

COLOUR TELEVISION

Owner's Instructions

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



Register your product at www.samsung.com/global/register

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Symbols



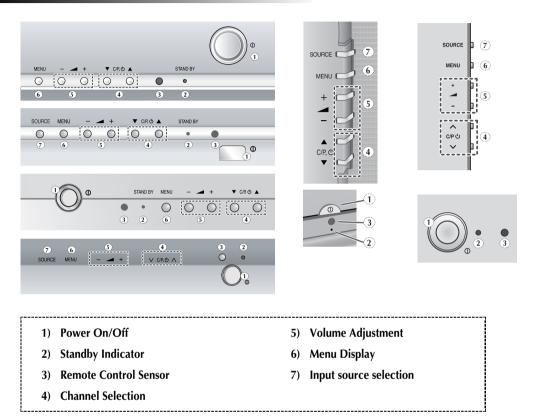
(**F** Important

 \succ Note

View of Your Television (depending on the model)

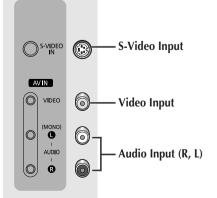
The actual configuration on your TV may be different, depending on your model.

Control Panels

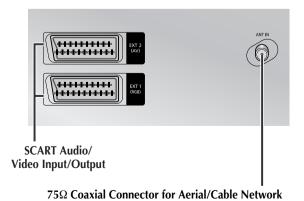


Connection Panels



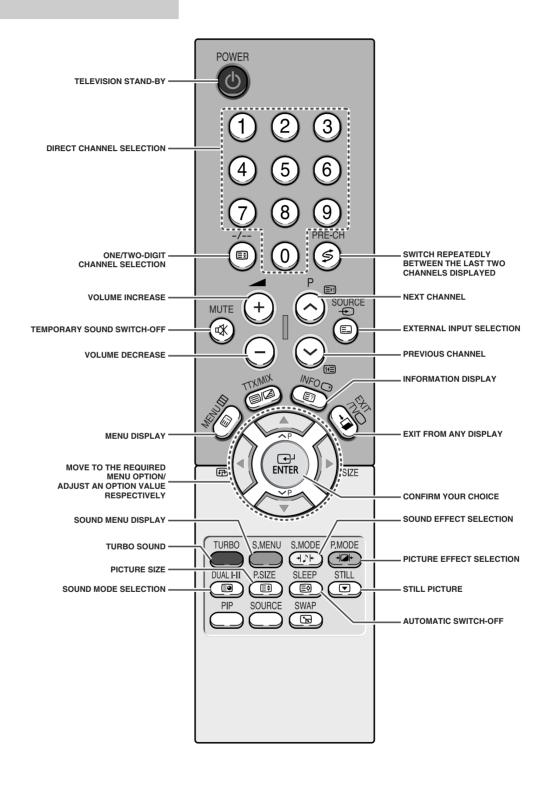


Rear of the TV



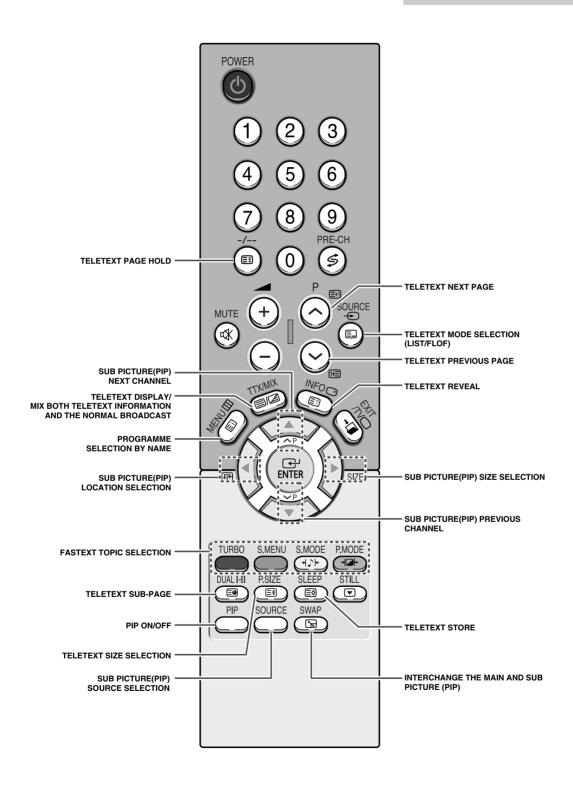
English - 5

Infrared Remote Control



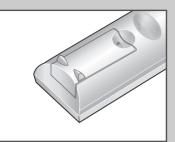
> The performance of the remote control may be affected by bright light.

Infrared Remote Control (continued)



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Inserting the Batteries in the Remote Control

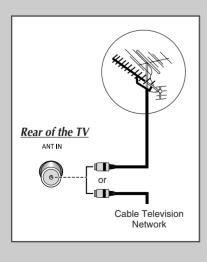




You must insert or replace the batteries in the remote control when you:

- Purchase the television
- Find that the remote control is no longer operating correctly
- 2 Insert two R03, UM4, "AAA" 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 13
- "Storing Channels Manually" on page 15

Switching Your Television On and Off

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

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.

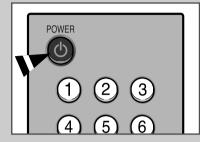
2 Press the "①" button (On/Off) on the front of the television.

<u>Result</u>: 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 re-selected automatically.

- If you have not yet stored any channels, No clear picture appears. Refer to "Storing Channels Automatically" on page 13 or "Storing Channels Manually" on page 15.
- 4 To switch your television off, press the "①" button (On/Off) again.



Placing Your Television in Standby Mode

Your television can be placed in Standby mode, in order to reduce:

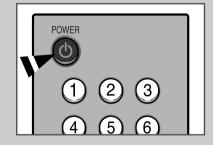
- Power consumption
- Wear of the cathode ray tube

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.

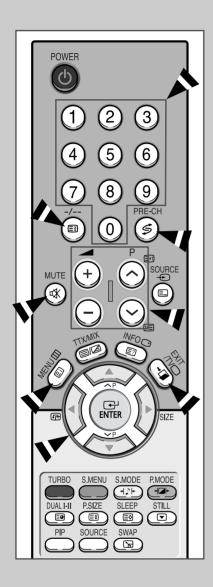
<u>Result</u>: The screen is turned off and the Standby indicator on the front of the television lights up in red.

- 2 To switch the television back on, simply press the **POWER** (**(**)) button again.
 - You can also switch on by pressing the TV (), P or or, or numeric buttons.
 - 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 "①" button (On/Off) on the front of the television. It is best to unplug the set from the mains and aerial.



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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
\bigcirc	Used to display the next stored channel.	-
\odot	Used to display the previous stored channel.	-
(0) to (9)	Used to display the correspo	onding channels.
-/	Used to select a channel nur Press this button, and the " Enter the two-digit channel n	" symbol is displayed.
PRE-CH	Press the PRE-CH button. T channel viewed.	The TV will switch to the last
	tune to one channel, then u	two channels that are far apart, se the number button to select the PRE-CH button to quickly
+	Used to increase the volume.	-
Θ	Used to decrease the volume.	-
MUTE ଐ	temporarily. k on, press this button again, or putton.	
MENU	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
	-	 Used to: ◆ Display a submenu containing selections for the current menu option ◆ Increase/decrease a menu option value
ENTER	-	Used to confirm your choice.
EXIT ∗∏	-	Used to exit from the menu system and return to normal viewing directly.
TV D	Used to switch the television on when it is in Standby mode.	

Plug & Play Feature

When the television is initially powered on, three basic customer settings proceed automatically and subsequently: setting the language, channel and clock.

- 1 If the television is in Standby mode, press the **POWER** (**(()**) button on the remote control.
 - <u>Result</u>: 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** (IIII) button to enter the language.
 - Result: The message Check antenna input. is displayed.

\succ	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 ◄ or ► button.

- 4 Select your country by pressing the ◄ or ➤ button. To search the channels, select **Search** by pressing the ▲ or ▼ button, and then press the ◄ or ➤ button. Press the **MENU** (IIII) button to stop the search.
 - Result: The **Time** menu is displayed with **Clock** selected.
 - Refer to "Storing Channels Automatically" on page 13.
- 5 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 31.

6 When you have finished, press the **MENU** (IIII) button.

<u>Result</u>: The message **Enjoy your watching.** is displayed, and then the channel which has been stored will be activated.

7 If you want to reset this feature...

- 1 Press the MENU (IIII) button.
- 2 Press the ▲ or ▼ button to select **Setup**, and then press the **ENTER** () button.

Result: The Plug & Play is selected.

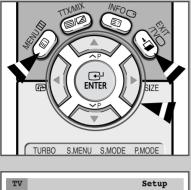
3 Press the ENTER (-) button again.

<u>Result</u>: This feature starts with the message **Plug & Play** is displayed.

Plug & Play	
TV Language	_
English Srpski Deutsch Hrvatski Français Română Nederland Magyar Español Polski Italiano Русский Svenska Български Português Тürkçe Еλληνικά Norsk Čeština Dansk	
медегіала Magyar Español Polski Italiano Русский	
Soundary Polski Soundary Polski Svenska Benrapcku Português Türkçe EXAyviká Norsk Čeština Ponch	
Eλληνικά Norsk Čeština Dansk	
¢T¢ Suomi ♦ Move Ш Skip	
Check antenna input.	
♦ Move III Skip	
TV Auto Store	
U Council (Delgium	
Search : -/+	
()	
×	
999	
♦ Move ◀▶ Adjust III Skip	
TV Time	
Clock :	1
Sleep Timer : Off On Timer : Of	£
Off Timer : Off	
On Timer Volume : 1 On Timer Channel: 1	0
969	
♦ Move ◀▶ Adjust III Skip	
Enjoy your watching.	
TV Setup	
Plug & Play Language : English	
Time	
Blue Screen : Off Melody : On	
Demonstration	
♥I♥ ◆ Move	n

<u>Result</u>: The **Auto Store** menu is displayed with **Country** is selected.

Viewing the Demonstration





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

1	Press the MENU (IIII) button.			
	Result: The main menu is displayed.			
2	Press the ▲ or ▼ button to select Setup .			
	Result: The options available in the Setup group are displayed.			
3	Press the ENTER () button.			
4	Press the \blacktriangle or \blacktriangledown button to select Demonstration .			
5	Press the ENTER () button.			
	Result: Each of the menu options is displayed in turn.			
	When you wish to exit from the demonstration, press the EXIT (→□) button on the remote control.			

Choosing Your Language





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 (IIII) button.				
	Result: The main menu is displayed.				
2	Press the ▲ or ▼ button to select Setup.				
	Result: The options available in the Setup group are displayed.				
3	Press the ENTER () button.				
4	Press the ▲ or ▼ button to select Language.				
5	Press the ENTER () button.				
	Result: The options available in the Language group are displayed.				
6	Select the appropriate language by pressing the \blacktriangle or \blacktriangledown button repeatedly.				

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Storing Channels Automatically

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.

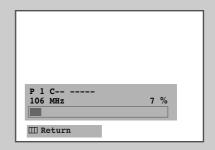
1	Press the	MENU (IIII) button.			
	Result:	The main menu is displayed.			
2	Press the ▲ or ▼ button to select Channel .				
	<u>Result</u> :	The options available in the Channel group are displayed.			
3	Press the ENTER () button.				
	Result:	The Auto Store selected.			
4	Press the ENTER (⊡) button again.				
	<u>Result</u> :	The options available in the Auto Store group are displayed with Country is selected.			
5	Select your country by pressing the \triangleleft or \blacktriangleright button. The countries are displayed in the following order: Belgium - Germany - Spain - France - Italy - Netherlands - Sweden - Switzerland - United Kingdom - Others - Eastern Europe				
6	Press the ▲ or ▼ button to select Search .				
7	Press the	✓ or ► button to start the search.			

- <u>Result</u>: The horizontal bar is displayed, and then 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** (IIII) button.
- 8 When searching and storing are complete, the **sort** menu is displayed.
 - To sort the stored channels into the desired numerical order, go to Step 6 of the "Sorting the Stored Channels" procedure on page 14.
 - ◆ To exit from the channel store function without sorting the channels, press the **MENU** (□□) button repeatedly until the menus disappear.
- **9** When the channels have been stored, you can:
 - Sort them in the order required (refer to page 14)
 - Skip Unwanted Channels (refer to page 17)
 - Assign a name to the stored channels (refer to page 18)
 - Fine tune channel reception if necessary (refer to page 19)
 - Activate the Digital Noise Reduction feature (refer to page 24)





TV		Au	to Store
	Country	: Belgiu	m
	Search	∢ -/+	•
X			
ļi ļ			
♦ Mo	ve 🔶	Search	🖽 Return



TV							So	rt
	From			•	P	1		🕨
	То							
	Store							
X								
999								
\$ М	ove	♠	Adjus	t			Ret	turn

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 (IIII) button.				
	Result:	The main menu is displayed.			
2	Press the ▲ or ▼ button to select Channe1.				
	<u>Result</u> :	The options available in the Channel group are displayed.			
3	Press the ENTER () button.				
4	Press the ▲ or ▼ button to select Sort .				
5	Press the	ENTER (础) button.			
	<u>Result</u> :	The options available in the Sort group are displayed with From selected.			
6	Select the channel number that you wish to change by pressing the ◀ or ► button repeatedly.				
7	Press the \blacktriangle or \checkmark button to select To . Select the new channel number which you wish to identify by pressing the \triangleleft or \triangleright button repeatedly.				
		can also select the channel number directly by pressing numeric buttons (0~9).			
8	Press the \blacktriangle or \checkmark button to select Store . Select OK to confirm the exchange of channel numbers by pressing the \blacktriangleleft or \triangleright button.				
	<u>Result</u> :	The selected channel is exchanged with the one previously stored to the chosen number.			
9	For all the channels to move to the required channel numbers, repeat steps 6 to 8 after selecting the From by pressing the \blacktriangle or \blacksquare button.				

Storing Channels Manually

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 **MENU** (IIII) button.

<u>Result</u>: The main menu is displayed.

2 Press the \blacktriangle or \blacktriangledown button to select **Channel**.

<u>Result</u>: The options available in the **Channel** group are displayed.

- **3** Press the **ENTER** (+) button.
- 4 Press the ▲ or ▼ button to select Manual Store.
- 5 Press the ENTER () button.

<u>Result</u>: The options available in the **Manual Store** group are displayed with **Programme** is selected.

- 6 To assign a programme number to a channel, press the ◄ or ► button.
- 7 Press the ▲ or ▼ button to select **colour system**. Select the broadcasting standard required by pressing the ◄ or ► button repeatedly.

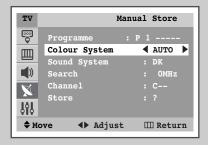
Result: The colour standards are displayed in the following order: AUTO - PAL - SECAM - NT4.43

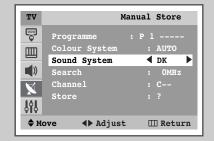
8 Press the ▲ or ▼ button to select **Sound System**. Select the sound standard required by pressing the ◄ or ► button repeatedly.

Result: The sound standards are displayed in the following order: BG - DK - I - L

TV		Channel
	Auto Store	►
Ш	Manual Store	
	Add/Delete	
	Sort	
\mathbf{X}	Name	
	▼ More	
619		
♦ Mo	ove 🕑 Enter	III Return







Storing Channels Manually (continued)

TV	Man	ual Store
	Programme :	P 1
回	Colour System	: AUTO
	Sound System	: DK
	Search	: OMHz
\mathbf{N}	Channel	€ C1 ►
ŶŶ	Store	: ?
\$ A	djust ◀▶ Move	🖽 Return

TV	Manı	ual Store
	Programme :	
Ш	Colour System	: AUTO
	Sound System Search	: DK
	Channel	: C 1
	Store	
010		
♠ Mo	ove I Search	🎹 Return

TV	Manu	al Store
	Programme :	P 1
回	Colour System	: AUTO
	Sound System	: DK
	Search	: 46MHz
M	Channel	: C 1
	Store	ок 🕨
- ţţţ		
\$ М	ove 📣 Adjust	🖽 Return

- **9** If you know the number of the channel to be stored, see the following steps.
 - Press the \blacktriangle or \blacktriangledown 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 \blacktriangle or \triangledown button to select the required number.
 - You can also select the channel number directly by pressing the numeric buttons (0~9).
 - If there is on sound or abnormal sound, re-select the sound system required.
- 10 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.
- 11 To store the channel and associated programme number, select **store** by pressing the ▲ or ▼ button. Press the ◄ or ► button to select **oκ**.
- 12 Repeat Steps 9 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.

Skipping Unwanted Channels

You can exclude the channels you have chosen from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed.

All of the channels that you do not specifically choose to skip are displayed during scanning.

1	Press the MENU (IIII) button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select Channel .
	Result: The options available in the Channel group are displayed.
3	Press the ENTER (+) button.
4	Press the ▲ or ▼ button to select Add/Delete.
5	Press the ENTER () button.
	Result: The stored channels are displayed.
6	Press the ▲ or ▼ button to select the channel to add or erase. If necessary, select Added or Deleted by pressing the ◀ or ► button.
7	Repeat Step 6 for each channel to be added or erased.





TV				Ad	ld/Dele	te
	P	1	•	Delete	ed	►
m				Added		
				Added		
				Added		
X						
869						
\$ M	ove		∢ ▶ Adj	just	III Ret	urn

Assigning Names to Channels



TV			Name
	P 1	◀	►
回			
	Р3 Р4		
	F 4	:	
ļļļ			
\$ М	ove	♦ ▶ Adjust	🖽 Return

TV		Name
P 1	▲ A	Þ
P 2 P 3		
P 3		
X		
898		
Adjust	♦ ▶Move	🖽 Return

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 I	MENU (IIII) button.
	Result:	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 I	ENTER (근) button.
4	Press the	▲ or ▼ button to select Name.
5	Press the l	ENTER (⊡) button.
	Result:	The current channels are displayed.
6		ry, select the channel to be assigned to a new name by le \blacktriangle or \blacktriangledown button.
7	Press the	✓ or ► button.
8	or a symbo	▲ or ▼ button to select a letter (A~Z), a number (0~9) of (-, space). Move on to the previous or next letter by ne ◄ or ► button.
9	Repeat Ste name.	eps ${f 6}$ to ${f 8}$ for each channel to be assigned to a new

Fine Tuning Channel Reception

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, you may have to fine tune the channel manually.

1	Press the MENU (IIII) button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select Channel .
	Result: The options available in the Channel group are displayed.
3	Press the ENTER (C) button.
4	Press the \blacktriangle or \blacktriangledown button to select Fine Tune .
5	Press the ENTER () button.
6	To obtain a sharp and clear picture and good sound quality, press the ◀ or ► button.
	Result:The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the \blacktriangleleft or \blacktriangleright button.
7	To store the fine tuning setting in the TV's memory, press the ENTER () button.
	Result: Channel indicator turns into Red.
8	To erase adjusted picture or sound, select Reset by pressing the ▲ or ▼ button. Press the ENTER (⊡) button.

<u>Result</u>: Channel indicator returns to its original colour.

Depending on the model



ine Tune	e P	1
	Reset	1
	€ Sav	
Move		

Using the LNA (Low Noise Amplifier) Feature (depending on the model)

TV		Channel
	🔺 More	
	Fine Tune	
	LNA	< On 🕨
X		
ļ ļļ		
\$ Мо	ove 📣 Adjust	III Return

This function is very useful in the situation that the TV is used in weak signal. LNA amplifies the TV signal in the weak signal area; a low-noise preamplifier boosts the incoming signal. This feature is working only weak in signal condition, and this is memorized on the current channel, additionally.

1	Press the MENU (IIII) button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select Channel .
	Result: The options available in the Channel group are displayed.
3	Press the ENTER () button.
4	Press the \blacktriangle or \blacktriangledown button to select LNA .
5	To activate this feature, select \mathbf{on} by pressing the \blacktriangleleft or \blacktriangleright button.

Setting the LNA option to "On" may produce worse picture quality due to the current channel's signal condition. Hence, apply LNA On/Off selectively according to the picture quality that is currently displayed.

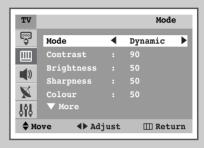
Changing the Picture Standard

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

1	Press the	MENU ([[]]) button.	
	Result:	The main menu is displayed.	
2	Press the	\blacktriangle or \blacksquare button to select Picture .	
	<u>Result</u> :	The options available in the Picture group are displayed.	
3	Press the	ENTER () button.	
	Result:	The Mode is selected.	
4		Select the required picture mode by pressing the ◄ or ► button repeatedly.	
	Result:	The following picture mode are available:	
		Dynamic – Standard – Movie – Custom	

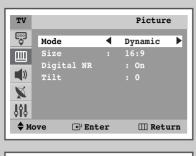
You can also set these options simply by pressing the P.MODE (+2+; Picture Mode) button.

TV			Pictur	e
••••	Mode	•	Dynamic	►
圓	Size		16:9	
	Digit	al NR	: On	
	Tilt			
X				
999				
♠ Mo	ove	🕂 Enter	III Ret	urn

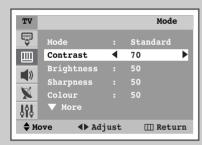


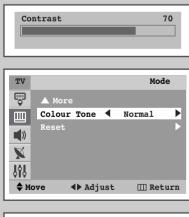


Customizing the Picture Settings



TV			Mode	;
	Mode	◄	Standard	►
回	Contrast		70	
	Brightness		50	
	Sharpness		50	
X	Colour		50	
ļģ	▼ More			
\$ М	ove 📣 Adj	ust	🎹 Retu	rn





TV		Mode
e	🔺 More	
Ш	Colour Tone :	Normal
N	Reset	•
X		
999		
🔷 Мо	ove 📣 Adjust	: 🛄 Return

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

1	_	
	Press the	MENU (IIII) button.
	Result:	The main menu is displayed.
2	Press the	▲ or ▼ button to select Picture .
	<u>Result</u> :	The options available in the Picture group are displayed.
3	Press the	ENTER () button.
	Result:	The Mode is selected.
4	Select the repeated	e required picture mode by pressing the \blacktriangleleft or \blacktriangleright button y.
	Result:	The following picture mode are available:
		Dynamic – Standard – Movie – Custom
5		\blacktriangle or \checkmark button to select the option (Contrast,
	adjusted.	ess, Sharpness, Colour, or Tint-NTSC only) to be Press the ◀ or ► button. These options are for each usted (Dynamic, Standard, Movie, or Custom).
	adjusted.	Press the ◀ or ▶ button. These options are for each
6	adjusted. mode adj <u>Result</u> :	Press the ◀ or ► button. These options are for each usted (Dynamic , Standard , Movie , or Custom). The horizontal bar is displayed. Press the ◀ or ►
6	adjusted. mode adj <u>Result</u> :	Press the ◀ or ► button. These options are for each usted (Dynamic , Standard , Movie , or Custom). The horizontal bar is displayed. Press the ◀ or ► button until you reach the optimal setting.
6	adjusted. mode adj <u>Result</u> : Press the <u>Result</u> : Press the	Press the ◀ or ► button. These options are for each usted (Dynamic, Standard, Movie, or Custom). The horizontal bar is displayed. Press the ◀ or ► button until you reach the optimal setting. MENU ([]]) button.
	adjusted. mode adj <u>Result</u> : Press the <u>Result</u> : Press the	 Press the ◄ or ➤ button. These options are for each usted (Dynamic, Standard, Movie, or Custom). The horizontal bar is displayed. Press the ◄ or ➤ button until you reach the optimal setting. MENU (□□) button. The available options are displayed again. ▲ or ▼ button to select Colour Tone. Select the
	adjusted. mode adj <u>Result</u> : Press the <u>Result</u> : Press the required of	Press the ◀ or ▶ button. These options are for each usted (Dynamic, Standard, Movie, or Custom). The horizontal bar is displayed. Press the ◀ or ▶ button until you reach the optimal setting. MENU ([[]]) button. The available options are displayed again. ♠ or ♥ button to select Colour Tone. Select the option by pressing the ◀ or ▶ button repeatdly.
	adjusted. mode adj <u>Result</u> : Press the <u>Result</u> : Press the required of <u>Result</u> : To return ▲ or ▼ b The reset	Press the ◀ or ➤ button. These options are for each usted (Dynamic, Standard, Movie, or Custom). The horizontal bar is displayed. Press the ◀ or ➤ button until you reach the optimal setting. MENU ([[[]]) button. The available options are displayed again. ▲ or ▼ button to select Colour Tone. Select the option by pressing the ◀ or ➤ button repeatdly. The following colour tones are available:

The television has an "automatic degaussing" system that is activated if magnetic interference is present. To degauss the television screen, switch power off by pressing the "①" (On/Off) button on the front panel. (Refer to "Automatic Degaussing to Remove Colour Patches" on page 45.)

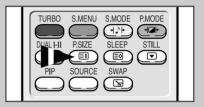
Selecting the Picture Size (depending on the model)

You can select the picture size which best corresponds to your viewing requirements simply by pressing the "P.SIZE ()" button. Depending on the model, the following picture sizes are available:

- ♦ Normal, Zoom1, Zoom2, 16:9
- ♦ 16:9, Panorama, Zoom1, Zoom2, 4:3, Auto Wide
- Lifting is available in the zoom1 or zoom2 mode by pressing the ▲ or ▼ button.

1	Press the	MENU (IIII) button.	
	<u>Result</u> :	The main menu is displayed.	
2	Press the	▲ or ▼ button to select Picture .	
	<u>Result</u> :	The options available in the Picture group are displayed.	
3	Press the	Press the ENTER (+) button.	
4	Press the ▲ or ▼ button to select Size .		
5	Press the	\blacktriangleleft or \blacktriangleright button to select the picture size.	

TV			Pictur	е
	Mode Size	:	Dynamic	
	Digital	NR	16:9 : On	
	Tilt			
191				
♦ Mo	ve 🜗	Adjust	III Ret	urn



Selecting the Digital NR

TV			1	Pictur	e
••••	Mode		Dynai	mic	
Ш	Size	:	16:9		
	Digita	1 NR	•	On	
	Tilt				
X					
ļi ļ					
\$ м	ove	∢⊳ Adjus	t	III Ret	urn

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.

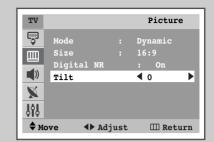
1	Press the MENU (IIII) button.	
	Result: The main menu is displayed.	
2	Press the ▲ or ▼ button to select Picture .	
	Result: The options available in the Picture group are displayed.	
3	Press the ENTER () button.	
4	Press the \blacktriangle or \blacksquare button to select Digital NR .	
5	To activate this feature, select \mathbf{On} by pressing the \blacktriangleleft or \blacktriangleright button.	

Using the Tilt Control Feature

If you find that the picture received is slightly tilted to one side, you can adjust the tilt setting.

1	Press the	MENU (IIII) button.	
	Result:	The main menu is displayed.	
2	Press the	▲ or ▼ button to select Picture .	
	<u>Result</u> :	The options available in the Picture group are displayed.	
3	Press the	Press the ENTER () button.	
4	Press the ▲ or ▼ button to select Tilt .		
5	Press the	\blacktriangleleft or \blacktriangleright button to reach the required setting (-7 to +7).	

Depending on the model



Setting the Blue Screen

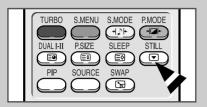
If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".

1	Press the	MENU (IIII) button.	
	Result:	The main menu is displayed.	
2	Press the	▲ or ▼ button to select Setup .	
	<u>Result</u> :	The options available in the Setup group are displayed.	
3	Press the	Press the ENTER () button.	
4	Press the ▲ or ▼ button to select Blue Screen .		
5	To activat	e this feature, select \mathbf{on} by pressing the \blacktriangleleft or \blacktriangleright button.	



Freezing the Current Picture

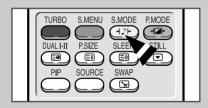


You can freeze the picture when watching a television programme simply by pressing the "STILL ()" button.

 \succ To return to normal viewing, press this button again.

Changing the Sound Standard

TV		Sound
	Mode	
	Equalizer	▶
	Auto Volume	: Off
	SRS WOW	: Off
X	Turbo Sound	: Off
191	Pseudo Stereo	: Off
♦ Mo	ove () Adjust	🖽 Return



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

1	Press the <u>Result</u> :	MENU (Ⅲ) button. The main menu is displayed.
2		▲ or ▼ button to select Sound .
	<u>Result</u> :	The options available in the Sound group are displayed.
3	Press the	ENTER (⊡) 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: Standard - Music - Movie - Speech - Custom

 \succ You can also set these options simply by pressing the **S.MODE** (+)+; Sound Mode) button.

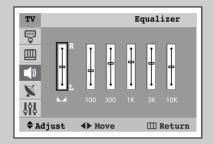
Adjusting the Sound Settings

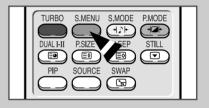
The sound settings can be adjusted to suit your personal preferences.

1	Press the MENU (IIII) button.	
	Result: The main menu is displayed.	
2	Press the \blacktriangle or \triangledown button to select Sound .	
	Result: The options available in the sound group are displayed.	
3	Press the ENTER (+) button.	
4	Press the ▲ or ▼ button to select Equalizer .	
5	Press the ENTER () button.	
	Result: The options available in the Equalizer group are displayed.	
	You can also display this group simply by pressing the S.MENU button.	
6	Select the option to be adjusted by pressing the \blacktriangleleft or \triangleright button. Press the \blacktriangle or \triangledown button to reach the required setting.	

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

TV			Sc	ound
	Mode		: Cust	om
	Equali	zer		►
	Auto Vo	olume		Off
	SRS WO			Off
X	Turbo S	Sound		Off
A	Pseudo	Stereo		Off
ļ ļļ				
\$ M	ove (🕂 Enter	III F	eturn









TV		Sound
	Mode Equalizer	: Custom
l N N	Auto Volume SRS WOW Turbo Sound	: Off : Off ◀ On ▶
► 	Pseudo Stereo	: Off
♦ Move ◀▶ Adjust III Retur		🖽 Return

TV		Sound
••••	Mode	: Custom
Ш	Equalizer	
	Auto Volume	: Off
	SRS WOW	: Off
X	Turbo Sound	: Off
	Pseudo Stereo	🖣 On 🕨
Å ÅÅ		
♦ Move ♦ Adjust		III Return

♦ Auto Volume

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.

♦ SRS WOW

Emphasizes midrange and bass and provides a simulated surround-sound experience.

Turbo Sound

This feature suitably emphasizes both higher and lower bands of sound (and includes other effects).

You can enjoy more magnificent and dynamic sound when watching music, movie, or other channel simply by pressing the **TURBO** button.

Pseudo Stereo

This feature converts a monaural sound signal into two identical left and right channels. Once the **Pseudo Stereo** is set to **On** or **Off**, these settings apply to the sound effects such as **Standard**, **Music**, **Movie**, and **Speech**.

1	Press the MENU (IIII) 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	ENTER () button.
4		e required option (Auto Volume, SRS WOW, Turbo Pseudo Stereo) by pressing the \blacktriangle or \blacktriangledown button.
5	To activat	e each feature, select \mathbf{On} by pressing the \blacktriangleleft or \blacktriangleright button.



SRS is a trademark of SRS Labs, Inc.

WOW technology is incorporated under license from SRS labs, Inc.

Selecting the Sound Mode (depending on the model)

The "DUAL I-II" button displays/controls the processing and output of the audio signal. When power is switched on, the mode is automatically preset to either "DUAL-I" 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.
 - 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 **DUAL I-II** button.

TURBO S.MENU S.MODE P.MODE DUAL HI P.SIZE SLEEP STILL Ea EB EB E PIP SOURCE SWAP	

Selecting the Melody



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

1	Press the MENU (IIII) button.	
	Result:	The main menu is displayed.
2	Press the ▲ or ▼ button to select Setup .	
	<u>Result</u> :	The options available in the Setup group are displayed.
3	Press the ENTER (+) button.	
4	Press the ▲ or ▼ button to select Melody.	

5 To activate this feature, select **on** by pressing the \triangleleft or \triangleright button.

Setting and Displaying the Current Time

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

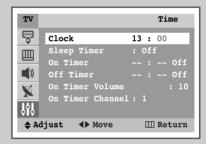
➤ When pressing the "①" button (On/Off) on the front of the television, the clock setting will be reset.

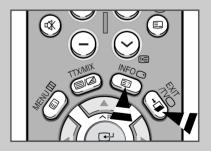
1	Press the MENU (IIII) button.
	Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select Setup .
	Result: The options available in the Setup group are displayed.
3	Press the ENTER (근) button.
4	Press the \blacktriangle or \blacksquare button to select Time .
5	Press the ENTER () button.
	Result: The Clock is selected.
6	Press the \blacktriangleleft or \blacktriangleright button to move to the hour or minute. Set the

6 Press the ◄ or ➤ button to move to the hour or minute. Set the hour or minute by pressing the ▲ or ▼ button.





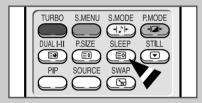




Setting the Sleep Timer



TV		Time
	Clock	13 : 00
і Ш	Sleep Timer	◀ 30 min 🕨
	On Timer	: Off
	Off Timer	: Off
X	On Timer Volume	: 10
	On Timer Channel	L:1
61 0		
♦ Mo	ve () Adjust	🖽 Return
_	-	



You can set your TV to automatically turn off after a preset interval.

1	Press the MENU (IIII) button.	
	Result: The main menu is displayed.	
2	Press the ▲ or ▼ button to select Setup .	
	Result: The options available in the Setup group are displayed.	
3	Press the ENTER () button.	
4	Press the \blacktriangle or \blacksquare button to select Time .	
5	Press the ENTER () button.	
	Result: The Clock is selected.	
6	Press the \blacktriangle or \triangledown button to select Sleep Timer .	
7	Select the preset time interval (Off , 30 min, 60 min, 90 min, 120 min, 150 min, 180 min) for staying on by pressing the ◀ or ► button.	

You can select a time period of between 30 and 180 minutes after the television automatically switches to Standby mode by pressing the SLEEP (②) button.

Switching the Television On and Off Automatically

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 page 31). If you have not yet set the clock, the message Set the clock first. is displayed.
- 1 Press the **MENU** (IIII) button.

Result: The main menu is displayed.

2 Press the \blacktriangle or \checkmark button to select **Setup**.

<u>Result</u>: The options available in the **Setup** group are displayed.

- 3 Press the ENTER (↔) button.
- 4 Press the \blacktriangle or \checkmark button to select **Time**.
- 5 Press the ENTER () button.

Result: The Clock is selected.

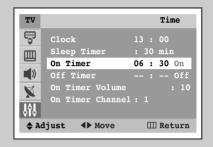
- 6 Press the ▲ or ▼ button to select **on Timer**. Set the time at which you wish the television to be switched on automatically.
 - Press the ◄ or ➤ button to move to the hour or minute.
 Set these by pressing the ▲ or ▼ button.
 - Press the ◄ or ➤ button to move off and then, press the ▲ or
 ▼ button to select on.
- 7 Press the ▲ or ▼ button to select **Off Timer**. In the same above, set the time at which you wish the television to be switched off automatically.

\succ	

Auto Power Off

When you set the timer "**On**", the television will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer "**On**" mode and prevents overheating or leakages, which may occur if a TV is on for too long (when you are on vacation, for example).





TV		Time
	Clock	13 : 00
m	Sleep Timer	: 30 min
	On Timer	06 : 30 On
	Off Timer	23 : 30 On
	On Timer Volume	: 10
	On Timer Channel	
٥ï٥		
🜲 Ad	just 🜗 Move	🖽 Return

Setting the Preferred Volume Level/Channel



TV		Time
	Clock	13 : 00
回	Sleep Timer	: 30 min
	On Timer	06 : 30 On
	Off Timer	23 : 30 On
X	On Timer Volume	₹ 10
ŶŶIJ	On Timer Channel	
♦ Move ◀▶ Adjust III Return		

The preferred volume and channel can be set for when the timer automatically turns on the TV.

1	Press the MENU (IIII) button.
	Result: The main menu is displayed.
2	Press the ▲ or ▼ button to select Setup.
	Result: The options available in the Setup group are displayed.
3	Press the ENTER () button.
4	Press the \blacktriangle or \blacksquare button to select Time
5	Press the ENTER () button.
	Result: The Clock is selected.
6	Press the \blacktriangle or \triangledown button to select On Timer Volume .
7	Press the ◀ or ► button to adjust volume level.
8	Press the \blacktriangle or \triangledown button to select On Timer Channel .
9	Press the \blacktriangleleft or \blacktriangleright button to select the channel.

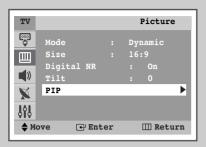
Viewing an External Signal Source/Edit Name (depending on the model)

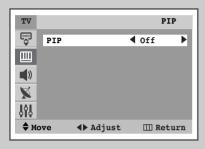
Use the remote control to switch between viewing signal from connected equipment, such as VCR, DVD, Set-Top-boxes and the TV source (broadcast or cable).

1	Press the	MENU (IIII) button.
	Result:	The main menu is displayed.
2	Press the	ENTER () button to select Input.
	Result:	The options available in the Input group are displayed.
3	Press the	ENTER () button again to select Source List.
	Result:	The options available in the Source List group are displayed.
4		▲ or ▼ button to select signal source, then press the →) button.
	bety	en you connect equipment to the TV, you can choose ween the following sets of jacks : EXT1 or EXT2 on the s rear panel, and AV/S-Video on the TV's side panel.
	SO whi	I can also set these options simply by pressing the URCE (-) button. If you change the external source le viewing, pictures might take a short period of time to switched.
dit /	Name	
1	Press the	MENU (IIII) button.
	Result:	The main menu is displayed.
2	Press the	ENTER () button to select Input.
	Result:	The options available in the Input group are displayed.
3		▲ or ▼ button to select Edit Name. ENTER (←) button.
	<u>Result</u> :	The options available in the Edit Name group are displayed.
4		▲ or ▼ button to select external device : r2 - AV - S-Video .
5	Select the	name by pressing the ◄ or ► button.

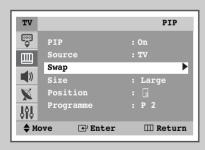


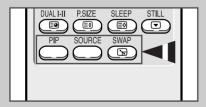
Viewing the Picture In Picture (PIP) (depending on the model)





TV		PIP
	PIP	: On
	Source	◀ TV
	Swap	▶
	Size	: Large
X	Position	
191	Programme	
🜲 ма	ove 📣 Adjust	III Return





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.

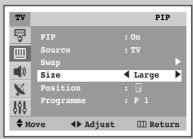
1	Press the MENU (IIII) button.	
	Result: The main menu is displayed.	
2	Press the ▲ or ▼ button to select Picture .	
	Result: The options available in the Picture group are displayed.	
3	Press the ENTER () button.	
4	Press the \blacktriangle or \blacktriangledown button to select PIP . Press the ENTER (\bigcirc) button.	
5	Press the ◀ or ► button to o n.	
	Result: The options available in the PIP group are displayed.	
	You can also activate the PIP simply by pressing the PIP button. To deactivate, press it again.	
6	Press the \blacktriangle or \blacktriangledown button to select Source .	
7	Press the ◀ or ► button to select a source of sub picture.	
	Result: The sources are displayed in the following order: TV - EXT1 - EXT2 - AV/S-Video	
	 The PIP picture can be viewed only when a source different from the main picture's is selected in the PIP window. 	
8	Press the \blacktriangle or \blacktriangledown button to select swap .	
9	Press the ENTER () button.	
	Result: The main picture and the sub picture are interchanged.	
	\succ You can also interchange the main picture and the sub	

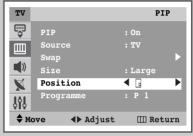
English - 36

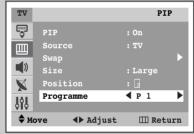
Viewing the Picture In Picture (PIP) (depending on the model) (continued)

10 Pre	Press the ▲ or ▼ button to select Size .		
11 Se	Select a size of sub picture by pressing the ◀ or ► button.		
Re	sult:The sizes are displayed in the following order:Large - Small - 3 PIP - 4 PIP - 12 PIP		
	3 PIP/4 PIP/12 PIP : You can view up to 3,4, or 12 memorizer channels on the sub picture spontaneously.		
	 You can select these options simply by pressing the SIZE button. 		
12 Pre	ess the ▲ or ▼ button to select Position .		
I3 Pre	ess the ◀ or ▶ button.		
Re	sult: The positions available are displayed.		
	 You can select these options simply by pressing the (Position) button. 		
cha	Press the \blacktriangle or \triangledown button to select Programme . You can select the channel that you want to view through sub picture by pressing the \triangleleft or \triangleright button.		

- When the **Source** is set to **TV**, you can select the channel of sub picture.
 - You can select the channel of the sub picture simply by pressing the ▲ or ▼ button.

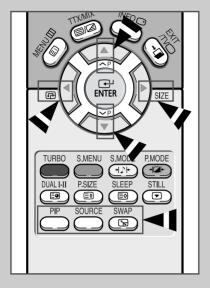








Viewing the Picture In Picture (PIP) (depending on the model) (continued)



Easy functions of remote control

Buttons	Feature
PIP	Used to activate or deactivate the PIP function directly.
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 (S) button after changing the sub picture channel. At this time, reselect the channel of main picture.
SOURCE	Used to assign a source of sub picture (TV , EXT1 , EXT2 , AV/S-Video).
SIZE	Used to select a size of sub picture (Large, Small, 3 PIP, 4 PIP, or 12 PIP).
(Position)	Used to move the sub picture counterclockwise.
P ^/∨	Used to select the channel of sub picture.

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

The teletext pages are organized according to six categories:

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.

It can be diffrent from depending on TTX source.

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

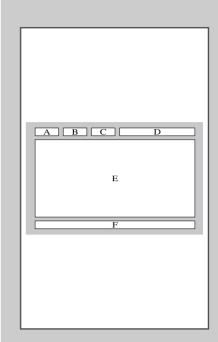
- Entering the page number
- Selecting a title in a list
- Selecting a coloured heading (FASTEXT system)

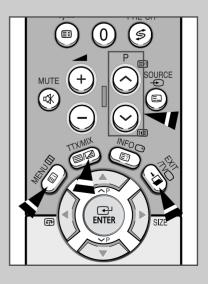
Displaying the Teletext Information

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

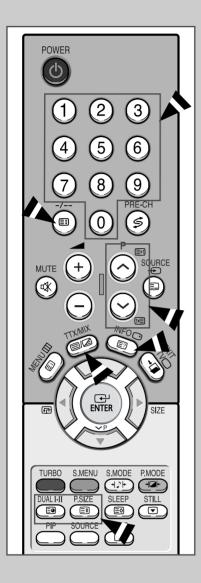
For Teletext information to be displayed correctly, channel reception must be stable; otherwise:

- Information may be missing
- Some pages may not be displayed
- 1 Select the channel providing the Teletext service using the \bigcirc or \bigcirc button.
- 2 Press the TTX/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 () (index) button.
- 3 If you wish to display the actual broadcast at the same time as the teletext page, press the TTX/MIX (≡/⁄≥) button again.
- 4 Press the **TV** () button to exit from the teletext display.





Selecting a Page by Number



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.
 - <u>Result</u>: The current page counter is incremented and the page is then displayed.
- 2 If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence. To freeze the display on a given page, press the (ΞΞ (hold). Press the (ΞΞ (hold) again to resume.

Using the various display options:

To display	Press the
 Both teletext information and the normal broadcast 	TTX/MIX (
 Hidden text (answers to quiz games, for example) 	(reveal)
The normal screen	E? (reveal) again
 A secondary page, by entering its 4-digit number 	E● (sub-page)
◆ The next page	En (page up)
The previous page	1 (page down)
 Double-size letters in the: Upper half of the screen Lower half of the screen 	E≇ (size) • Once • Twice
Normal screen	Three times

Using FLOF to Select a Page

The various topics included in the teletext pages are colour-coded, and can be selected by pressing the coloured buttons on the remote control.

- 1 Display the teletext contents page by pressing the **TTX/MIX** (⊜/之) button.
- 2 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 coloured 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 using the **TURBO** (Red) or **S.MENU** (Green) button.





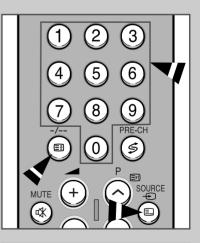
Storing Teletext Pages

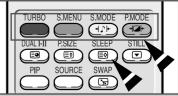
You can store up to four teletext pages to display them later at leisure.

1 Select the LIST mode using the 🗉 button.

<u>Result</u>: Four 3-digit numbers are displayed in different colours.

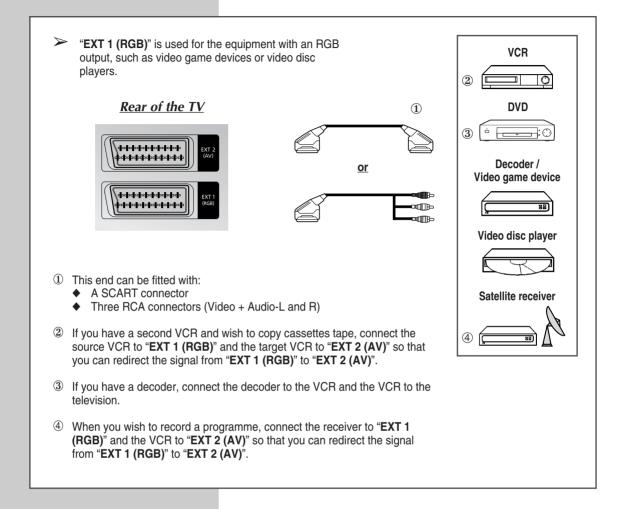
- The button is used to switch between the LIST and FLOF (or FASTEXT) modes.
- **2** Press the coloured button corresponding to the page that will be replaced.
- 3 Enter the new page number using the numeric buttons.
- 4 Repeat steps **2** and **3** for each page to be stored, using a different coloured button each time.
- **5** Press the 🗐 (store) button until the corresponding blocks blink.



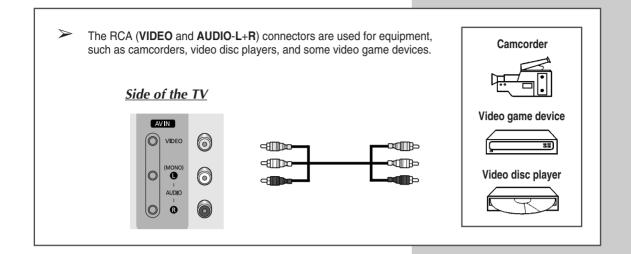


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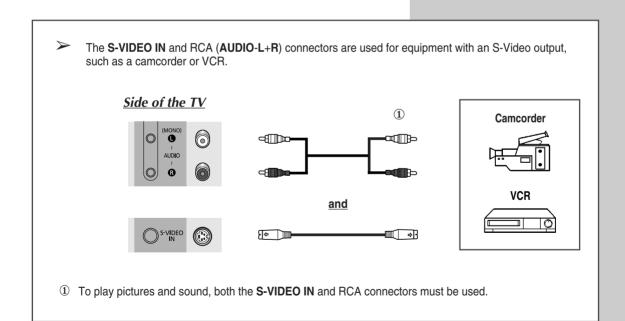
Connecting to the External Input/Outputs (depending on the model)



Connecting to the RCA Input (depending on the model)

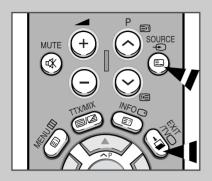


Connecting to the S-Video Input (depending on the model)



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.

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.
- - Result: The input sources are displayed in the following order:
 - EXT1 EXT2 AV/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.

Automatic Degaussing to Remove Colour Patches

A degaussing coil is mounted around the picture tube, so you do not normally need to degauss the television manually.

If you move the television to a different position and colour patches appear on the screen, you must:

- ◆ Switch the television off by pressing the "^①" (On/Off) button on the front panel
- Unplug the television from the wall socket
- ◆ Leave the television power-off for about 30 minutes so that the automatic degauss function can be activated, and then press the "POWER ()" button on the remote control.
- If your television will be left unattended, press the "①" (On/Off) button to turn your television off.

Troubleshooting: Before Contacting Service Personnel

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 "①" button (On/Off) and the POWER (③) button. Check the picture contrast and brightness settings. Check the volume.
Normal picture but no sound	 ♦ Check the volume. ♦ Check whether the 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 often occurs due 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.

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Memo

- 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.





Correct Disposal of This Product

(Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.

