- 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.



LCD TV

LW15M23C LW17M24C LW17M24CU LW20M21C LW20M21CU LW20M22C

Owner's Instructions

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



This device is a Class B digital apparatus.

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



LCD TV

LW15M23C LW17M24C LW17M24CU LW20M21C LW20M21CU LW20M21CU LW20M22C

Owner's Instructions

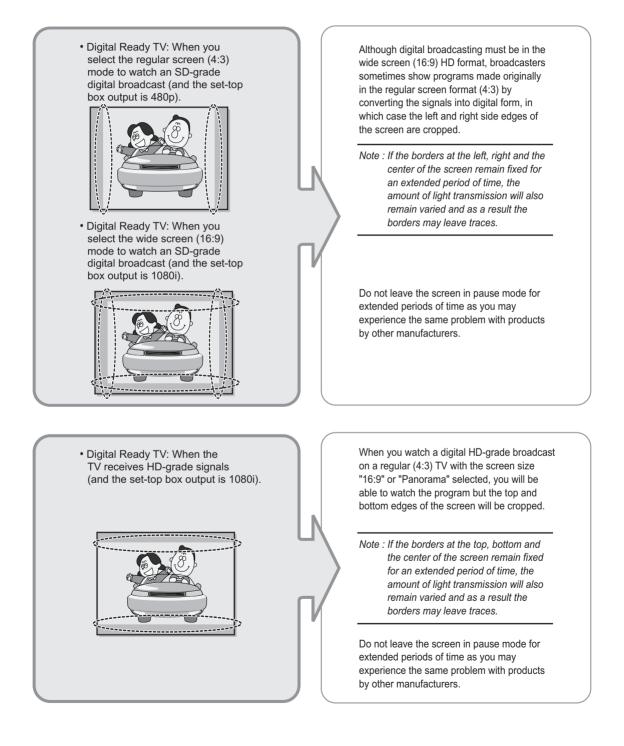
Before operating the unit, please read this manual thoroughly, and retain it for future reference.

ON-SCREEN MENUS PC DISPLAY TELETEXT

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

Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.



 Integrated Digital TV Although digital broadcasting must be in the (Wide-screen): When the TV wide screen (16:9) HD format, broadcasters receives SD-grade (regular) sometimes show programs made originally broadcasting signals (receives in the regular screen format (4:3) by 480p regular signals). converting the signals into digital form, in which case the left and right side edges of • Digital Ready TV (wide-screen): the screen are cropped. digital TV: When the TV receives SD-grade (regular) broadcasting Note : If the borders at the left, right and the signals (with a set-top box). center of the screen remain fixed for an extended period of time, the • When you watch an analogue (regular) broadcast on a amount of light transmission will also wide-screen TV (with the 4:3 screen remain varied and as a result the mode selected). borders may leave traces. Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers. If you connect a DVD player, computer or a · When you watch a DVD, CD or a video in wide screen (21:9) format on game console to the wide-screen TV and a wide-screen (16:9) TV. watch a movie or play a game in regular (4:3) or wide (21:9) screen mode, the left When you connect a computer or a and right side edges, or the top and bottom game console to the TV and select edges of the screen will be cropped. the 4:3 screen mode. Note : If the borders at the left, right and the center of the screen remain fixed for an extended period of time, the amount of light transmission will also remain varied and as a result the borders may leave traces. Do not leave the screen in pause mode for extended periods of time as you may experience the same problem with products by other manufacturers.

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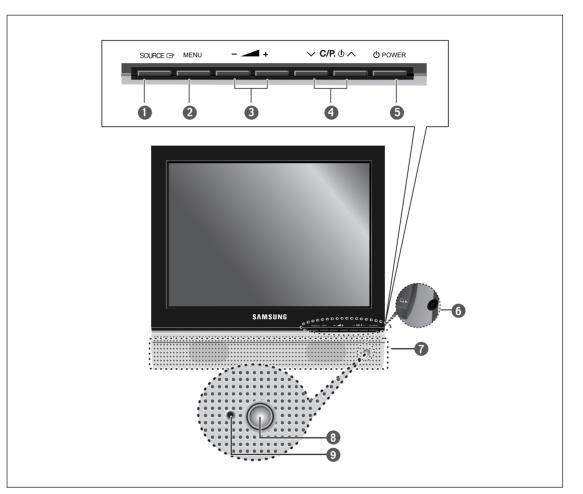








Viewing the Control Panel



● SOURCE 🗗

Displays a menu of all of the available input sources (TV - AV1 - AV2 - S-Video - PC).

You can also use the SOURCE(→) button on the TV's control panel to make selections.

2 MENU

Press to see an on-screen menu of your TV's features.

6 - 🖊 +

Moves the selector left or right on the OSD. Decreases or increases the level of audio volume and the values of the selected function.

④ ∨ C/P. ७ ∧

Moves the selector down or up on the OSD. Decreases or increases the channel number.

6 ⁽⁾ **POWER**

Turns ON/OFF your set.

6 HEADPHONE

ØSPEAKERS

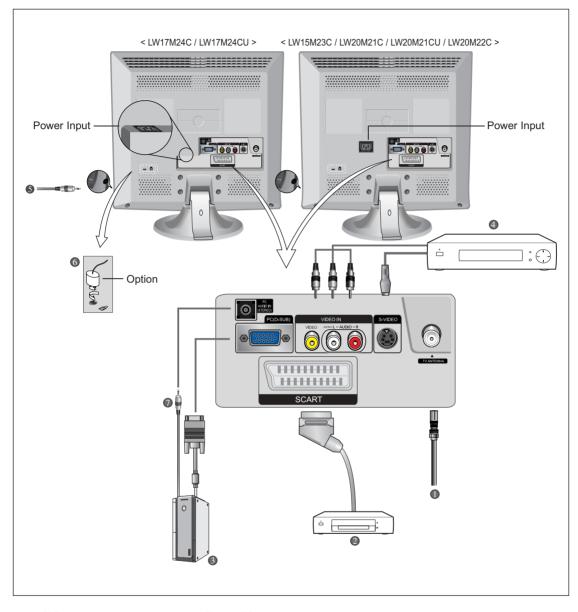
8 REMOTE CONTROL SENSOR

Aims the remote control towards this spot on the TV.

9 POWER INDICATOR

Lights up when you turn the power off. (Red light shows in stand-by mode, Red shows when you turn the power on, and light is off after the power is on. Green shows when you set Timer on or off.)

Viewing the Connection Panel



Whenever you connect an audio or video system to your set, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

English-5

Viewing the Connection Panel

Connecting an Aerial or Cable Television Network (depending on the model)

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

2 Connecting a Set-Top Box, VCR or DVD

- Connect the VCR, or DVD SCART cable to the SCART connector of the VCR, or DVD.
- If you wish to connect both the Set-Top Box and VCR (or DVD), you should connect the Set-Top Box to the VCR (or DVD) and connect the VCR (or DVD) to your set.

3 Connecting a Computer

- Connect the 15 Pin D-SUB connector to the PC video connector.
- Connect the stereo audio cable to the "PC AUDIO IN (STEREO)" jack (🕝)on the rear of your set and the other end to the "Audio Out" jack of the sound card on your computer.

> 15 Pin D-SUB connector

Pin	Separate H/V	Composite H/V
1	Red (R)	Red (R)
2	Green (G)	Green (G)
3	Blue (B)	Blue (B)
4	Grounding	Grounding
5	Grounding (DDC return)	Grounding (DDC return)
6	Grounding - Red (R)	Grounding - Red (R)
7	Grounding - Green (G)	Grounding - Green (G)
8	Grounding - Blue (B)	Grounding - Blue (B)
9	No connection	No connection
10	Grounding - Sync. / Self test	Grounding - Sync. / Self test
11	Grounding	Grounding
12	DDC - SDA (Data)	DDC - SDA (Data)
13	Horizontal Sync.	Horizontal/Vertical Sync.
14	Vertical Sync.	Not used
15	DDC - SCL (Clock)	DDC - SCL (Clock)

Viewing the Connection Panel

Connecting External A/V Devices

- Connect RCA or S-VIDEO cables to an appropriate external A/V device such as a VCR, DVD or Camcorder.
- Connect RCA audio cables to "(MONO)L-AUDIO-R" on the rear of your set and the other ends to corresponding audio out connectors on the A/V device.

5 Connecting Headphones

- Plug a set of headphones into the 3.5mm mini-jack socket on the right-side of the set. While the headphones are connected, the sound from the built-in speakers will be disabled.

6 Kensington Slot

- This television has been designed to apply a burglarproof lock. (See page 51)

Viewing Pictures From External Sources

2



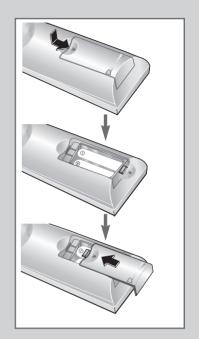
Once you have connected up your various audio and video systems, you can view the different sources by selecting the appropriate input.

- 1 Check that all the necessary connections have been made (refer to pages **6** and **7** for further details).
 - Press the **TV** button to choose TV mode.
 - Press the SOURCE button to choose Video mode. The input sources are displayed in the following order: AV1 - AV2 - S-Video - PC.

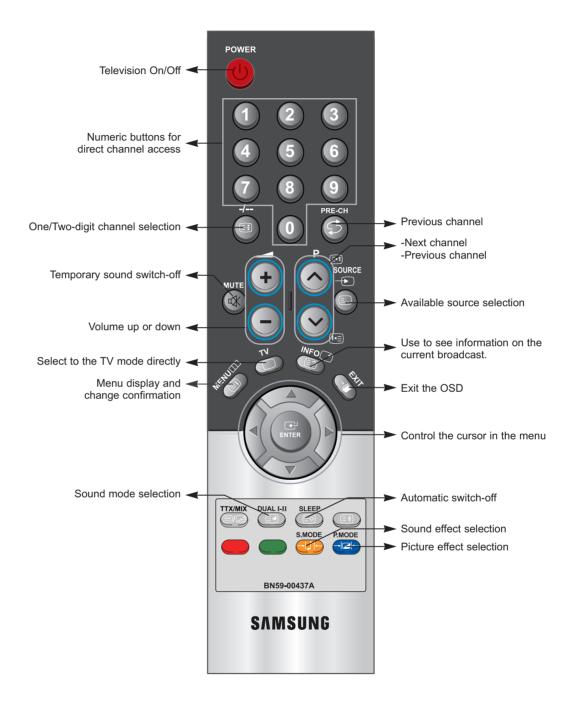
Inserting the Batteries in the Remote Control

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

- Purchase your set
- 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 Install two **AAA** size batteries.
 - + 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.
- > Do not mix battery types, i.e. alkaline and manganese.



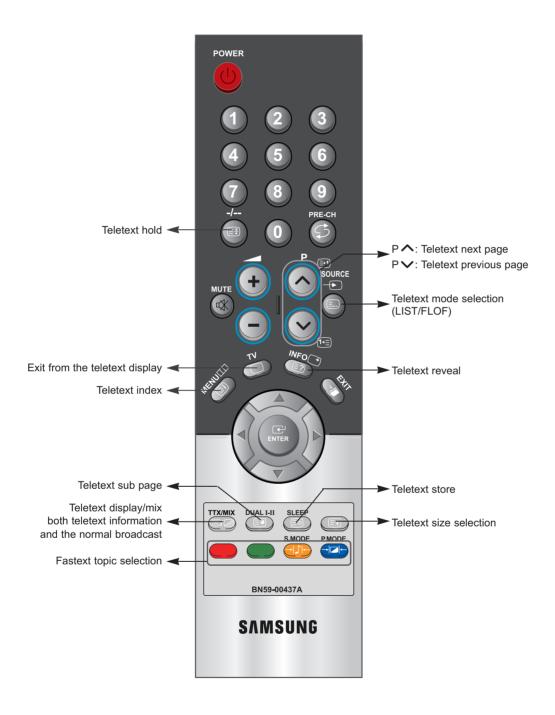
Viewing the Remote Control (All Functions Except Teletext)



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

English-10

Viewing the Remote Control (Teletext Functions)



English-11

Switching On and Off

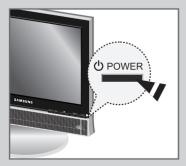


The mains lead is attached to the rear of your set.

- 1 Plug the mains lead into an appropriate socket.
 - Result: When the power cord is plugged in, the LED turns red.
- 2 Press the **OPOWER** button to switch on.
- 3 To switch off, press the **OPOWER** button again.

Placing in Standby Mode





Your set 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 **OPOWER** button.
- 2 To switch back on, simply press the [⊕]**POWER** button again, a numeric button, or channel ∨ or ∧ button.
- ➤ Do not leave your set in Standby mode for long periods of time (when you are away on holiday, for example). Turn off by pressing the ⁽¹⁾ **POWER** button. 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 your set using the on-screen menu system

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

Button	Viewing Function Menu Function
P ^	Used to display the next stored channel.
P V	Used to display the
PRE-CH	Used to switch repeatedly between the last two channels displayed. (PRE-CH ; Previous Channel)
0 - 9	Used to display the corresponding channels.
-/	Used to select a channel numbered ten or over. Press this button, and the "" symbol is displayed. Enter the two-digit channel number.
+	Used to increase the volume.
-	Used to decrease the volume.
MUTE K	 Used to switch the sound off temporarily. To turn the sound back on, press this button again, or press the + or - button.
MENU	Used to display the Used to return to the previous menu or normal viewing.
EXIT → 🗊	Used to exit the menu system and return directly to normal viewing.
	▲ ▼ Used to move among the menu items.
	Used to select a menu item or increase the value of the selected item.
	 Used to return to the previous menu item or decrease the value of the selected item.



Plug & Play

Plug & Play	,
Plug & Play	
Language	
English Français	
Italiano	
Deutsch Español	
Nederlands	
♦ Move 🕑 Enter	🛄 Skip
Plug & Play	
Check antenna ir	nput.
ОК	
Enter	🖽 Skip
Plug & Play	
Country	
Switzerland Sweden	
United Kingdom	
Eastern Europe Others	
Others	
♦ Move 🛃 Enter	🖽 Skip
Plug & Play	
Auto Store	
Auto Store P 1 C 4	40 MHz
	40 MHz 0 %
P 1 C 4	
P 1 C 4	
P 1 C 4 [0 %
P 1 C 4	0 %
P 1 C 4 Start C ^u Enter Plug & Play Hour	0 %
P 1 C 4	0 %
P 1 C 4 [Start C Enter Plug & Play Hour Clock Set	0 %
P 1 C 4 Start C ^u Enter Plug & Play Hour	0 %
P 1 C 4 [Start C Enter Plug & Play Hour Clock Set	0 %
P 1 C 4 [Start Start Clock Set	0 %
P 1 C 4 [Start Start Clock Set Clock Set Clock Set Plug & Play Enter Plug & Play	0 %
P 1 C 4 [Start Start C Enter Plug & Play Hour Clock Set Plug & Play Hour Hour	0 %
P 1 C 4 [Start Start C Enter Plug & Play Hour Clock Set Plug & Play Hour Hour	0 %
P 1 C 4 Start Start Clock Set Clock Set	0 %
P 1 C 4 Start Start Clock Set Clock Set	0 %

English-14

When the set is initially powered ON, you are automatically presented with a series of basic customer settings. The following settings are available.

- 1 If the set is in standby mode, press the **OPOWER** button on the remote control.
 - Result: The message **Plug & Play** is displayed. It appears for a little while, and then the **Language** menu is automatically displayed.
- 2 Select the appropriate Language by pressing the \blacktriangle or \triangledown button.
 - The available languages are listed. You can choose one of **12** languages.
- **3** Press the **ENTER** \bigcirc button to confirm your choice.
 - <u>Result</u>: The message **"Check antenna input."** is displayed with **OK** selected.
- 4 Press the ENTER & button.

Result: The country menu is displayed: Belgium - Germany - Spain - France - Italy -Netherlands - Switzerland - Sweden - United

Kingdom - Eastern Europe - Others

- 5 Select your **Country** by pressing the ▲ or ▼ button. Press the **ENTER** ↔ button.
 - Result: The Auto Store menu is displayed.
- 6 Press the ENTER I button.
 - Result: The channel search will start and end automatically.
 - To stop the search before it has finished, press the **ENTER** betton with **Stop** selected.
- 8 Press the **MENU** button to confirm your setting.
 - <u>Result</u>: The message "**Enjoy your viewing**" is displayed, and then the channel which has been stored will be activated.
- 9 Press the **EXIT** button to exit.

Plug & Play

If you want to reset this feature ...

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Setup .
	Result: The options available in the Setup group are displayed.
3	Press the ENTER to button.
4	Press the ▲ or ▼ button to select the Plug & Play . Press the ENTER ↔ button.
	Result: The message Plug & Play is displayed.

5 For further details on how to set up this feature, refer to the previous page.

TV		Setup
	Time	•
	Plug & Play Language :	► English
	Blue Screen :	Off ►
	PC	•
Move	🛃 Enter	III Return
TV		Setup
TV	Time	Setup
	Plug & Play	• •
		• •
	Plug & Play Language :	► English
	Plug & Play Language : Blue Screen :	► English Off ►
	Plug & Play Language : Blue Screen :	► English Off ►

Selecting TV Mode or an Input Source



You can choose TV mode or change to an input source connected to the TV set. Use this button to choose an input source that you would like to watch.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the ENTER I button to select the Input .
	Result: The options available in the Input group are displayed.
3	Press the ENTER I button.
	Result: The Source List is selected.
4	Press the ▲ or ▼ button to move to the input source that you wish to choose. Press the ENTER
	Result: The input source changes to the one you have chosen.

Editing an Input Source Name

Entering the names of the input source devices connected to the input ports on the TV set allows you to find and choose an input source that you would like to watch in a quick and convenient manner.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the ENTER I button to select the Input.
	<u>Result</u> : The options available in the Input group are displayed.
3	Press the ▲ or ▼ button to select the Edit Name . Press the ENTER ⊡ button.
4	Press the ▲ or ▼ button to move to the input source that you wish to edit. Press the ENTER
	Result: The following options are available
5	Select the required device by pressing the \blacktriangle or \blacktriangledown repeatedly.
	Result: The following options are available:

---- - VCR - DVD - Cable STB - HD STB - Satellite STB - AV Receiver - DVD Receiver - Game - Camcorder -DVD Combo - DHR - PC.

6 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.

ТУ			In	put
	Source L	ist :	TV	
m	Edit Nam			•
♦ Move		🚭 Enter	III Reti	urn
TV			In	put
• <u>•</u> •	Source L		τv	
	Edit Nam	e		
696				
Move		🚭 Enter	III Ret	um
		Enter		
TV	_	Le Enter	Edit Na	
	AV1	:	Edit Na	
TV	AV2	:	Edit Na	
TV		:	Edit Na —- VCR DVD Cable STB	
	AV2 S-Video	:	Edit Na VCR DVD	me
	AV2 S-Video	:	Edit Na VCR DVD Cable STB HD STB Satellite STE AV Receiver	me
	AV2 S-Video	:	Edit Na –– VCR DVD Cable STB HD STB Satellite STE AV Receiver	me
	AV2 S-Video	:	Edit Na VCR DVD Cable STB HD STB Satellite STE AV Receiver	me
	AV2 S-Video	:	Edit Na –– VCR DVD Cable STB HD STB Satellite STE AV Receiver	me
TV	AV2 S-Video PC	€ ⁴ Enter	Edit Na – VCR DVD Cable STB HD STB Satellite STE AV Receiver V Return Return	me
TV CCC CCC CCC CCC CCC CCC CCC C	AV2 S-Video PC AV1 AV2	Enter : : : : : : : : : : : : : : : : : : :	Edit Na VCR DVD Cable STB HD STB Satellite STE AV Receiver Retu Edit Na DVD Receiver	me am
TV CCC CCC CCC CCC CCC CCC CCC C	AV2 S-Video PC	€ ¹ Enter	Edit Na VCR DVD Cable STB HD STB Satellite STE AV Receiver Edit Na Edit Na Came Cameorder	me am
TV Image: Constraint of the second secon	AV2 S-Video PC AV1 AV2 S-Video	€ Enter	Edit Na VCR DVD Cable STB HD STB Satellite STE AV Receiver Edit Na DVD Receiver Game	me am
TV ♥ ● ● Move	AV2 S-Video PC AV1 AV2 S-Video	€ Enter	Edit Na VCR DVD Cable STB HD STB Satellite STE AV Receiver III Retu Edit Na Edit Na Cameorder DVD Combo	me am

Choosing Your Language

TV		Setup
	Time	••••
	Plug & Play Language :	► English
	Blue Screen :	Off ►
	PC	•
Move	Enter	III Return
•		
TV		Setup
<u></u>	Time	
Щ	Plug & Play Language :	► English ►
	Blue Screen :	Off ►
	PC	•
÷î÷		
Move	🛃 Enter	III Return
TV		Setun
TV	_	Setup
TV	Time Plug & Play	English
	Plug & Play Language :	English Français
	Plug & Play	English
	Plug & Play Language : Blue Screen :	English Français Italiano Deutsch Español
	Plug & Play Language : Blue Screen :	English Français Italiano Deutsch
	Plug & Play Language : Blue Screen :	English Français Italiano Deutsch Español
Image: Second	Plug & Play Language : Blue Screen : PC	English Français Italiano Deutsch Español Nederlands
	Plug & Play Language : Blue Screen : PC E ⁻¹ Enter	English Français Italiano Deutsch Español Nederlands
₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	Plug & Play Language : Blue Screen : PC С ² Enter Время	English Français Italiano Deutsch Español Nederlands Т Return Установка
₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	Plug & Play Language : Blue Screen : PC Enter Bpeмя Plug & Play Язык :	English Français Italiano Deutsch Español Nederlands
₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	Ріцд & Ріау Language : Blue Screen : PC С ² Enter Время Ріцд & Ріау Язык : Синий экран :	English Français Italiano Deutsch Español Nederlands ✓ П Return Установка
Image: Second	Plug & Play Language : Blue Screen : PC Enter Bpeмя Plug & Play Язык :	English Français Italiano Deutsch Español Nederlands Ш Return Установка Русский Svenska Eλληνικά Polski
Image: Second	Ріцд & Ріау Language : Blue Screen : PC С ² Enter Время Ріцд & Ріау Язык : Синий экран :	English Français Italiano Deutsch Español Nederlands ✓ Ш Returm Установка Русский Svenska Еλληνικά

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

- 1 Press the **MENU** button.
 - Result: The main menu is displayed.
- Press the ▲ or ▼ button to select the 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 the Language. Press the ENTER ⊡ button.
- 5 Select a particular Language by pressing the ▲ or ▼ button repeatedly.
- 6 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.

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	e MENU button.
	<u>Result</u> :	The main menu is displayed.
2	Press the	e \blacktriangle or \blacksquare button to select the Channel .
	<u>Result</u> :	The options available in the Channel group are displayed.
3	Press the	e ENTER œ button.
4		e ▲ or ▼ button to select Auto Store . e ENTER ⊡ button.
	<u>Result</u> :	The Start is selected.
5		e ENTER œ button to search the channels. menu is changed from Start to Stop with channel tarted.
	<u>Result</u> :	The search will end automatically. Channels are sorted and stored in an order which reflects their position in the frequency range, (with lowest first and highest last). The programme originally selected is then displayed.
		stop the search before it has finished, press the ENTER C (the channels.)
6		e channels have been stored, you can: or delete the channels (refer to page 22)

- Sort them in the order required (refer to page 23)
- Assign a name to the stored channels (refer to page 24)

7 Press the **EXIT** button to exit.

TV		Channel
	Country : Oth	ers 🕨
m	Auto Store	
	Manual Store Add/Delete	
	Sort	
	Name	
사라		
Move	🗲 Enter	III Return
L		
TV		Channel
	Country : Oth Auto Store	ers ►
	Manual Store	ers
	Add/Delete	
	Sort Name	
<u>×</u>	Naille	
914		
Move	🚭 Enter	III Return
	Auto Store	
P 1 C		40 MHz
		0 %
	Start	
	Enter	III Return
	Auto Store	
P 1 C	3	214 MHz
		20 %
	Stop	
	otop	
	Enter	III Return
		ill noturn

Storing Channels Manually

TV			Chan	nel
	Country	· 0	thers	►
m	Auto Store Manual Store			
	Manual Store Add/Delete			* * * *
	Sort			
X	Name			
496				
Move	🕑 Ent	ter	III Ret	urn
TV			Chan	nel
	Country	: 0	thers	
Щ	Auto Store Manual Store			
	Add/Delete			* * * *
	Sort Name			
	Name			
-				
Move	🕑 Ent	er	III Reti	urn
			lanual Ct	
TV			lanual St	ore
	Prog.			
	Colour System		UTO	
	Sound System	: B		
	Channel Search		- 49 MHz	
	Store		49 MITZ	
하는				
A Move	🕑 Enf		III Ret	irn
		er	ш ке	ann
TV		IV	lanual Ste	
TV	Prog.	N : P	lanual Ste	
TV	Prog. Colour System	N : P :	lanual Sto 1 AUTO	
TV	Prog. Colour System Sound System	N : P :	lanual Ste	
TV	Prog. Colour System	N : P : :	lanual Ste 1 AUTO PAL	
TV ∰ ↓)) ↓	Prog. Colour System Sound System Channel	N : P : :	lanual Sto 1 AUTO PAL SECAM	
TV (1) (1) (1) (1) (1) (1) (1) (1)	Prog. Colour System Sound System Channel Search Store	N : P : : :	Anual Sto 1 AUTO PAL SECAM NTSC4.43	pre
TV ∰ ↓)) ↓	Prog. Colour System Sound System Channel Search	N : P : : :	lanual Sto 1 AUTO PAL SECAM	pre
TV (1) (1) (1) (1) (1) (1) (1) (1)	Prog. Colour System Sound System Channel Search Store	N : P : . : . : ?	Anual Sto 1 AUTO PAL SECAM NTSC4.43	pre
TV () () () () () () () () () ()	Prog. Colour System Sound System Channel Search Store 健 Ent	• P : • • • • • • • • • • • • • • • • • • •	Ianual Sto 1 AUTO PAL SECAM NTSC4.43 III Retu Manual Sto	pre
TV	Prog. Colour System Sound System Channel Search Store C ¹ Ent Prog.	• P • • • • • • • • • • • • • • •	Ianual Sto 1 AUTO PAL SECAM NTSC4.43 III Retu Manual Sto	pre
TV Image: Constraint of the second secon	Prog. Colour System Sound System Channel Search Store 健 Ent	N : P : : : : : : : : P : A	Ianual St 1 AUTO PAL SECAM NTSC4.43 I Rett Aanual St 1	pre
TV ∰ ↓)) ★ Move TV ₩	Prog. Colour System Sound System Channel Search Store C ² Ent Prog. Colour System	N : P : : : : : : : : P : A	Aanual Ste 1 AUTO PAL SECAM NTSC4.43 III Retu Aanual St 1 UTO	pre
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TV Image: Constraint of the second secon	Prog. Colour System Sound System Channel Search Store C ² Ent Colour System Sound System Channel Search	N : P : . : . : . : .	Ianual Sto 1 AUTO PAL SECAM NTSC4.43 III Retu Aanual Sto 1 UTO G -	ore
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TV Image: Constraint of the second secon	Prog. Colour System Sound System Channel Search Store Colour System Colour System Channel Search Store Channel Channel Channel	M : P :	Ianual Ste 1 AUTO PAL SECAM VTSC4.43 III Annual St 1 - 49 MHz IIII Ret Annual St Janual St BG DK	Jurn
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You can store up to 100 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 button.
	<u>Result</u> :	The main menu is displayed.
2	Press the	■ A or ▼ button to select the Channel .
	<u>Result</u> :	The options available in the Channel group are displayed.
3	Press the	ENTER I button.
4		 ▲ or ▼ button to select the Manual Store. ENTER button.
	<u>Result</u> :	The options available in the Manual Store group are displayed with the Prog. selected.
5	Press the Select the	 ▲ or ▼ button to select Colour System. ENTER button. a Colour System required by pressing the ▲ or ▼ button y and then press the ENTER button.
	Result:	The colour standards are displayed in the following order: AUTO - PAL - SECAM - NTSC4.43
6	Press the Select the	■ ▲ or ▼ button to select Sound System . ■ ENTER → button. ■ Sound System required by pressing the ▲ or ▼ button y and then press the ENTER → button.
	<u>Result</u> :	The sound standards are displayed in the following order: ${\bf BG}$ - ${\bf DK}$ - ${\bf I}$ - ${\bf L}$
7		e channels to move to the required channel numbers, eps 5 to 6 after selecting Prog. by pressing the outton.

Storing Channels Manually

- 8 If you know the channel number to be stored,
 - Press the ▲ or ▼ button to select the Channel.
 Press the ENTER button.
 - Select C (Air channel) or S (Cable channel) by pressing the ▲ or ▼ button and then press the ENTER ↔ button.
 - ◆ Select the required number by pressing the ▲ or ▼ button and then press the **ENTER** ⊕ button.
 - If there is abnormal sound or no sound, re-select the sound system required.
 - You can also set a channel by pressing number buttons on the remote control.
- 9 If you do not know the channel numbers, press the ▲ or ▼ button to select Search.
 Press the ENTER button.
 Start the Search by pressing the ▲ or ▼ button.
 Press the ENTER button.

<u>Result</u>: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.

<u>Result</u>: The channel and associated programme number are stored.

11 Repeat Steps 8 to 10 for each channel to be stored.

12 Press the EXIT button to exit.

TV		_	Manual Store	_
<u> </u>				
Ð	Prog.			
	Colour System		AUTO	
	Sound System		BG	
	Channel		С	
	Search		49 MHz	
J ÎJ	Store	:	?	
Move	🗲 Er	nter	III Return	
Th (Manual Store	_
TV		_	Manual Store	_
	Prog.			
	Colour System		AUTO	
	Sound System		BG	
	Channel			
	Search		49 MHz	
494	Store		?	
Move	🛃 Er	nter	III Return	
TV			Manual Store	
			Walluar Store	
- <u></u>	Prog.			
Ш	Colour System		AUTO	
	Sound System		BG	
	Channel			
	Search		49 MHz	
999	Store		?	
Move	🛃 Er	nter	III Return	

Editing the Channels



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

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

1	
1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Channel .
	Result: The options available in the Channel group are displayed.
3	Press the ENTER œ button.
4	Press the ▲ or ▼ button to select Add/Delete . Press the ENTER
	Result: The state of the current channel is displayed.
5	Press the \land or \checkmark button to select the channel that you wish to Add or Delete .
	Result: If the channel that you wish to edit is not in memory, Add is selected and displayed. Otherwise, if the channel that you wish to edit is in memory, Delete is selected and displayed.
6	Press the ENTER I button to Add or Delete the channel.
7	Repeat Step 5 for each channel to be added or erased.
8	Press the EXIT button to exit.

Sorting the Stored Channels

You can exchange the numbers of two channels, in order to:

- Modify the numeric order in which the channels have been automatically stored.
- Assign easily remembered numbers to the channels that you watch most often.
- 1 Press the **MENU** button.

Result: The main menu is displayed.

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

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

- 3 Press the ENTER I button.
- 4 Press the ▲ or ▼ button to select **Sort**. Press the **ENTER** ↔ button.

Result: The current **Prog.**, **Channel** and **Name** are displayed.

5 Select the channel number that you wish to change by pressing the ▲ or ▼ button repeatedly. Press the ENTER → button.

<u>Result</u>: The selected **Channel** and **Name** are moved to the right side.

6 Press the ▲ or ▼ button to move to the position which you would like to change and then press the ENTER ⊕ button.

Result: The selected channel is exchanged with the one previously stored to the chosen number.

7 Repeat step **5** to **6** for another channel to sort again.

8 Press the **EXIT** button to exit.

TV				Channel
	Country Auto Store Manual St Add/Delete Sort Name	e ore	Others	5 b 5 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7
Move		🚭 Enter		III Return
TV				Channel
	Country Auto Store Manual St Add/Delet Sort Name	e ore	Others	5
Move		🕑 Enter		III Return
TV				Sort
	Prog. 1 2 3 4 5	Channel C2 C4 C- C- C- C-	Name 	Sort
	1 2 3	C2 C4 C- C-		Sort
©	1 2 3	C2 C4 C- C- C-] >
Image: Control of the second secon	1 2 3	C2 C4 C- C- C-] ►

Giving Channels Names

TV			Ch	annel
	Country Auto Stor Manual S Add/Dele Sort Name	tore	Others	× × × ×
Move		🛃 Enter	Ш	Return
TV			Cł	annel
	Country Auto Sto Manual S Add/Dele Sort	tore	Others	* * *
	Name	€ Enter		Return
		C Linter	ш	Return
TV				Name
	Prog. 1 2 3 4 5	Channel <u> </u>	Name	
Move	_	Enter	Ш	Return
TV				Name
	Prog. 1 2 3 4 5	Channel	Name	
Move		⊽ ♦ Adjust		Return

If channel name information is broadcast when you store the channels either manually or automatically, the names are assigned to the channels directly. You can however change these names or assign new names as required.

1	Press the MENU button.	
	Result: The main menu is displaye	d.
2	Press the \blacktriangle or \blacktriangledown button to select th	e Channel .
	Result: The options available in the	Channel group are displayed.
3	Press the ENTER I button.	
4	Press the ▲ or ▼ button to select th Press the ENTER	e Name.
	Result: The current Prog., Channe	and Name are displayed.
5	If necessary, select the channel to be assigned to a new Name by pressing the \blacktriangle or \blacktriangledown button. Press the ENTER \textcircled{C} button.	
	Result: The selection bar is display	ed around the name box.
6	То	Then
	Select a letter, number or symbol	Press the \blacktriangle or \blacktriangledown button
	Move on to the next letter	Press the ► button
	Move back to the previous letter	Press the ◀ button
	Confirm the name	Press the ENTER & button
	 The characters available are : Letters of the alphabet (A~Z) Numbers (0~9) Special characters (space, _) 	
7	Repeat Steps 5 to 6 for each channe new name.	I to be assigned to a
8	When you have finished entering the	name

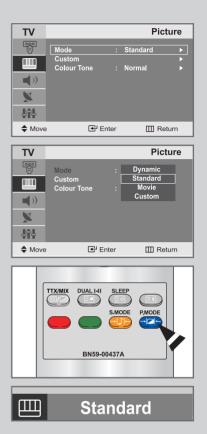
8 When you have finished entering the name, press the **ENTER** I button to confirm the name.

Changing the Picture Standard

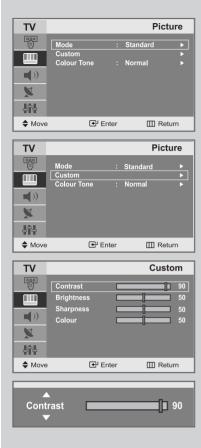
You can select the type of picture which best corresponds to your viewing requirements.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Picture .
	Result: The options available in the Picture group are displayed.
3	Press the ENTER G button.
	Result: The Mode is selected.
4	Press the ENTER I button.
5	Select the required picture effect by pressing the ▲ or ▼ button repeatedly. Press the ENTER
	Result: The following picture effects are available: Dynamic - Standard - Movie - Custom
6	Press the EXIT button to exit.
\succ	You can also set these options simply by pressing the

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



Adjusting the Custom Picture



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

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Picture .
	Result: The options available in the Picture group are displayed.
3	Press the ENTER I button.
4	Press the \blacktriangle or \lor button to select the Custom . Press the ENTER \bigcirc button.
5	Select the option (Contrast , Brightness , Sharpness , Colour or Tint-NTSC only) to be adjusted by pressing the ▲ or ▼ button. Press the ENTER → button.
	Result: The horizontal bar is displayed.
6	Press the \blacktriangleleft or \blacktriangleright button to reach the required setting.
7	When you are satisfied with the setting, press the MENU button to return to the previous menu or press the EXIT button to return to normal viewing.

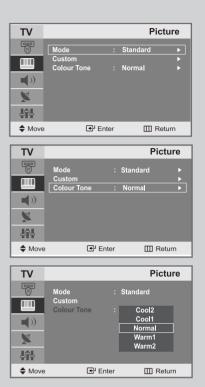
If you make any changes to these settings, the picture standard is automatically switched to Custom.

Adjusting the Screen Background Colour

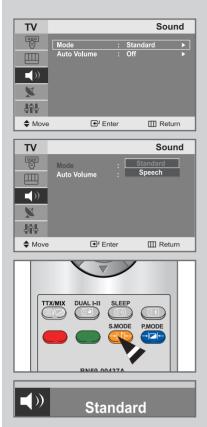
You can change the screen background colour according to your preference.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Picture .
	Result: The options available in the Picture group are displayed.
3	Press the ENTER G button.
4	Press the ▲ or ▼ button to select the Colour Tone . Press the ENTER ↔ button.
	Result: The following options are available: Cool 2 - Cool 1 - Normal - Warm 1 - Warm 2

5 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.



Changing the Sound Standard



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 \blacktriangle or \blacktriangledown button to select the Sound .
	Result: The options available in the Sound group are displayed.
3	Press the ENTER G button.
	Result: The Mode is selected.
4	Press the ENTER G button.
5	Select the required sound effect by pressing the ▲ or ▼ button repeatedly. Press the ENTER
	Result: The following sound effects are available: Standard - Speech
6	Press the EXIT button to exit.
\succ	You can also set these options simply by pressing the S.MODE (Sound Mode) button.

Selecting Auto Volume Control

Reduces the differences in volume level between broadcasters.

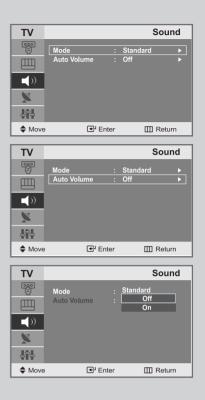
1 Press the **MENU** button.

Result: The main menu is displayed.

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

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

- 3 Press the ENTER I button.
- 4 Press the ▲ or ▼ button to select **Auto Volume**. Press the **ENTER** ↔ button.
- 5 Press the ▲ or ▼ button to select **Off/On**. Press the **ENTER** → button.
- 6 Press the **EXIT** button to exit.



Setting the Clock

$\begin{tabular}{ c c c } \hline Time & & & & \\ \hline Plug & Play & & \\ Language & : English & & \\ english &$	TV			Setup
Plug & Play : English Language : English ■)) Blue Screen : Off PC : Off > III Clock Sleep Timer : Off > IIII Of Timer Off > IIII Of Timer Off > IIII Of Timer Off > IIII Off IIII Off > IIII Off IIII Off > IIII Off IIII Off > IIIII IIIII 00 IIIII IIIIIIII IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Time		•
Image: Second state of the second		Plug & Pla		
Image: Second state of the second		Language Blue Scre	en : Engli	sn ► ►
Image: Seep Timer Image: Seep Timer		PC		•
 Move E¹ Enter Return TV Clock Image: Image: Im				
TV Time Image: Steep Timer : Off Steep Timer : Off Image: Steep Timer : Off	精			
Clock : Sleep Timer : Off Image: Sleep Timer	Move		🛃 Enter	III Return
Clock : Sleep Timer : Off On Timer Off Of Timer Off Off Off III Off IIII Off IIII Off IIII Off IIII Off IIII Off IIIII Off IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII				
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On Timer Off F ● Move Off Timer ● Move Image: Clock ● Move Adjust ● Move Adjust ● Move Steep Timer ● Steep Timer Off ● Off Timer Off ● Off Timer Off				•
● Off Timer Off ▶ ● Move ● Enter ● Move ● Enter ● Move ● Enter ■ Hour Minute ■ 12 00 ● Move ● Adjust	Щ		er : Off	Off N
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Image: Second state st				
♦ Move	A-			
TV Clock Image: State of the state of	<u>tit</u>			
Hour Minute Hour	Move		🛃 Enter	III Return
Hour Minute Hour				
Indui Indui Image: Second s				Clock
		Hour	Minute	
Image: Normal System Image: N		12	00	
Image: Normal System Image: N				
♦ Move Adjust III Return TV Time III Clock 12 : 00 Sleep Timer Off > On Timer Off > (ff) Off timer Off timer	×			
TV Time Image: Clock 12 : 00 → Image: Sleep Timer Image: Sleep Timer Off → Image: Sleep Timer On Timer Off → Image: Off → Image: Sleep Timer Image: Off Timer Off → Image: Sleep Timer	ļi!			
Clock 12 00 ▶ IIII Sleep Timer : Off ▶ On Timer Off ▶ Off ▶ III Off Timer Off ▶	♦ Move		Adjust	III Return
Clock 12 00 ▶ IIII Sleep Timer : Off ▶ On Timer Off ▶ Off ▶ III Off Timer Off ▶				
Clock Timer : 2 . 60 ↓ Clock Timer : 0 ff ↓ On Timer Off ↓ Off Timer Off ↓				Time
Sleep Timer : Off → On Timer Off → Off Timer Off →		Clock	12 : 00	
(↓)) Off Timer Off ►	Щ		er : Off	•
×				
♦ Move 🕑 Enter 🛄 Return	A			

1	Press the MENU button.	
	Result: The main menu is displayed.	
2	Press the \blacktriangle or \blacktriangledown button to select Setup .	
	<u>Result</u> : The options available in the Setup group are displayed.	
3	Press the ENTER I button.	
4	Press the ENTER C button.	
	Result: The Clock is selected.	
5	Press the ENTER	
6	Press the \triangleleft or \blacktriangleright button to move to Minute . Press the \blacktriangle or \blacktriangledown button to set the minutes.	
7	Press the ENTER I button.	
	Result: The clock is set.	
8	Press the EXIT button to exit.	
≻	You can also set the time using the numeric buttons on the remote.	

Switching Off Automatically

You can select a time period of between Off and 180 minutes after which your set automatically switches off.

1 Press the MENU button.	
---------------------------------	--

Result: The main menu is displayed.

- 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 ENTER 🕑 button.

Result: The preset Clock is selected.

- 5 Press the ▲ or ▼ button to select the **Sleep Timer**. Press the **ENTER** ↔ button.
- 6 Select the number of minutes after which your set switches **On** by pressing the ▲ or ▼ button repeatedly.

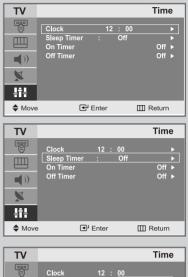
 Result:
 The preset time intervals:

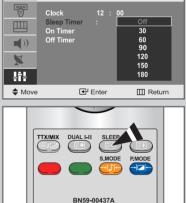
 Off, 30, 60, 90, 120, 150, 180 minutes.

- 7 Press the **EXIT** button to exit.
- > You can also select this feature by simply pressing the "SLEEP" button.

If the sleep timer is already set, the screen displays the remaining time and then your set will be switched **Off**.

- If the sleep timer is not yet set, Off is displayed.
- ◆ Off 30 60 90 120 150 180







Switching the Television On and Off Automatically

		0.1
TV		Setup
	Time Plug & Play	►
	Language : Er	nglish 🕨
	Blue Screen : Of	▶ nglish ► ff ►
X	10	
Move	🕑 Enter	III Return
TV		Time
8	Clock 12 :	00 ►
Щ	Sleep Timer : O	ff 🕨 🕨
	On Timer Off Timer	Off ► Off ►
A~		
łił		
Move	Enter	III Return
TV		Time
	Clock 12 : Sleep Timer : C	uu ► hff ►
	On Timer Off Timer	Off ► Off ►
	On Timer	
414		
Move	🛃 Enter	III Return
TV		On Timor
TV	Hour Minuto	On Timer
	Hour Minute	
	Hour Minute	
	00 v	1
	00 00 Channel Volume	e Setup
	00 v	e Setup
	00 00 Channel Volume	e Setup
Image: Second	Channel Volume	e Setup Off III Return
©	Channel Volume	e Setup Off
Image: Second	00 00 Channel Volume 1 10 ♦ Adjust	e Setup Off III Return Time 00 ▶
©	00 Channel Volume 1 10 € Adjust	e Setup Off I Return Time
	00 Channel Volume 1 10 ✦Adjust Clock 12 : Sleep Timer : C	e Setup Off III Return Time 00 ► 107
Image: Second	00 Channel Volume 1 10 Adjust Clock 12 : Sleep Timer : C On Timer	9 Setup Off
Image: Second secon	00 Channel Volume 1 10 Adjust Clock 12 : Sleep Timer : C On Timer	9 Setup Off
Image: Second secon	• • •	Setup Off Return Time 00 F Off Off Off Off Off
Image: Second secon	00 Channel Volume 1 10 Adjust Clock 12 : Sleep Timer : C On Timer	9 Setup Off
Image: Second secon	• • •	Setup Off Return Time 00 F Off Off Off Off Off
Image: Second secon	• • •	Setup Off Cff Returm Cf Cf Cf Cff Cff
Image: Second secon		e Setup Off III Returm 00 00 00 00 00 00 00 0
Image: Second		e Setup Off III Returm 00 00 00 00 00 00 00 0
Image: Second secon		e Setup Off III Returm 00 00 00 00 00 00 00 0
Image: Second secon		e Setup Off III Returm 00 00 00 00 00 00 00 0
Image: Second secon		e Setup Off III Returm Time 00 0ff ≻ 0ff ≻ 0ff ≻ 0ff × 0ff × 0ff × 0ff × 0ff × 0ff ×

You can set the On/Off timers so that the set 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.

1	Press the MENU button.		
	Result: The main menu is displayed.		
2	Press the \blacktriangle or \blacktriangledown button to select Setup .		
	Result: The options available in the Setup group are displayed.		
3	Press the ENTER G button.		
4	Press the ENTER I button.		
	Result: The Time menu are displayed with Clock selected.		
5	Press the \blacktriangle or \checkmark button to select the On Timer . Press the ENTER $$ button.		
	Result: The On Timer menu is displayed.		
	To Press the		
	Move to Hour, Minute, Channel and Volume < or > button		
	Set Hour, Minute, Channel and ▲ or ▼ button Volume level		
	Move to Setup		
	Select On to enable above setting ▲ or ▼ button		
6	Press the MENU button to return to the previous menu and to set Off Timer continuously. Press the \blacktriangle or \checkmark button to select Off Timer .		
	In the same way, set the time at which you wish the set to be switched off automatically.		
7	Press the EXIT button to exit.		

You can also set hour and minute by pressing the number buttons on the remote control.

Setting the Blue Screen Mode

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 button.	
	Result: The main menu is displayed.	
2	Press the \blacktriangle or \blacktriangledown button to select Setup .	
	Result: The options available in the Setup group are displayed.	
3	Press the ENTER I button.	
4	Press the \blacktriangle or \checkmark button to select Blue Screen . Press the ENTER \textcircled{H} button.	

- Select the required option (On or Off) by pressing the ▲ or ▼ button.
- 6 Press the **EXIT** button to return to normal viewing.

TV		Setup
	Time	•
	Plug & Play Language :	► English ►
	Blue Screen :	
×		
ļi l		
Move	🗲 Enter	III Return
ту		Setup
ा ए		Octup
	Time Plug & Play	► ►
	Language : Blue Screen :	► English ► Off ►
	PC	•
X		
łił	_	
Move	Enter	III Return
TV		Setup
	Time	
	Plug & Play Language :	English
	Blue Screen :	Off
×	10	On
łił		
Move	🗲 Enter	III Return

Displaying Information

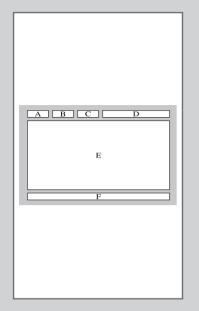
You can view the setting status of the selected source by pressing the "INFO" button on the remote control. The information displayed varies according to the selected source.





English-33

Teletext Feature



Most television channels provide written information services via teletext.

Information provided includes:

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

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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 indicators.
D	Date and time.
Е	Text.
F	Status information. FASTEXT information.

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 set.

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 ∧ or ∨ button.
- 2 Press the **TTX/MIX** button to activate the teletext mode.

Result: The contents page is displayed. It can be redisplayed at any time by pressing the (i) (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 again to exit 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 E (hold) button. Press the E (hold) button again to resume.

Using the various display options:

To display	Press the
 Hidden text (answers to quiz games, for example) 	E? (reveal)
◆ The normal screen	E? (reveal) again
 A secondary page, by entering its 4-digit number 	(subpage)
♦ The next page	(page up)
 The previous page 	📧 (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 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.

<u>Result</u>: The available subpages appear.

 ♦ Select the required subpage. Subpages can be scrolled by using the or 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 E (LIST/FLOF) button.

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

The E (LIST/FLOF) button is used to switch between the LIST and FLOF 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.





English-37

Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1 First, click on "Control Panel" on the Windows start menu.

- 2 When the control panel window appears, click on "**Appearance and Themes**" and a display dialog-box will appear.
- 3 When the control panel window appears, click on "Display" and a display dialog-box will appear.

4 Navigate to the "**Settings**" tab on the display dialog-box.

The correct size setting (resolution)

- refer to page 47, 49

If a vertical-frequency option exists on your display settings dialog box, the correct value is "**60**" or "**60 Hz**". Otherwise, just click "**OK**" and exit the dialog box.









Coarse and Fine Tuning of the Image

Preset to PC mode by pressing the SOURCE button on the remote contol.

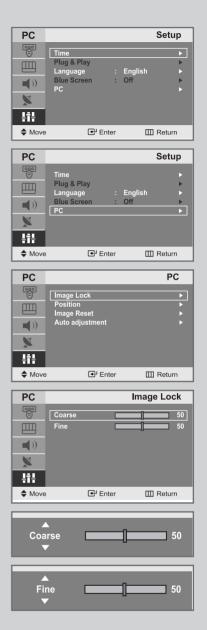
- 1 Press the **MENU** button. <u>Result</u>: The main menu is displayed.
- **2** Press the \blacktriangle or \checkmark button to select **Setup**.

Result: The options available in the Setup group are displayed.

- **3** Press the **ENTER** \bigcirc button.
- 4 Press the ▲ or ▼ button to select PC. Press the ENTER button.
 - <u>Result</u>: The options available in the **PC** menu are displayed.
- 5 Press the ENTER ⊕ button. <u>Result</u>: The Image Lock menu is selected.
- 6 Press the ▲ or ▼ button to select **Coarse** or **Fine**. Press the **ENTER** ↔ button.

Result: The horizontal bar is displayed.

- 7 Press the ◀ or ► button to adjust the screen quality. Vertical stripes may appear or the picture may become blurry.
- 8 When you are satisfied with the settings, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.



Changing the Image Position

PC		Setup
	Time Plug & Play	► Fals
	Language : Eng Blue Screen : Off PC	lish ► ► ►
₹ III		
Move	Enter	III Return
		-
PC		Setup
	Time Plug & Play Language : Eng Blue Screen : Off PC	lish
×		
łił		
Move	Enter	III Return
DC		PC.
PC		PC
PC	_Image Lock	
	Position	
		PC
	Position Image Reset	
	Position Image Reset	
	Position Image Reset Auto adjustment	
Image: Second s	Position Image Reset Auto adjustment	Return
Image: Control of the second secon	Position Image Reset Auto adjustment	> > >
Image: Second s	Position Image Reset Auto adjustment	Return
Image: Control of the second secon	Position Image Reset Auto adjustment	Return

- > Preset to PC mode by pressing the **SOURCE** button on the remote contol.
 - 1 Press the **MENU** button.

Result: The main menu is displayed.

- Press the ▲ or ▼ button to select Setup.
 <u>Result</u>: The options available in the Setup group are displayed.
- 3 Press the ENTER I button.
- Press the ▲ or ▼ button to select PC.
 Press the ENTER button.

<u>Result</u>: The options available in the **PC** menu are displayed.

- 5 Press the ▲ or ▼ button to select **Position**. Press the **ENTER** [•] button.
 - <u>Result</u>: You can adjust the image **Position**.
- 6 Press the ▲ or ▼ button to adjust the vertical position. Press the ◀ or ► button to adjust the horizontal position.
- 7 Press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Initializing the Image Settings

> Preset to PC mode by pressing the **SOURCE** button on the remote contol .

You can replace all image settings with the factory default values.

1	Press the MENU button. <u>Result</u> : 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
4	Press the ▲ or ▼ button to select PC . Press the ENTER
	Result: The options available in the PC menu are displayed.
5	Press the ▲ or ▼ button to select Image Reset . Press the ENTER
	Result: The message "Image Reset has completed." is displayed.

6 Press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

PC		Setu	р
	Time Plug & Play		
ш	Language :	English	▶ ▶
	Blue Screen : PC	Off	
X			
łił			
Move	🗲 Enter	III Return	n
			_
PC		Setu	р
990 E	Time		
	Plug & Play Language :	English	
	Blue Screen :	Off	
	PC		
łił			
Move	🗲 Enter	III Return	1
PC		P	2
<u></u>	Image Lock		
	Position		
	Image Reset		
	Auto adjustment		
×			
-tit			
Move	🛃 Enter	III Retur	n

Image Reset has completed.

Adjusting the PC Screen Automatically

PC		Setup
	Time Plug & Play	► English ► Off ►
	Language : Blue Screen : PC	English ► Off ►
X Iti		
Move	Enter	III Return
PC		Setup
	Time Plug & Play Language : Blue Screen : PC	
Move	Enter	III Return
PC		PC
Image: Constraint of the second s	Image Lock Position Image Reset Auto adjustment	> > >
Move	🛃 Enter	III Return

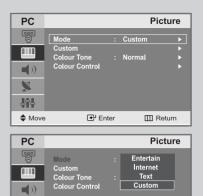
Auto adjustment

- > Preset to PC mode by pressing the **SOURCE** button on the remote contol .
- 1 Press the **MENU** button. The main menu is displayed. Result: 2 Press the \blacktriangle or \blacktriangledown button to select **Setup**. The options available in the **Setup** group are displayed. Result: 3 Press the ENTER + button. 4 Press the \blacktriangle or \blacktriangledown button to select **PC**. Press the ENTER I button. Result: The options available in the **PC** menu are displayed. 5 Press the ▲ or ▼ button to select Auto adjustment. Press the ENTER 🕑 button. Result: The screen quality and position are automatically adjusted, and the screen returns to the original view a few seconds later.
 - 6 Press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Picture Mode

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 \blacktriangledown button to select the Picture .
	Result: The options available in the Picture group are displayed.
3	Press the ENTER I button.
	Result: The Mode is selected.
4	Press the ENTER button.
5	Select the required picture effect by pressing the \blacktriangle or \blacktriangledown button repeatedly. Press the ENTER \bigcirc button.
	Result: The following picture effects are available: Entertain - Internet - Text - Custom
6	Press the EXIT button to exit.



🛃 Enter

III Return

× ∔†∔ ♦ Move

Adjusting the Custom Picture

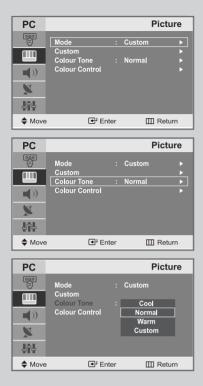
Your set has several settings which allow you to control picture quality.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Picture .
	<u>Result</u> : The options available in the Picture group are displayed.
3	Press the ENTER C button.
4	Press the \blacktriangle or \blacktriangledown button to select the Custom . Press the ENTER \textcircled{P} button.
5	Select the option (Contrast , Brightness) to be adjusted by pressing the ▲ or ▼ button. Press the ENTER I button.
	Result: The horizontal bar is displayed.
6	Press the \blacktriangleleft or \blacktriangleright button to reach the required setting.
7	When you are satisfied with the setting, press the MENU button to return to the previous menu or press the EXIT button to return to normal viewing.

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

PC			P	icture
	Mode Custom Colour Toi		Custom Normal	> >
▲》 <u>×</u> 特計	Colour Co	ntrol		•
Move		🛃 Enter	Ш	Return
PC			P	icture
920 (=)	Mode		Custom	•
	Custom Colour Tor	ne :	Norma	
	Colour Co	ntrol		
X				
494				
Move		🛃 Enter	Ш	Return
♦ Move		Enter		Return ustom
PC	Contrast	Enter		ustom
	Contrast Brightness			
PC				ustom
PC				ustom
PC				ustom
PC			C	ustom
PC ♥♥ ●)) ●)) ●)) ●))		5 –	C	ustom
PC ♥♥ ●)) ●)) ●)) ●))	Brightnes	5 –	C	ustom 90 50

Adjusting the Screen Background Colour

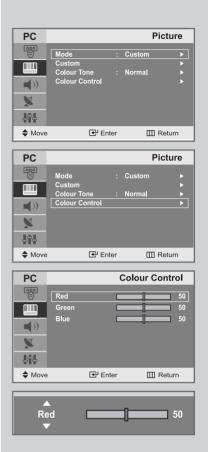


You can change the screen background colour according to your preference.

1	Press the MENU button.
	Result: The main menu is displayed.
2	Press the \blacktriangle or \blacktriangledown button to select the Picture .
	<u>Result</u> : The options available in the Picture group are displayed.
3	Press the ENTER I button.
4	Press the ▲ or ▼ button to select the Colour Tone . Press the ENTER e button.
	Result: The following options are available: Cool - Normal - Warm - Custom
5	When you are satisfied with your choice, press the EXIT button to return to normal viewing.

Customizing the Colour

- 1 Press the MENU button. Result: The main menu is displayed. 2 Press the \blacktriangle or \triangledown button to select the **Picture**. Result: The options available in the **Picture** group are displayed. 3 Press the ENTER & button. 4 Press the \blacktriangle or \triangledown button to select the **Colour Control**. Press the ENTER & button. Select the option (Red, Green, Blue) to be adjusted by pressing 5 the \blacktriangle or \blacktriangledown button. Press the ENTER & button. The horizontal bar is displayed. Result: 6 Press the \blacktriangleleft or \blacktriangleright button to reach the required setting.
- 7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.



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 your set 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 DPOWER button. Check the picture contrast and brightness settings. Check the volume.
Normal picture but no sound.	 Check the volume. Check whether the MUTE K button has been pressed on the remote control.
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 set and move it further away. Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound.	 Check the direction, location and connections of your aerial. This interference is often 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.
"Check signal cable" message is displayed.	 Check that the signal cable is firmly connected to the PC. Check that the PC is turned on.
In PC mode, " Mode Not Supported" message is displayed.	 Check the maximum resolution and the frequency of the video adapter. Compare these values with the data in the Display Modes. (refer to page 49)
In PC mode, horizontal or vertical bars appear to flicker, jitter or shimmer on the image.	 Adjust the Coarse or Fine function. (refer to page 39)
In PC mode, the screen is black and the power indicator light is steady amber or blinks every 0.5 or 1 seconds.	 The TV is using its power management system. Move the computer's mouse or press any key on the keyboard.

Troubleshooting: Before Contacting Service Personnel

In PC mode, the image is not stable and may appear to vibrate.

- Check that the display resolution and frequency from your computer or video board is an available mode for your set. On your computer check: Control Panel, Display, Settings.
- If the setting is not correct, use your computer utility programme to change the display settings.

Your set supports multiscan display functions within the following frequency domain:

	15"(LW15M23C)	17"(LW17M24C)/ 17"(LW17M24CU)	20"(LW20M21C)	20"(LW20M22C)/ 20"(LW20M21CU)
Horizontal frequency(kHz)	30~69	30~80	28~33	28~47
Vertical frequency(Hz)	50~75	50~75	50~70	50~75
Maximum refresh rate (at 75Hz)	1024X768	1280X1024	640X480	800X600

In PC mode, the image is not centred on the screen.

Adjust the horizontal and vertical position.

TFT LCD panel manufactured by using advanced semiconductor technology with precision of 1ppm(one millionth) above is used for this product. This is not from bad quality and you can use it without uneasiness. For example, the number of TFT LCD sub pixels: LW15M23C - 2,359,296, LW17M24C/LW17M24CU - 3,932,160, LW20M21C - 921,600, LW20M21CU,LW20M22C - 1,440,000

Power Saver

This set has a built-in power management system called PowerSaver. This system saves energy by switching your set into a low-power mode when it has not been used for a certain period of time. The available modes are "On", "Standby", "Sleep", and "Deep Sleep". PowerSaver operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power-Saving Function mode (EPA/NUTEK)		
Horizontal Sync	Active	Inactive		
Vertical Sync	Active	Inactive		
Power Indicator	Off Red, Blinking (1 sec interval)			
Power Consumption	15" 40W, 17" 45W, 20" 55W	Less than 3W		

This set automatically returns to normal operation when horizontal and vertical sync are restored.

This occurs when you move the computer's mouse or press any key on the keyboard.

Technical and Environmental Specifications

Model Name	LW15M23C	LW17M24C/LW17M24CU	LW20M21C	LW20M21CU/LW20M22C
Panel Size Display Size Type Pixel Pitch Viewing Angle	331.6(H) x 254.9(V)mm 13.05(H) x 10.03(V)inch 304.1(H) x 228.1(V)mm 11.97(H) x 8.98(V)inch a-si TFT active matrix 0.297(H) x 0.297(V)mm 140/115	383.5(H) x 298.0(V)mm 15.09(H) x 11.73(V)inch 337.9(H) x 270.3(V)mm 13.30(H) x 10.64(V)inch a-si TFT active matrix 0.264(H) x 0.264(V)mm 140/120	413.0(H) x 311.0(V)mm 16.25(H) x 12.24(V)inch 408.0(H) x 306.0(V)mm 16.06(H) x 12.05(V)inch a-si TFT active matrix 0.6375(H) x 0.6375(V)mm 160/150	413.0(H) x 311.0(V)mm 16.25(H) x 12.24(V)inch 408.0(H) x 306.0(V)mm 16.06(H) x 12.05(V)inch a-si TFT active matrix 0.51(H) x 0.51(V)mm 160/120
Frequency Horizontal Vertical Display Color	30 ~ 69kHz 50 ~ 75Hz 16.2 Million	30 ~ 80 kHz 50 ~ 75Hz 16.2 Million	28 ~ 33kHz 50 ~ 70Hz 16.7 Million	28 ~ 47kHz 50 ~ 75Hz 16.7 Million
Resolution Optimum Maximum	1024 x 768@60Hz 1024 x 768@75Hz	1280 x 1024@60Hz 1280 x 1024@75Hz	640 x 480@60Hz 640 x 480@70Hz	800 x 600@60Hz 800 x 600@75Hz
Input Signal Sync. Video Signal	H/V Separate, TTL, P or N 0.7 Vp-p @75 Ω			
Video Color System Video System	PAL / NTSC / SECAM CVBS, S-VHS, RGB			
Power Supply Input	AC 100V ~ 240V (50 / 60Hz)			
Power Consumption Maximum Power Saving	40W <3W	45W <3W	55W <3W	55W <3W
Dimension (W x D x H) TV Body With stand	360.2 x 64.2 x 338.6 mm (14.18 x 2.53 x 13.33 inch) 360.2 x 192.9 x 396.5 mm (14.18 x 7.59 x 15.61 inch)	416.7x 71.8 x 392.9 mm (16.40 x 2.82 x 15.46 inch) 416.7 x 192.9 x 423.8 mm (16.40 x 7.59 x 16.68 inch)	479.0 x 74.7 x 436.4 mm (18.86 x 2.94 x 17.18 inch) 479.0 x 226.0 x 463.0 mm (18.86 x 8.90 x 18.23 inch)	479.0 x 74.7 x 436.4 mm (18.86 x 2.94 x 17.18 inch) 479.0 x 226.0 x 463.0 mm (18.86 x 8.90 x 18.23 inch)
Weight With stand	3.6 kg (7.94 lbs)	4.95 kg (10.91 lbs)	7.15 kg (15.76 lbs)	7.45 kg (16.42 lbs)
Environmental Considerations Operationg Temperature Operating Humidity Storage Temperature Storage Humidity	50°F to 104°F (10°C to 40°C) 10% to 80%, non-condensing -4°F to 113°F (-20°C to 45°C) 5% to 95%, non-condensing			
Audio Characteristics Audio Input PC Audio Input Audio Output Headphone Output Frequency Response	RCA Jack (L, R), 0.5Vrms(-9dB) 3.5ø Stereo Jack, 0.5Vrms(-9dB) 2.5W x 2 Max.10mW Output(3,5ø Stereo Jack 32) RF : 80Hz ~15kHz at -3dB A/V : 80Hz ~20kHz at -3dB			

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn't equal the standard signal mode, adjust the mode by referring to your Videocard user guide; otherwise there may be no video. For the display modes listed below, the screen image has been optimized during manufacture.

N	lode(PC)	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
	LW15M23C 17M24C 17M24CU	720X400	31.469	70.087	28.322	_ / +
VGA	20M21C 20M21CU 20M22C	640X480	31.469	59.940	25.175	- / -
	LW15M23C 17M24C 17M24CU 20M21CU 20M22C	640X480	37.500	75.000	31.500	-/-
SVGA		800X600	46.875	75.000	49.500	+ / +
	5VGA 5M23C, 17M24C, 121CU, 20M22C	800X600	37.879	60.317	40.000	+ / +
	XGA	1024X768	48.363	60.004	65.000	_ / _
LW15M230	C, 17M24C,17M24CU	1024X768	60.023	75.029	78.750	+ / +
SXGA		1280X1024	63.981	60.020	108.000	+,-/-,+
LW17M2	24C, LW17M24CU	1280X1024	79.976	75.025	135.000	+ / +



Note: The maximum tilt angle is 13 degrees in the backward direction.

Please do not tilt the TV outside the specified range. Using excessive force to tilt the TV may cause permanent damage to the mechanical part of the stand.

< LW20M21C / LW20M21CU / LW20M22C > model swivels left and right.





< LW15M23C / LW17M24C / LW17M24CU >



< LW20M21C / LW20M21CU / LW20M22C >

10.09

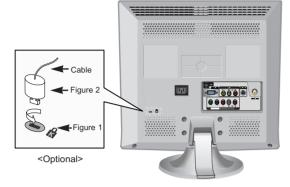


Using Your TV in Another Country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world.

A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies.

Using the Anti-Theft Kensington Lock

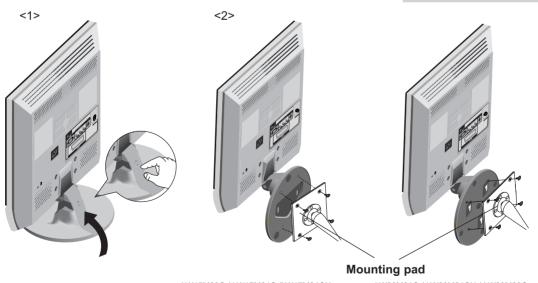


The Kensington lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately.

The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.

- Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).
- 2. Connect the Kensington lock cable.
- 3. Fix the Kensington lock to a desk or a heavy stationary object.

Installing VESA compliant mounting devices



< LW15M23C / LW17M24C /LW17M24CU>

< LW20M21C / LW20M21CU / LW20M22C >

<1> Fold the stand pressing the button on the back of the stand.

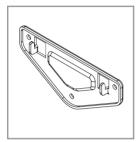
<2> Align the mounting interface pad with the holes in the stand bottom and secure it with the four screws that come with the arm-type base, wall mount hanger or other bases.

Installing the Wall Mount Kit (Lw15M23C/Lw17M24C/Lw17M24CU)

Note : This installation is to be used when attaching the wall mount to a concrete wall. When attaching to other building materials, please contact your nearest dealer.

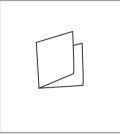
Components

Please use provided components or parts to install the Wall Mount Kit.









Bracket



Screws : 3EA

Installation Guide

How to assemble the Wall Mount Kit

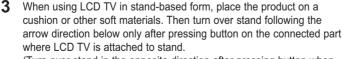
1 **1** Mark the location of hole on the wall using installation guide.

Make over 35mm- depth- hole on the marked location using 5.0-diameter drill.

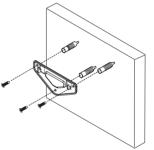
- 3 Fix anchors on each hole on the wall.
- Connect bracket to the wall with screws after fitting anchors into the bracket holes.

Note : If the bracket is not firmly fixed to the wall, LCD TV can fall off.

2 You may use LCD TV right after fixing it to the wall since stand is wrapped already turned over as shown in the picture below.



(Turn over stand in the opposite direction after pressing button when using LCD TV in wall-mounted form as well.)



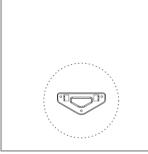


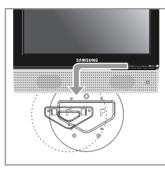


English-52

Installing the Wall Mount Kit (LW15M23C/LW17M24C/LW17M24CU)

4 Adjust LCD TV to the hook on the bracket and move in the direction of the arrow(Left) so that LCD TV can be completely fixed to the bracket.







When bracket is assembled on the wall

How to hang LCD TV up on a hook

When installation is completed

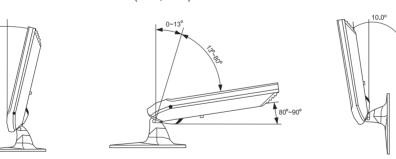
- **5** Remove Installation Guide after completing setup of monitor on the wall.
- 6 Push the LCD TV up and shift to the right to detach it from bracket. When moving or transferring to other areas, reverse No. 4 procedure so as to disconnect LCD TV with ease.

Description: How to adjust an angle

 Angle adjustment section of general stand-besd LCD TV

13.09

- (2) Angle abjustment section while converting the form (1->3, 3->1)
- (3) Angle adjustment section of wall-mounted LCD TV



Picture(1) shows the adjustment angle(0°~ 13°)when you use LCD TV in its general form(stand-based LCD TV). Excessive tilting can turn LCD TV over which might cause damage to LCD TV.

Picture(2) shows the adjustment angle(13°~ 80°)when you convert stand-based LCD TV into wall-mounted one.

B Picture(3) shows the adjustment angle(0°~ 10°) when you use wall-mounted LCD TV after fixing it to wall.

Note : Picture (2) shows the angle adjustment section while LCD TV is being converted from stand-based one to wall-mounted one or vice versa.

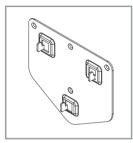
- Click" sound indicates section change from 1 to 2 or 3 to 2(1->2, 3->2).

Installing the Wall Mount Kit(Lw20M21C/Lw20M21CU/Lw20M22C)

Note : This installation is to be used when attaching the wall mount to a concrete wall. When attaching to other building materials, please contact your nearest dealer.

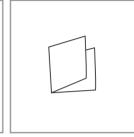
Components

Please use provided components or parts to install the Wall Mount Kit.









Bracket

Anchors : 4EA

Screws : 4EA

Installation Guide

How to assemble the Wall Mount Kit

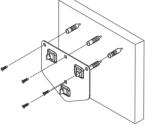
- 1 **1** Mark the location of hole on the wall using installation guide.
 - Make over 35mm- depth- hole on the marked location using 5.0-diameter drill.
 - 3 Fix anchors on each hole on the wall.
 - Connect bracket to the wall with screws after fitting anchors into the bracket holes.

Note : If the bracket is not firmly fixed to the wall, LCD TV can fall off.

2 You may use LCD TV right after fixing it to the wall since stand is wrapped already turned over as shown in the picture below.

3 When using LCD TV in stand-based form, place the product on a cushion or other soft materials. Then turn over stand following the arrow direction below only after pressing button on the connected part where LCD TV is attached to stand.
(Turn over stand in the appealite direction offer pressing button when

(Turn over stand in the opposite direction after pressing button when using LCD TV in wall-mounted form as well.)

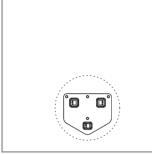


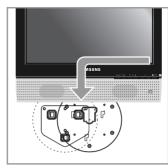




Installing the Wall Mount Kit(Lw20M21C/Lw20M21CU/Lw20M22C)

4 Adjust LCD TV to the hook on the bracket and move in the direction of the arrow(Left) so that LCD TV can be completely fixed to the bracket.







When bracket is assembled on the wall

How to hang monitor up on a hook

When installation is completed

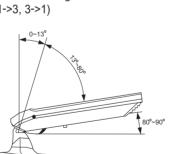
- **5** Remove Installation Guide after completing setup of LCD TV on the wall.
- 6 Push the LCD TV up and shift to the right to detach it from bracket. When moving or transferring to other areas, reverse No. 4 procedure so as to disconnect LCD TV with ease.

Description: How to adjust an angle

- Angle adjustment section of general stand-besd LCD TV
- (2) Angle abjustment section while converting the form (1->3, 3->1)
- (3) Angle adjustment section of wall-mounted LCD TV

10.0





Picture(1) shows the adjustment angle(0°~ 13°)when you use LCD TV in its general form(stand-based LCD TV). Excessive tilting can turn LCD TV over which might cause damage to LCD TV.

2 Picture(2) shows the adjustment angle(13°~ 80°)when you convert stand-based LCD TV into wall-mounted one.

B Picture(3) shows the adjustment angle(0°~ 10°) when you use wall-mounted LCD TV after fixing it to wall.

Note : Picture (2) shows the angle adjustment section while LCD TV is being converted from stand-based one to wallmounted one or vice versa.

Memo
