select Sound .		
	<u>Result</u> :	The options available in the Sound group are displayed.	
3	Press the 🕒 button.		
	Result:	The Mode is selected.	
4	Select the required sound effect by pressing the ◄ or ► button repeatedly.		
	<u>Result</u> :	The following sound effects are available: Custom - Standard - Music - Movie - Speech.	

You can also set these options simply by pressing the S.STD (Sound Standard) button.

Adjusting the Sound Settings





The sound settings can be adjusted to suit your personal preferences.

1	Press the MENU button. <u>Result</u> : The main menu is displayed.	
2	Press the ▼ or ▲ button to select Sound. Result: The options available in the Sound group are displayed.	
3	Press the 🚭 button.	
4	Press the ▼ or ▲ button to select Equalizer . Press the ↔	
	Result: The options available in the Equalizer group are displayed.	
5	Select the option to be adjusted by pressing the \blacktriangleleft or \blacktriangleright button. Press the \triangledown or \blacktriangle button to reach the required setting.	

If you make any changes to these settings, the sound standard is automatically switched to **Custom**.

Adjusting the Volume Automatically

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

1	Press the Menu button. <u>Result</u> : The main menu is displayed.		
2	Press the \blacksquare or \blacktriangle button to select Sound .		
	<u>Result</u> :	The options available in the sound group are displayed.	
3	Press the 🕂 button.		
4	Press the ▼ or ▲ button to select Auto Volume.		
5	To activate, select on by pressing the \blacktriangleleft or \blacktriangleright button.		



Setting the Melody Sound

You can hear clear melody sound when the television is powered on or off.

1	Press the Menu button.	
	Result: The main menu is displayed.	
2	Press the \blacksquare or \blacktriangle button to select Sound .	
	Result: The options available in the Sound group are displayed.	
3	Press the 🚭 button.	
4	Press the ▼ or ▲ button to select Melody.	
5	To activate, select on by pressing the \blacktriangleleft or \blacktriangleright button.	



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This mode allows you enjoy Dolby Pro Logic Surround effect fully with only surround speakers are connected to TV. This allows various modes for the main, center and rear speakers to be selected.

Surround Mode		Input Signal	Main	Speakers Center	Rear
Pro Logic	- Normal	Stereo Mono	v	~ ~	V
	- Phantom	Stereo Mono	v v		4
	- Wide	Stereo Mono	~	<i>v v</i>	•
3D Sound		Stereo Mono	<i>v</i> <i>v</i>		
Hall		Stereo Mono	<i>v</i> <i>v</i>		
Off		Stereo Mono	v v		

\succ	V	;	Sound
---------	---	---	-------

1	Press the Menu button. <u>Result</u> : The main menu is displayed.	
2	 Press the ▼ or ▲ button to select Sound. <u>Result</u>: The options available in the Sound group are displayed. 	
3	Press the 🚭 button.	
4	Press the ▼ or ▲ button to select Surround. Press the button. <u>Result</u> : The Surround menu is displayed with the Mode is selected.	
5	Select the option by pressing the ◀ or ► button. The surround modes are displayed in the following order. Pro Logic - 3D Sound - Hall - Off	
6	If you select the Pro Logic, the options available are displayed.	
7	Press the ▼ or ▲ button to select Pro Logic . Press the ◄ or ► button.	
8	Select the option by pressing the ◀ or ► button. The modes are displayed in the following order.	
	Normal - Phantom - Wide	
	You can also select these options simply by pressing the Surround button.	
9	When you are satisfied with the settings, press the 🗗 button to store them.	

Adjusting Your Dolby Preferences

The following Dolby settings can be adjusted to suit your personal preferences.

- Volume of the center and rear speakers
- Pro Logic delay time for the rear speakers (between 15 and 30 ms)
- Activation/deactivation of the test tone to simulate the volume on each speaker

1 Press the **Menu** button.

Result: The main menu is displayed.

2 Press the ∇ or \blacktriangle button to select **Sound**.

- <u>Result</u>: The options available in the **sound** group are displayed.
- **3** Press the 🗗 button.
- 4 Press the ▼ or ▲ button to select **Surround**. Press the ↔ button.

<u>Result</u>: The **surround** menu is displayed with the **Mode** is selected.

- 5 Select **Pro Logic** by pressing the *◄* or **▶** button.
- 6 Select the option (Center, Rear, Time Delay, Test Tone) by pressing the ▼ or ▲ button. Press the ◄ or ► button to reach the required setting.
- 7 When you are satisfied with the settings, press the 🕒 button to store them.
 - Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the double-D symbol are trademarks of Dolby Laboratories.









_	So	und
Picture		
	Mode	Custom
Sound Sound	Equalizer	▶
A	Auto Volume	Off
Channel	Melody	On
(Fr.	Surround	Off
Function	Audio Out	Volume
PIP	Int. mute	Off
▲ ▼ Move	♦ Sel.	III Exit

	Sour	id)
Picture		
	Mode	Custom
Sound 🔮	Equalizer	•
A	Auto Volume	Off
Channel	Melody	On
(Pro-	Surround	Off
Function	Audio Out	Volume
🔊 рір	Int. mute	On
▲ ▼ Move	 Sel. 	III Exit

This feature allows you can adjust to suit your personal preferences when the equipment with output is connected to the television.

1	Press the Menu button.	
	Result: The main menu is displayed.	
2	Press the \triangledown or \blacktriangle button to select Sound .	
	Result: The options available in the sound group are displayed.	
3	Press the 🚭 button.	
4	Press the ▼ or ▲ button to select Audio Out.	
5	Select the required option (Volume or Standard) by pressing the - or ► button	
	 If you want to adjust the volume level with the volume control on the TV or external amplifier, set to Volume. 	
	• If you set to Standard	
	— Vou can adjust the volume level with the volume control on	

 You can adjust the volume level with the volume control on the audio amplifier.

- The volume control buttons (Mute, VOL +/-) of the television and remote control do not work.
- 6 Press the ▼ or ▲ button to select Int. Mute. If you set to On, no sound output of internal speaker.

Selecting the Sound Mode (depending on the model)

The "S.Mode" button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either "Dual-1" or "Stereo", depending on the current transmission.

	Type of broadcast	On-screen indication
	Regular broadcast (Standard audio)	MONO (Normal use)
NICAM	Regular + NICAM Mono	MONO ↔ MONO NICAM (Normal)
Stereo	NICAM Stereo	STEREO ↔ MONO NICAM (Normal)
	NICAM Dual-I/II	Dual-I → Dual-II → MONO NICAM NICAM (Normal)
	Regular broadcast (Standard audio)	MONO (Normal use)
A2 Stereo	Bilingual or Dual-I/II	DUAL-I ↔ DUAL-II
	Stereo	STEREO ↔ MONO (Forced mono)

• If the receiving conditions deteriorate, listening will be easier if the mode is set to the **MONO**.

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- If the stereo signal is weak and an automatic switching occurs, then switch to the MONO.
- When receiving a mono sound in the AV mode, connect to the "AUDIO-L" input connector on the panel (front or side). If the mono sound comes out only from left speaker, press the S.Mode button.



Setting the Sleep Timer





You can select a time period of between 30 and 180 minutes after the television automatically switches to Standby mode.

1 Press the **Sleep** button.

<u>Result</u>: The **Sleep timer** menu is displayed.

- If the sleep timer is not yet set, **off** is displayed.
 If the sleep timer is already set, the screen displays the remaining time and then before the television will be placed in standby mode.
- Press the Sleep button repeatedly and cycle through the preset time intervals (30, 60, 90, 120, 150, 180).
 <u>Result</u>: The television automatically switches to standby mode
- **3** To cancel the sleep timer feature, press the **Sleep** button repeatedly and select **off**.

when the timer reaches 0.

Setting and Displaying the Current Time









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You can set the television's clock so that the current time is displayed by pressing the "Display" button. You must also set the time if you wish to use the automatic on or off timers.

When pressing the "I" button (On/Off) on the front of the television, the clock setting will be reset.

1	Press the Menu button. <u>Result</u> : The main menu is displayed.		
2	Press the	▼ or ▲ button to select	t Function.
	<u>Result</u> :	The options available displayed.	e in the Function group are
3	Press the	🕂 button.	
4	Press the ▼ or ▲ button to select Time . Press the		
5	Press the \blacktriangleleft or \blacktriangleright button to move to the hour or minute. Set the hour or minute by pressing the \triangledown or \blacktriangle button.		
6	When you have finished, press the TV button to exit.		ne TV button to exit.
7	То		Press the "Display" button
	display the	e channel information	Once.
	display the	e current time	Twice.
	remove th	ne display	Three times.

Switching the Television On and Off Automatically

group are

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You can set the On/Off timers so that the television will:

- Switch on automatically and tune to the channel of your choice at the time you select
- Switch off automatically at the time you select
- The first step is to set the television's clock (refer to "Setting and Displaying the Current Time" on the previous page).

1	Press the MENU button.		
	Result:	The main menu is displayed.	
2	Press the \triangledown or \blacktriangle button to select Function .		
	<u>Result</u> :	The options available in the Function displayed.	
3	Press the 🚭 button.		

5 Press the $\mathbf{\nabla}$ or \mathbf{A} button to select **Timer**.

6 Press the ◄ or ► button to set **on**

<u>Result</u>: The **On Time** and **Off Time** are displayed.

- 7 Press the ∇ or \blacktriangle button to select **on Time**. Set the time at which you wish the television to be switched on automatically.
 - Press the ◄ or ➤ button to move to the hour or minute.
 Set the hour or minute by pressing the ▼ or ▲ button.
- 8 Press the ▼ or ▲ button to select **off Time**. In the same above, set the time at which you wish the television to be switched off automatically.
 - When leave the television in Standby mode...
 - During Timer Off, the LED (Stand-by & Timer indicator) lights up Red.
 - During Timer On, the LED lights up Orange.
 - When switching the television On during Timer On, the LED lights up Green.

Absent Power Off

When you set the timer "On", your television will eventually be turned off, if you do not operate any controls during the 3 hours after the TV is turned on by timer. This function is available in only the timer "On" mode and will prevent a leakage accident or overheating, caused by your TV left on for a long time due to the timer "On" (when you are away on holiday, for example).









	Time	
Clock		11 : 19
Timer		On
On Time		06 : 00
Off Time		23 : 30
▲▼ Move	▶ Sel.	III Exit

Viewing the Picture In Picture (PIP)





_	-<-	PIP	
Picture			
()	PIP		On
Sound 🤍	TV/Video		TV
3	Prog. No		P03
Channel	Size		Large
Runction			
De la compañía de la			
▲ ▼ Move		♦ Sel.	III Exit





You can display a sub picture within the main picture of TV program or external A/V devices such as VCR or DVD. In this way you can watch TV program or monitor the video input from any connected devices while watching TV or other video input.

1	Press the Menu button.		
	Result: The main menu is displayed.		
2	Press the \blacksquare or \blacktriangle button to select PIP . Press the 🚭 button.		
3	Press the ◀ or ► button again to set on .		
	Result: The options available in the PIP group are displayed.		
4	Press the ▼ or ▲ button to select TV/Video . Find a source of the sub picture by pressing the ◀ or ► button.		
	Result: The sources are displayed in the following order:		
	TV - Extl Video - Ext2 Video - Ext3 Video - Ext4 Video - S-Video.		
5	Press the \triangledown or \blacktriangle button to select Prog.No . If you watching TV program, select the channel that you want to view through the sub picture by pressing the \blacktriangleleft or \triangleright button.		
	When the source of the sub picture (TV/Video) is set to TV, you can select the channel of sub picture.		
6	Press the \forall or \blacktriangle button to select Size . Select a size of the sub picture by pressing the \triangleleft or \triangleright button.		
	Result: The sizes are displayed in the following order:		
	Large - Small - 12 PIP - 3 PIP - Double.		
	12 PIP : You can view up to 12 memorized channels on the sub picture spontaneously.		
	 On the 12 PIP or 3 PIP mode, it is impossible to execute swap and locate. 		
Easy functions of remote control

Buttons	Feature	
PIP ON	Used to activate or deactivate the PIP function directly.	
Scan	Used to scan every memorized channel in order. To stop scanning, press it again.	
Swap	Used to interchange the main picture and the sub picture.	
	When the main picture is in the Video mode and the sub picture is in the TV mode, you might not hear the sound of main picture when pressing the Swap button after changing the sub picture channel. At this time, reselect the channel of main picture.	
Locate	Used to move the sub picture counterclockwise.	



Teletext Feature



Most television channels provide written information services via teletext. Information provided includes:

- Television programme times
- News bulletins and weather forecasts
- Sports results
- Travel information

This information is divided into numbered pages (see diagram).

Part	Contents
А	Selected page number.
В	Broadcasting channel identity.
С	Current page number or search indications.
D	Date and time.
Е	Text.
F	Status information. FASTEXT information.

 \succ

Teletext information is often divided between several pages displayed in sequence, which can be accessed by:

- Entering the page number
- Selecting a title in a list
- Selecting a coloured heading (FASTEXT system)

Displaying the Teletext Information

You can display Teletext information at any time on your television.

For Teletext information to be displayed correctly, channel reception must be stable; otherwise:

- Information may be missing
- Some pages may not be displayed
- 1 Select the channel providing the Teletext service using the P ✓ or P ∧ button.
- 2 Press the **Text/Mix** button to activate the teletext mode. <u>Result</u>: The contents page is displayed. It can be redisplayed at any time by pressing the I (index) button.
- 3 Press the **Text/Mix** button again. <u>Result</u>: The screen will be split into two. This Double Teletext feature lets you view the actual broadcast and teletext information separately on the screen.
- 4 If you wish to display the actual broadcast at the same time as the teletext page, press the **Text/Mix** button again.
- **5** Press the " **TV**" button again to exit from the teletext display.





Selecting Display Options

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When you have displayed a Teletext page, you can select various options to suit your requirements.

To display	Press the
 Hidden text (answers to quiz games, for example) 	(reveal)
The normal screen	E? (reveal) again
A secondary page	🗐 (sub-page)
• The broadcast when searching for a page	(cancel)
The next pageThe previous page	En (page up) 11≣ (page down)
 Double-size letters in the: Upper half of the screen Lower half of the screen 	(size)OnceTwice
Normal screen	Three times

➤ To return to the normal display after using the reveal or size feature, press the "□ TV" button again.

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Selecting a Teletext Page

You can enter the page number directly by pressing the numeric buttons on the remote control.

- 1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.
- 2 If the FASTEXT system is used by the broadcasting company, the different topics covered on a Teletext page are colour-coded and can be selected by pressing the coloured buttons on the remote control.

Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.

- <u>Result</u>: The page is displayed with other colored information that can be selected in the same way.
- **3** To display the previous or next page, press the corresponding coloured button.
- 4 To display the subpage, see the following steps.
 - Press the (sub-page) button.
 <u>Result</u>: The available subpages appear.
 - ◆ Select the required sub-page. Sub-pages can be scrolled by pressing the 11 or En button.
- 5 When you have finished, press the " **TV**" button to return to your normal broadcast.



Connecting to the External Input/Outputs

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 \succ EXT1 is used for the equipment with an RGB output, VCR such as video game devices or video disc players. (2)П 1 DVD Rear of the TV 3 <u>or</u> G €XT 2 արախախախախախախախ ար Decoder / ■ +3 IY/C Video game device a l G→ EXT 1 ∎ IB> ⊡ <u>or</u> EXT 3 (DECODER) 88 **╈**╋╋╋╋╋╋╋ a B Video disc player -C D b ① This end can be fitted with: A SCART connector Satellite receiver An S-Video connector and two audio RCA connectors (L+R); EXT 2 Three RCA connectors (VIDEO + AUDIO-L and R) (4) ② If you have a second VCR and wish to copy cassette tape, connect the source VCR to EXT1 and the target VCR to EXT2 so that you can redirect the signal from EXT1 to EXT2. ③ If you have a decoder, connect the decoder to the VCR and the VCR to the television. ④ When you wish to record a programme, connect the receiver to EXT1 and the VCR to EXT2 so that you can redirect the signal from EXT1 to EXT2.



Whenever you connect an audio or video system to your television, ensure that <u>all</u> elements are switched <u>off</u>.

Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.



Connecting to the S-Video Input (depending on the model)

The S-VIDEO and RCA (AUDIO-L+R) connectors are used for equipment with an S-Video output, such as a camcorder or VCR.



 ${\scriptstyle \textcircled{1}}$ To play pictures and sound, both the S-VIDEO and RCA connectors must be used.

Connecting Additional Speakers

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Viewing Pictures From External Sources

Once you have connected up your various audio and video systems, you can view different sources by selecting the appropriate input.

- 1 Check that all the necessary connections have been made.
- 2 Switch your television on, then press the **VIDEO** button repeatedly.
 - Result: The input sources are displayed in the following order:

TV - EXT1 - EXT2 - EXT3 - EXT4 - S-Video.

Depending on the source selected, the pictures may appear automatically.

To watch television programmes again, press the **TV** button and select the number of the channel required.



Redirecting an Input to the External Output

ENG

D _{Picture}	Functi	on
Sound	Language Time	► ►
Channel	Convergence Plug & Play)
Function	AV Setup Demonstration)
D PIP		
▲ ▼ Move	⊕ Enter	III Exit

AV Setup			
EXT1	······	TV	
EXT2	·····	Monitor Out	
EXT3		TV	
▲▼ Move		Sel.	III Exit

Your television enables you to choose which audio/video signals are output to the external connector.

1	Press the	Menu button.
	Result:	The main menu is displayed.
2	Press the	▼ or ▲ button to select Function.
	<u>Result</u> :	The options available in the Function group are displayed.
3	Press the	العالم button.
4	Press the button.	▼ or ▲ button to select AV Setup. Press the →
	<u>Result</u> :	The options available in the AV Setup group are displayed.
5	Select the or ▲ butto	required output (EXT1, EXT2 or EXT3) by pressing the ▼ n.
6	Select the ▶ button.	source to be directed to the output by pressing the \blacktriangleleft or
		1, EXT2 : Default 3 : Variable

This TV's remote control can operate almost any VCR, Cable box, or DVD, in addition to controlling the TV.



The remote control might not be compatible with the TV manufactured by another company.

- 1 Turn off your VCR, Cable box, or DVD.
- 2 Press the appropriate button among the component selection buttons to activate another component (TV, VCR, Cable, DVD).

Example: If you want to program the remote control to operate your VCR, press the VCR button on the remote control.

- 3 Press the SET button.
- 4 Use the numeric buttons to enter the code by manufacturer. Each code must be three digits long.

Example: To enter the code "6", press 0, 0, and 6. To enter the code "76", press 0, 7, and 6.

- See the remote control code tables to find the appropriate code for your particular component. If more than one code is listed, try each one separately until you find the one that works.
- 5 Press the **Power** (()) button on the remote control. The component you select should turn on. If it turns on, your remote control is now set correctly.
 - If it does not turn on, repeat steps above, but try one of the other codes listed for the brand of particular yours. If no other codes are listed, try each code, "000" through "089" for VCR/DVD and "000" through "077" for Cable box.
- 6 Once your remote control is set up, press the **SET** button any time you want to use the remote to operate your Cable box, VCR or DVD.
 - When your remote control is in the VCR, Cable, or DVD mode, the volume buttons still control your TV's volume.
 - When your remote control is in the TV or Cable mode, the VCR or DVD control buttons (PLAY, PAUSE, etc.) still operate your VCR or DVD.



TV Remote Control Codes

A-Mark	88, 37, 90	MTC	26, 15, 6, 49, 93, 20, 8, 75
Admiral	55	NEC	25, 75, 20, 8, 6, 5, 1, 1
Akai	20, 6	Nikei	50
Anam	37, 47, 64, 41, 50	Onking	50
Aoc	6, 37, 20, 56	Onwa	50
Bell & Howell	67	Optonica	69
Broksonic	68	Panasonic	64, 72, 58, 82
Candle	6, 12, 20, 46, 50	Penney	61, 6, 49, 66, 18, 90, 50, 77, 25
Centrion	45	Philco	1, 8, 88, 61, 6, 90, 50, 12, 98, 92, 100, 82, 20
Citizen	20, 46, 6, 50, 12, 90, 45, 9, 10	Philips	88, 1, 61, 6, 90, 12, 98, 92, 82, 20, 5, 57
Classic	50	Pioneer	65, 26
Concerto	6	Portland	88, 6, 90
Contec	50, 78, 83, 81	Proton	1, 31, 6, 90, 77, 78
Coronado	88, 90	Quasar	72, 58
Craig	7, 49, 50	Radio Shack	50, 92, 25, 90
Croslex	30	RCA	61, 6, 71, 66, 87, 20, 90, 1, 62
Crown	50	Realistic	8, 49, 50, 25
Curtis-Mathes	1, 6, 20, 90, 17, 31	Sampo	1, 20, 90, 6, 19, 26, 49
CXC	50	Samsung	88, 0, 61, 28, 44, 29, 81, 48, 49, 90, 92, 51
Daewoo	88, 1, 93, 31, 32, 33, 38, 52, 2, 3, 92, 34,	Sanyo	89, 80, 62, 78, 13, 14
	46, 50, 35, 36, 4, 5, 6, 8	Scott	1, 50, 19, 90, 6
Daytron	1, 6, 20	Sears	88, 61, 6, 8, 90, 91, 89, 80, 15, 19
Dynasty	50	Sharp	88, 90, 85, 24, 25, 69
Emerson	88, 1, 90, 50, 83, 19, 30, 81, 20, 6, 25, 55,	Signature	84, 6, 114
	23, 36	Sony	77, 74
Fisher	8, 80, 61, 15, 125	Soundesign	1, 50, 12, 6, 19
Funai	50, 19, 69, 6	Spectricon	37
General Electric	1, 61, 72, 50, 58, 17, 18, 6, 49, 19, 90	SSS	6, 50
Goldstar	88, 27, 1, 37, 10, 11, 42, 90, 39, 40, 92, 99	Sylvania	1, 61, 6, 12, 98, 92, 20, 100, 82
Hitachi	88, 6, 90, 71, 77, 70, 21, 22, 23, 25	Symphonic	2, 6, 90, 12, 20
Infinity	82	Tatung	72, 69
JBL	82	Techwood	6, 59
JC Penney	91, 92, 17, 20	Teknika	88, 46, 6, 90, 50, 12, 19, 94, 84
JVC	60, 16, 128, 129	Telefunken	96, 97
Kloss	92	Telerent	84
KMC	88, 90, 13	ТМК	1, 6, 90
KTV	88, 90, 50, 61, 20		

Admiral	15, 88	MTC	16, 24
Aiwa	24	Multitech	16, 24, 40, 41
Akai	26, 31, 32	NEC	11, 23, 25, 39, 55, 70, 73
Audio Dynamics	22, 25	Optimus	15
Bell & Howell	11	Panasonic	17, 62, 84, 86
Broksonic	19	Pentax	14, 44
Candle	16, 18 ,22, 54, 55, 61	Pentex Research+	55
Canon	17, 62	Philco	17, 38, 62, 65
Citizen	16, 18, 22, 54, 55, 61	Philips	17
Colortyme	23	Pioneer	14, 25, 42, 59
Craig	16, 21	Portland	53, 54, 61
Curtis-Mathes	9, 16, 17, 23, 24, 55, 62, 73, 76	Proscan	9
Daewoo	3, 4, 5, 6, 7, 8, 22, 54, 85	Quartz	11
DB	23, 25	Quasar	17, 53
Dimensia	9	Radio Shack/Realistic	11, 15, 17, 18, 21, 24, 28, 36, 52, 62
Dynatech	24	RCA	9, 14, 16, 17, 37, 44, 46, 63, 78
Electrohome	36	Samsung	0, 16, 22, 31, 41, 51
Emerson	17, 18, 19, 22, 24, 29, 32, 36, 43, 50, 51,	Sansui	25
	56, 58, 66, 71, 74, 76, 77, 79	Sanyo	11, 21
Fisher	11, 21, 27, 28, 52, 57, 67	Scott	22, 50, 58, 77
Funai	24	Sears	11, 14, 18, 21, 27, 28, 44, 52, 57
General Electric	9, 16, 17, 41, 62	Sharp	15, 36, 48, 54
Go Video	16	Shintom	26, 35, 40, 64
Goldstar	18, 23, 55, 69	Signature	24
Harman Kardon	23	Sony	26, 35, 47
Hitachi	14, 24, 44, 45	Sylvania	17, 24, 38, 62, 65
Instant Replay	17	Symphonic	24
JC Penney	11, 14, 16, 17, 23, 25, 39, 44, 60, 62	Tandy	11, 24
JCL	11, 17, 23, 25, 39, 55	Tatung	39
Kenwood	11, 23, 25, 39, 55	Teac	24, 39, 78
KLH	82	Technics	17
LG	1, 2, 7	Teknika	17, 18, 24, 30
Lloyd	24	ТМК	76
Logik	40	Toshiba	14, 22, 28, 57, 58
LXI	24	Toshiko	18
Magnavox	17, 38, 62, 65	Totevision	16,18
Marantz	11, 17, 23, 25, 38, 39, 55, 70		

Cable Box (CATV)	Remote Control	Codes
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Anvision	15, 16	Pioneer	26, 28, 52
Cable Star	15, 16	Randtek	15, 16
DaeHan	5	RCA	8, 35, 74
DaeRyung	3	Regal	11, 20, 21
Dongkuk	4	Regency	10, 41
Eagle	15, 16	SAEWOO	7
Eastern International	20	Samsung	0, 11, 30, 52, 71, 72
General Instrument	54	Signature	54
GI	12, 13, 23, 31, 32, 33, 38, 44, 75, 76, 77	Spruce	35
Hamlim	11, 12, 20, 21, 42, 56	Starcom	54
Hitachi	45, 51, 54	Stargate2000	66
Jerrold	12, 13, 23, 31, 32, 33, 38, 44, 54, 70, 73	Sylvania	19, 67
LG	6	TaePyungYang	2
Macom	45, 51	Texscan	19, 67
Magnavox	15, 16, 27, 29, 34, 36, 37, 40, 41, 48, 49	Tocom	25, 29, 57, 58, 63
Nawoo	1	Unika	39, 40, 49
NSC	17	Universal	59, 60
Oak	24, 46	Viewstar	15, 16, 27, 29, 34, 36, 37, 40, 41, 48, 49
Osk Sigma	24	Warner Amex	52
Panasonic	11, 35, 47, 69	Zenith	22, 50, 65, 69
Philips	15, 16, 27, 29, 34, 36, 37, 40, 41, 48, 49		

DVD Remote Control Codes

Philips	7	ProScan	8
Sony	4	RCA	8
Samsung	0	Toshiba	2
Panasonic	6	Sharp	5
LG	1	CurtisMathes	9
JVC	3		

SCART Connector Wiring (EXT1, EXT2 or EXT3)

Pin	Signal
1	Audio output R
2	Audio input R
3	Audio output L
4	Audio chassis return
5	Video chassis return (RGB blue)
6	Audio input L
7	RGB blue input
8	Switching voltage
9	Video chassis return (RGB green)
10	AV-Link (Ext 1)
11	RGB green input
12	-
13	Video chassis return (RGB red)
14	-
15	RGB red input
16	Blanking signal (RGB switching)
17	Video chassis return
18	Blanking signal ground
19	Video output
20	Video input
21	Screening/chassis return

If you wish to connect other equipment via the SCART connectors on your television, contact your dealer or a qualified technician to wire the A/V cable as illustrated below.

Pins 5, 7, 9, 11, 13, 15 and 16 are used for RGB processing and are only wired on the EXT1 or EXT3 connector. Before contacting Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture	 Check that the mains lead has been connected to a wall socket. Check that you have pressed the "I" button (On/Off) and the Power (()) button. Check the picture contrast and brightness settings. Check the volume.
Normal picture but no sound	 Check the volume. Check whether the volume Mute button on the remote control has been pressed.
No picture or black and white picture	 Adjust the colour settings. Check that the broadcast system selected is correct.
Sound and picture interference	 Try to identify the electrical appliance that is affecting the television, then move it further away. Plug your television into a different mains socket.
Blurred or snowy picture, distorted sound	 Check the direction, location and connections of your aerial. This interference is often occurs to the use of an indoor aerial.
Remote control malfunctions	 Replace the remote control batteries. Clean the upper edge of the remote control (transmission window). Check the battery terminals.

Wiring the Mains Power Supply Plug (UK Only)

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BSI1362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative to cut off the plug, remove the fuse and then safely dispose of the plug. Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK. The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

Memo

Memo

ENG

- AFTER SALES SERVICE

 Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.



BP68-00070A-01 (ENG)