

# 26" LCD TV User's Guide

- Please observe all safety precautions when using this product.
- Please read this manual carefully before using this product.

### CONTENTS

- Quick and Easy Installation
- Versatility and Expandability
- That doesn't make you feel fatigue on your Eyes.
- Flat-Panel Digital Display easy on the Eyes.

### Safety Precautions

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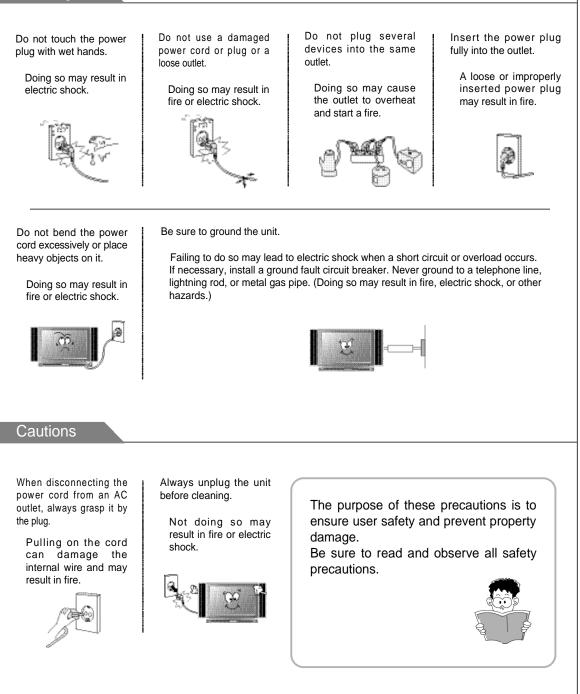
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#### Safety Precautions

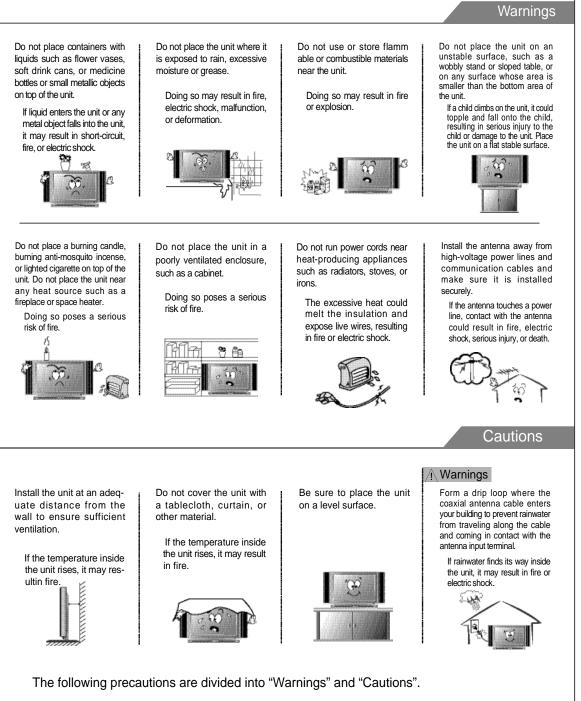
#### **Power Supply**

#### Warnings



### Safety Precautions

#### Installation

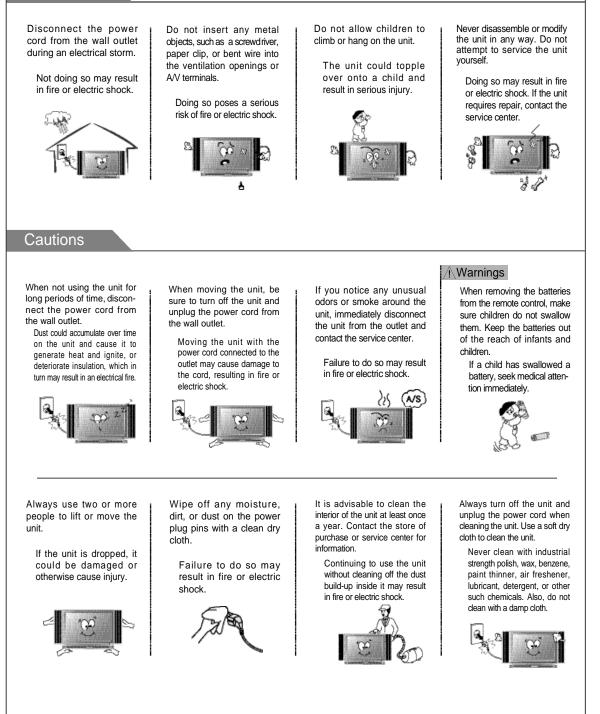


ightarrow Warning : Ignoring this precaution may result in death or serious injury.

 $\underline{\wedge}$  Caution : Ignoring this precaution may result in injury or property damage.

#### Use and Maintenance

#### Warnings

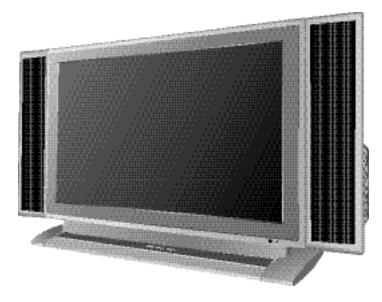


#### What is LCD TV?

### What is LCD TV?

LCD (Liquid Crystal Display) is a next generation flat-panel display module. Liquid crystal material is contained between sheets of glass and electricity causes the liquid crystal material to reflect or block the light emitted from a light source inside the display chassis.

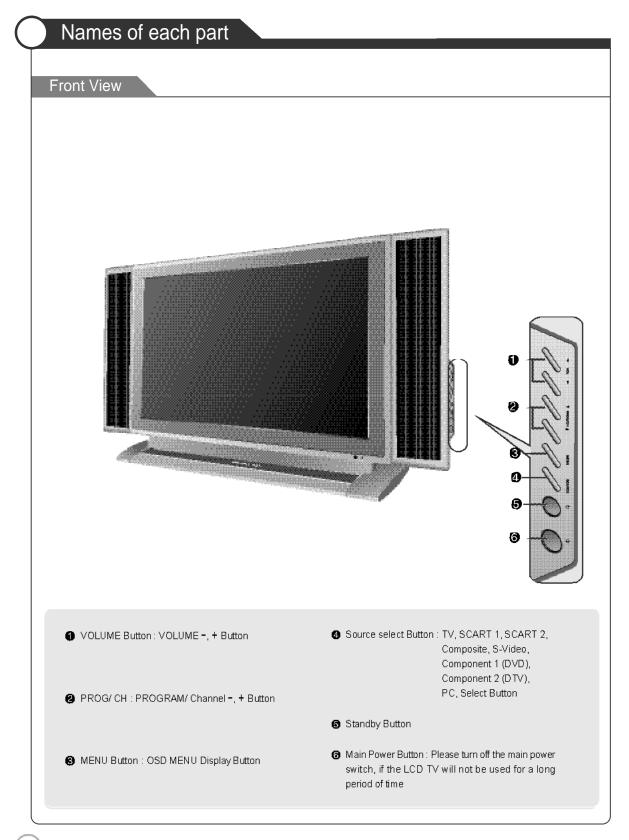
By incorporating this LCD display module, LCD TVs enable you to enjoy outstanding picture quality without the worries of space limitation and harmful radiation you may have experienced with conventional CRT TVs.

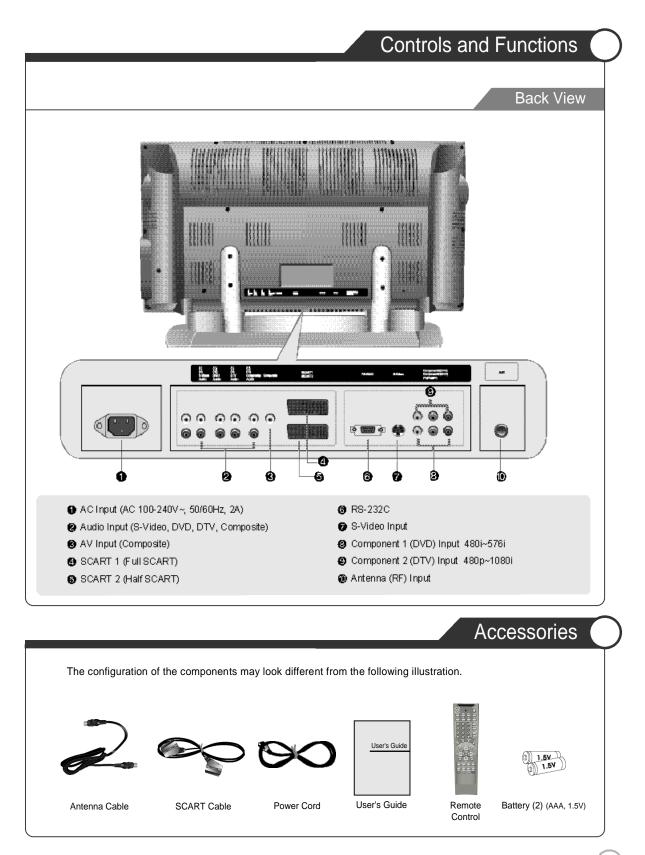


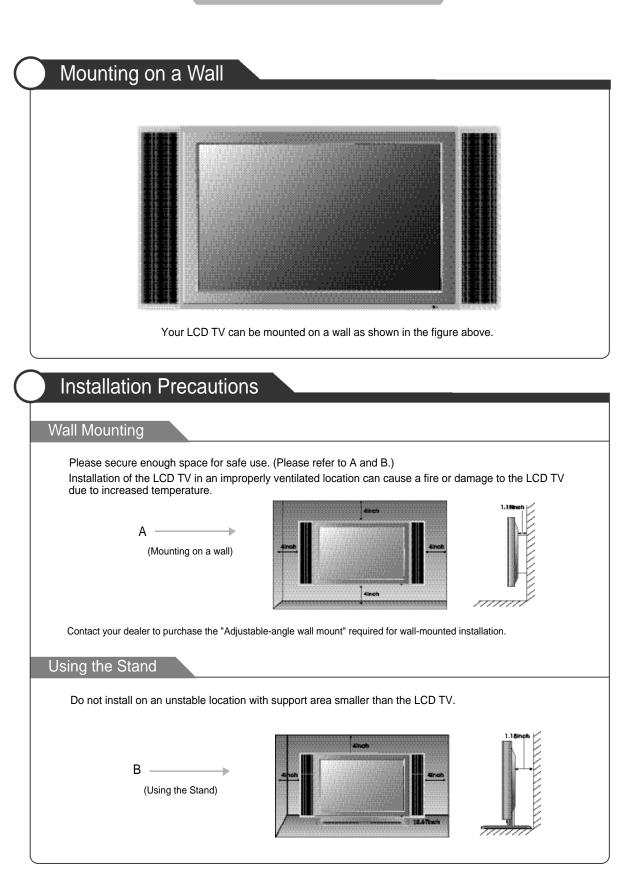
#### Features

- Picture-in-Picture : Enables you to simultaneously display two different image sources.
- HDTV-Ready Display : Enables you to view high-definition digital pictures using a DVD player or HDTV set-top receiver.
- Various Picture/Sound Controls : Enables you to set the picture and sound settings for a number of different types of programs and viewing and listening conditions.
- Auto Power On/Off Timer : Enables you to set the TV to automatically turn ON or OFF at a preset time.
- ATM : Enables you to set the TV to search for all available standard broadcast and cable TV channels and store them automatically.

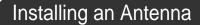
User Guidance Information

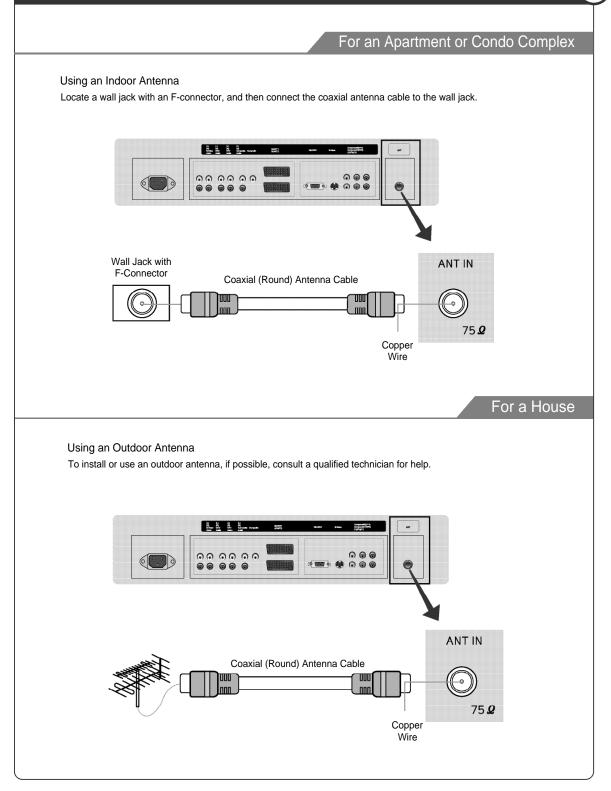






### User Guidance Information

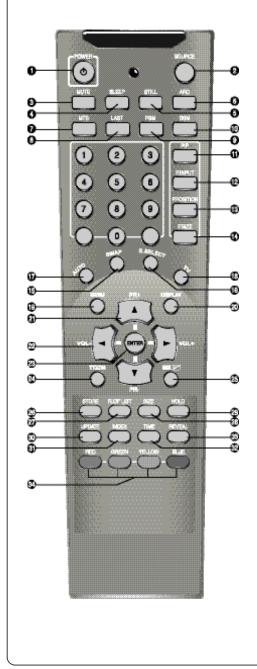




#### **Remote Controller**

#### Functions of remote control buttons

The remote control is using Infra-Red (IR). Point it towards the front of the LCD TV. The remote control may not work correctly if it is operated out of range or out of angle.



- 1. POWER : TURNS THE TV ON AND OFF(page.18)
- 2. SOURCE : USE TO SELECT AN INPUT SOURCE (page.20)
- 3. MUTE : PRESS TO TEMPORARILY CUT OFF THE SOUND (page.19)
- 4. SLEEP : PRESS TO SELECT A TIME FOR THE TV TO TURN OFF AUTOMATICALLY (page.37)
- 5. STILL : PRESS TO STOP THE ACTION DURING A PARTICULAR SCENE (page.31)
- 6. ARC (Aspect Ratio Control) : PRESS TO CHANGE THE SCREEN SIZE (page.27)
- 7. MTS (Multi-Television Sound) : PRESS TO SELECT MONO OR STEREO MODE (page.34)
- 8. LAST : TURNS TO THE PREVIOUS CHANNEL (page.19)
- 9. PSM : PICTURE STATUS MEMORY KEY (page.23) (CUSTOM, DYNAMIC, STANDARD, MOVIE, MILD)
- 10. SSM : SOUND STATUS MEMORY KEY (page.24) (CUSTOM, STANDARD, MUSIC, MOVIE, SPEECH)

PIP CONTROL KEY (page 32, 33)

- 11. PIP : PIP ON/OFF
- 12. P.INPUT : PIP INPUT SELECT KEY
- 13. P.POSITION : PIP POSITION CONTROL KEY
- 14. P.SIZE : PIP AND PBP MODE CHANGE
- 15. SWAP : PIP SOURCE SWAP
- 16. S.SELECT : SOUND SWAP KEY
- 17. AUTO(AUTO IN PROGRESS) : IN PC MODE, PRESS TO CONTROL THE MONITOR SCREEN AUTOMATICALLY
- 18. TV : TV INPUT SOURCE SELECT KEY
- 19. MENU : DISPLAYS THE MAIN ON-SCREEN MENU
- 20. DISPLAY : PRESS TO DISPLAY THE CURRENT CHANNEL AND AUDIO/ VIDEO SETTINGS (page.19)
- 21. , (PR+, PR-) : PROGRAM, MENU CONTROL OR PAGE UP AND DOWN KEY, STAND BY ON
- 22. , (VOL-, VOL+) : PRESS TO INCREASE OR DECREASE THE VOLUME OR MENU CONTROL KEY

23. ENTER : SAVE THE VALUE

TELETEXT CONTROL KEY (page 38)

- 24. TTXON : TELETEXT KEY
- 25. MIX Z: MIX WITH TV SCREEN
- 26. STORE : STORE THE USER DEFINED FAVORITE PAGE
- 27. FLOF LIST : EXCHANGE FLOF/LIST MODE
- 28. SIZE : TELE TEXT SCREEN SIZE KEY
- 29. HOLD : HOLD FUNCTION DURING TELETEXT DISPLAY
- 30. UPDATE : DISPLAY CANCEL OR TEXT UPDATE KEY
- 31. INDEX : TEXT INDEX KEY
- 32. TIME : TIME DISPLAY KEY
- 33. REVEAL : SELECT HIDDEN CONTENT DURING TELETEXT DISPLAY
- 34. RED, GREEN, YELLOW, BLUE : DIRECT ACCESS TELETEXT

LINKED PAGE KEY

### User Guidance Information

#### Precautions

Avoiding Remote Control Problems

- 1. Check the polarity (+,-) of the batteries in the remote controller.
- 2. Check that the batteries have power.
- 3. Check that the LCD TV is powered and that it is properly plugged in.
- 4. Check if any three-wavelength lamp, special fluorescent or neon sign is turned on near the LCD TV.

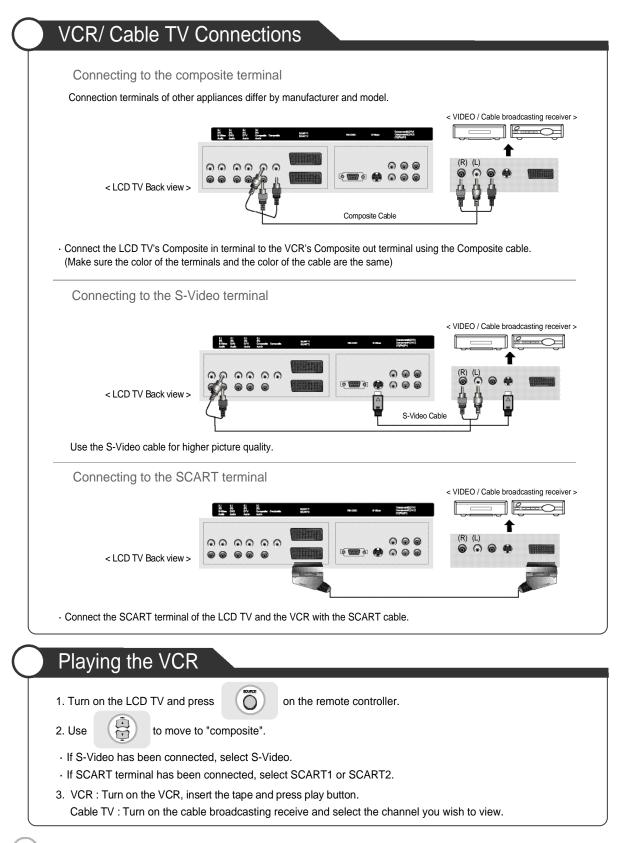
Inserting Batteries in the Remote Controller

- 1. Open the cover out completely.
- Insert the two supplied batteries (AAA, 1.5V). Ensure that the polarities (+ and -) of the batteries are aligned correctly.
- 3. Replace the cover.

CAUTION : Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries according to the national code (Recycling program).

#### How to use remote controller

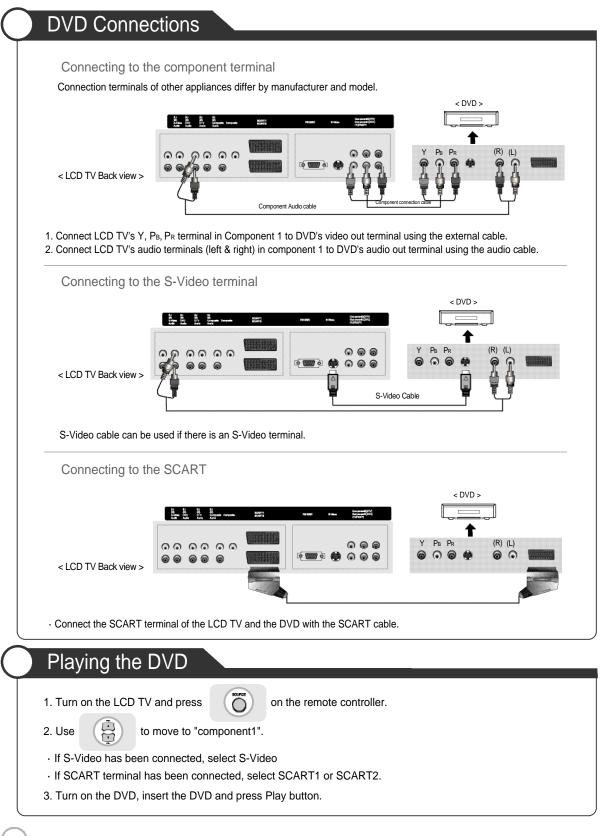
- The remote control should be operated within 23feet(7m) and 30° to the left and the right of the IR receiver on the front of the LCD TV.
- $\cdot$  Used batteries should be disposed properly.

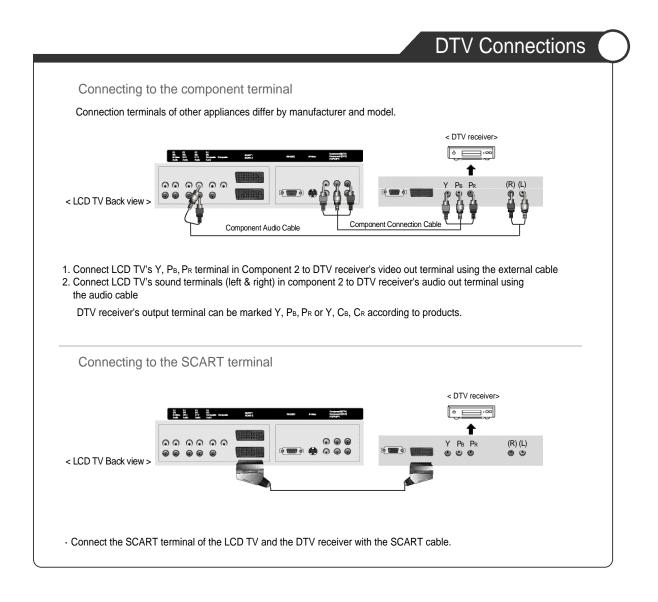


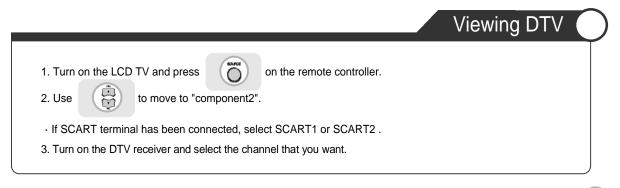
#### Camcorder/Game Console Connections

Connecting to the composite terminal Connection terminals of other appliances differ by manufacturer and model. < Camcorder/ Game machine > 61 6J 60 60 . . . .... 6 < LCD TV Back view > Composite Cable · Connect the LCD TV's Composite in terminal to the camcorder/game console's Composite out terminal with the Composite cable. (Make sure the color of the terminals and the color of cable are the same) Connecting to S-Video terminal < Camcorder/ Game machine > . . . 00 00 0 . . . 6 6 < LCD TV Back view > S-Video Cable S-Video cable can be used if there is an S-Video terminal.

1. Turn on the LCD TV and press on the remote controller.
2. Use to move to "composite".
If S-Video has been connected, select S-Video.
3. Turn on the Camcorder or video game and Set to Video mode. (Please refer to the User's manual of Camcorder/ Video game for more information)
4. Insert tape into Camcorder and press play button or insert disc into the Video game console.







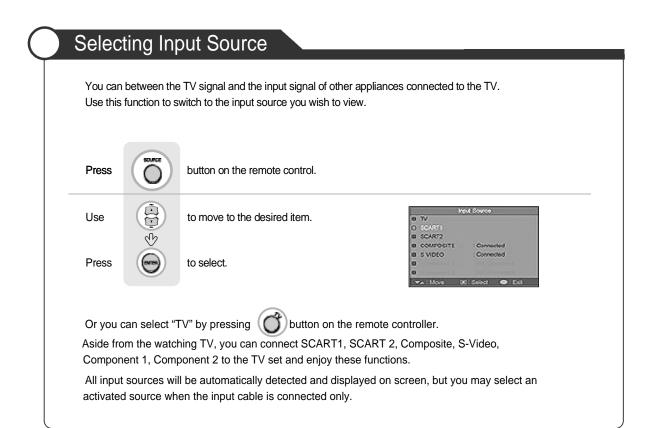
Powering the LCD TV
Power on/ off
To turn the LCD TV on :
Press the "Main Power" button of LCD TV and then press the "Standby" button.
· To turn the LCD TV off :
Press "Standby" button on the LCD TV and then press the "Main Power" button.
Turning the main power switch off will save energy. It is the same as unplugging the power cord. If ON Time setting is set, the main power should be ON.
To turn on/off by remote controller :
Press the Power button of remote controller (If the LCD TV is not turned on, check that the "Main Power"
button on the LCD TV main body is turned on. The main power indicator will light up red if turned on).
ACAUTION - After turning off the main Power, please wait at least more than 3 seconds to turn the main power back on.

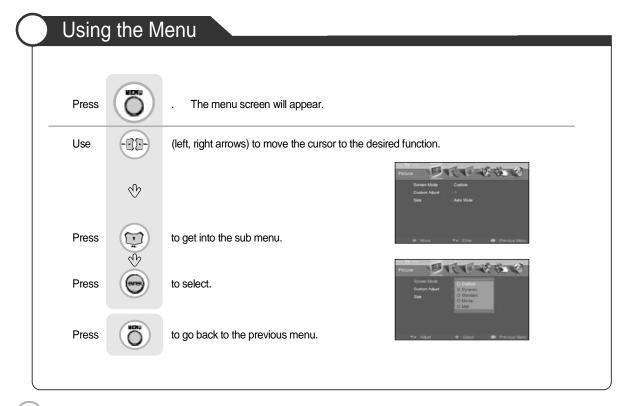
### Initial Settings

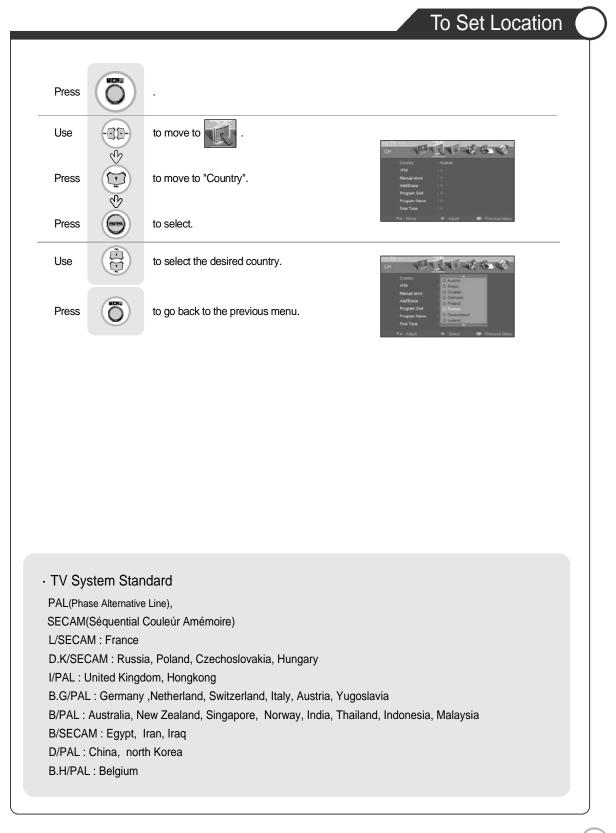
- When the brand new television set it turned on for the first time, following settings can be set using the plug and play function of the TV.
- Press the "Main Power" button of LCD TV and then press the "Standby" button. You will see the Country mode selection menu.

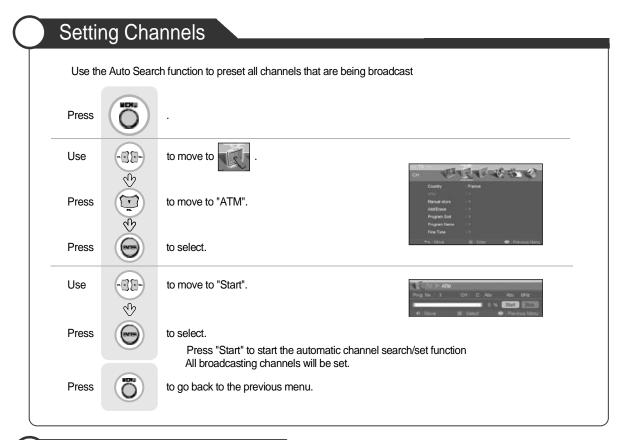
Use		to move to the desired "Country".	Country Col Avenue Bill Bergin
Press		to select. Automatically "ATM" beginning. After "ATM" ends, select the desired Language.	Grantia     Dorman     Forient     Friend     Forient     Forient
Use		to move to the desired "Language".	
Press		to select.	Language Austria Belgie Croatia
Press	Ő	to go back to the previous menu.	Denmark     Finland     France     A: Move     B: Select     C: Ext

		Watching TV
Channel Sele	ction	
	increases the channel.	
	decreases the channel.	
To go back to	the previous channel	
Press	to go back to the channel you were previously viewing.	
Volume Contr	ol	
() m.	increases the volume.	Ør hauns ≪ Algust ● Col
	decreases the volume.	
To turn off on	ly sound	
Use the mute fund	tion to turn off the LCD TV sound for a while, when a ph	one or a bell rings.
Press	button again to hear the sound again.	
		-E
INFO - To che	eck the current state	
Press		Minimus I Alle Somen Mode Cutlers MITS Losters Elsep Tower Off Cutret Time Alle Alle
Display shows use	's setting and selections.	B date Auto Vinte
Press O	button or wait 10 seconds for the display to disappear.	









### To set or erase a channel

Press		
Use	-EE-	to move to .
Press	¢	to move to "Add/ Erase"
Press		to select.
Use	-EE-	to move to "Add" or "Erase".
Press	Ö	to select.
Press	Ö	to go back to the previous menu.

		Changing Picture Settings				
Press		button on the remote control.				
Press	the mode b	uttons on the shown on the screen repeatedly to adjust the settings.				
	Custom	Dynamic -> Standard -> Movie -> Mild				
<ul> <li>Custom : Select to set user's preferences.</li> <li>Dynamic : Select when using the LCD TV in a brightly lit environment.</li> <li>Standard : It is the best screen setting (factory setting).</li> <li>Movie : Select when watching a movie.</li> <li>Mild : Select when using the LCD TV in a dimly lit environment.</li> </ul>						
Cus	tom Pictur	re Adjustment				
Press						
Use	-CC- -CC-	to move to				
_		to move to "Custom Adjust".				
Press	₹					
	₩ ₩	to select.				
Press Press Use						
Press	(h)	to select.				
Press		to select.				

#### **Custom Mode**

- $\cdot$  Brightness : It adjusts the brightness of the image.
- · Contrast : It adjusts the contrast of image.
- · Colour : It adjusts the intensity of the colour.
- Tint : It adjusts the natural tint of the image.
- · Sharpness : It adjusts the clarity of the image.

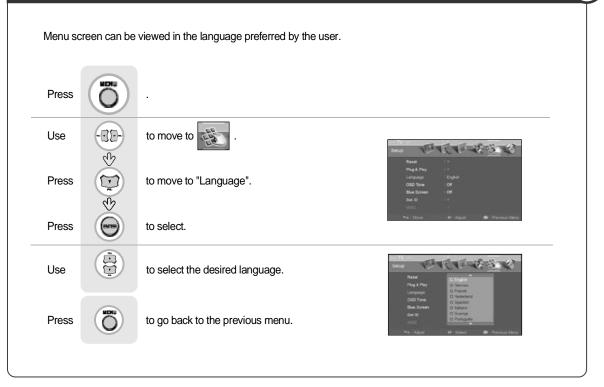
	Changing	Sound	Settings
--	----------	-------	----------

Press		button on the remote control .
Press th	ne mode butte	ons on the shown on the screen repeatedly to adjust the settings.
	Custom	> Standard> Music> Movie> Speech
	1	
<ul> <li>Standard</li> <li>Music : I</li> <li>Movie : I</li> <li>Speech</li> </ul>	d : It is the fla t is preset for t is preset so : It is preset f	n listening to the sound to user's preference. at sound setting with no equalizer effect at all. r music listening. bund for watching a movie. for hearing vocal audio clearly. Adjustment
Press		
Use	-35-	to move to
Press	₹¢ ₹¢	to move to "Custom Adjust".
Press	Ŏ	to select. 💌 Nove 🗴 Deer 🖝 Meana North
Use		to move to the desired category.
Use	-33-	to adjust the setting.
Press	Ō	to go back to the previous menu.

#### **Custom Mode**

- · Volume : It adjusts the sound volume.
- $\cdot$  Balance : It adjusts the volume of speakers on the left and the right.
- · Equalizer : It adjusts the volume by frequency bands and the user can select the desired sound quality.

### Selecting the Menu Language

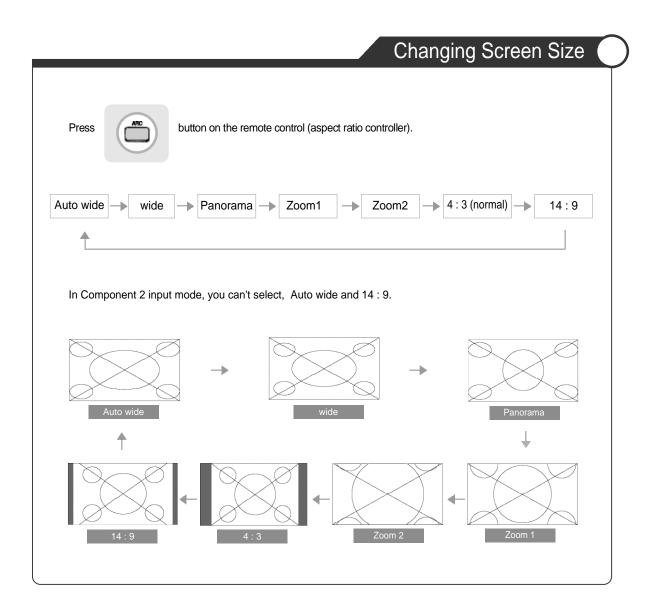


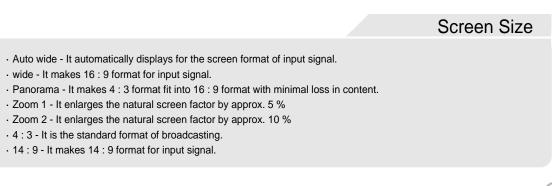
		Setting OSD	Ione Menu Background
Press	Ő		
Use	-52- -72	to move to .	Maria Porter Porter and all
Press	ر ب ج	to move to "OSD Tone".	Mang Ki Pring Langagan Englan 000 Trun Off Burd Dansen Off Sant D I
Press		to select.	🕶 a Chhong 💿 Chigael 💿 Previous Using
Use		to select the "On".	Best Part
Press	Ö	to go back to the previous menu.	Weight of the second

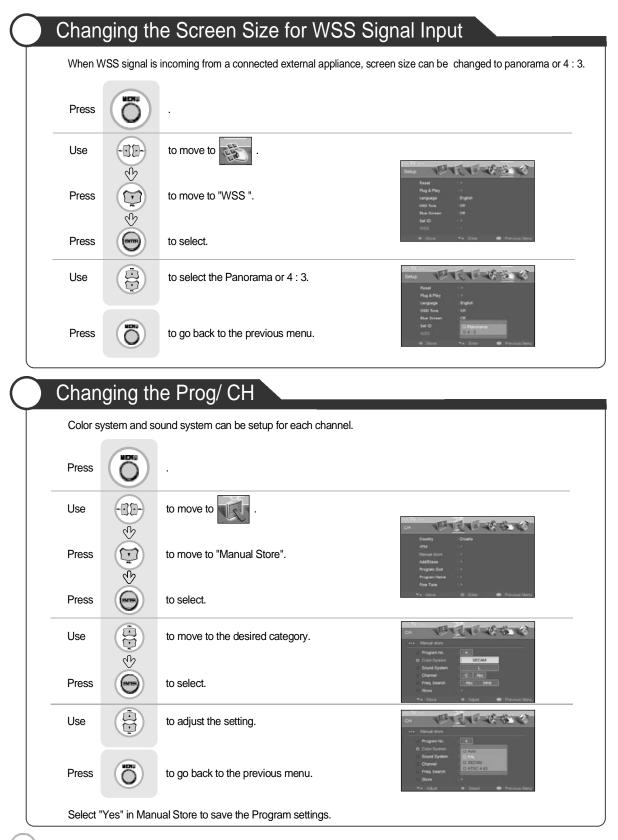
## Setting Blue Background

The LCD TV can be set to display blue screen when no TV signal or signal from other connected appliances are being received. If there is an incoming signal, the blue screen will be replaced by the normal picture screen.

Press			
Use	-32-	to move to	
Press		to move to "Blue Screen".	Reset
Press	₹₽ (mm)	to select.	See 60 i i i Vidu '''''' (Abus) ● Aquet ● Previous Maria
Use		to select the "On".	Sender The The The Sender
Press	Ö	to go back to the previous menu.	Ping A Ring Language Rugist 645 Dave On But Street Sate D Coll Coll Coll Coll Coll Coll Coll Col
			🖛 : Aguet 👄 : Previous Alexa:





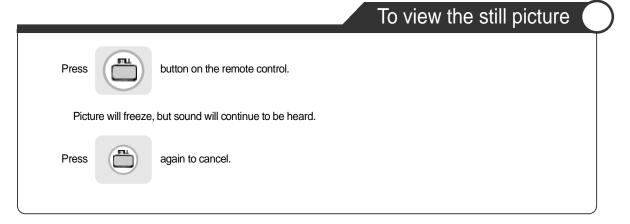


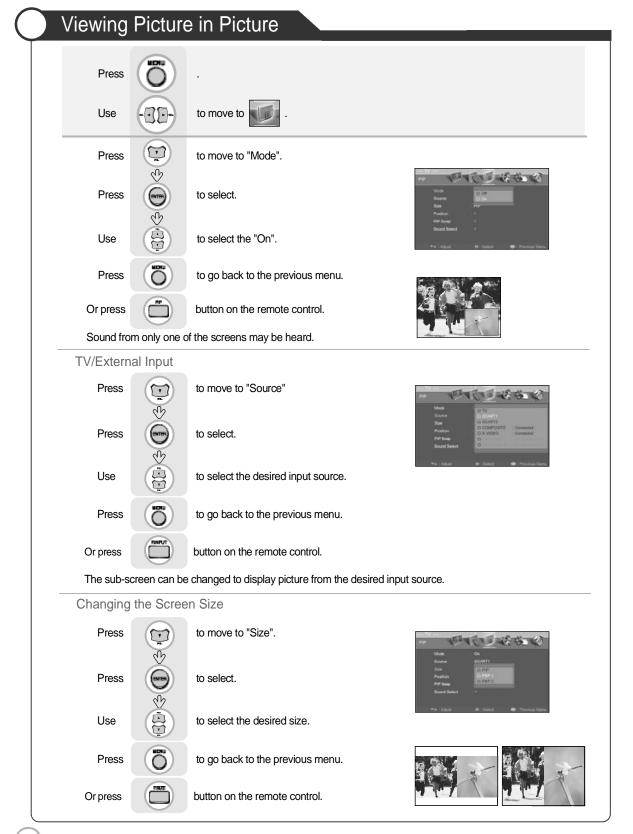
Press Use		to move to	
Press	¢₽	to move to "Program Sort".	CH Country : Creatia ATM :> Manual store :>
Press	\$7 (1)	to select.	Add/Ease :> Program Sout :> Program Name :> Fine Tune :> ™ ▲ : Move IB Enter ● : Previous Menu
Use		to move to the desired Program Number.	Dr Program Ent Program Ent Program Con Program Hone
Press	(Chemical Chemical Ch	to move to the next category.	rr         GR         Anc.           r2         GR         GR           R4         GR         AL           R5         GR         Mod           R6         GR         Mod
Jse	جې (1) د کې	to move to the Preferred Program Number.	Dr Dr an Program Dot 
Press		to sort.	P1         OD         APC           P2         CPR         000         000           P4         CD         JRL         000           P6         CD         JRL         000           P6         CD         JRL         000           P8         MMO         MMO         000
Press		to go back to the previous menu.	

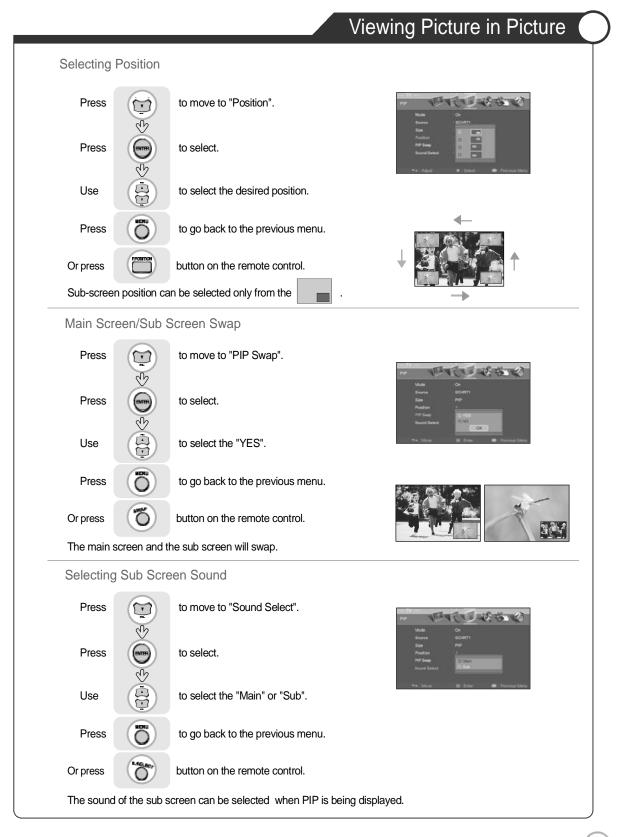


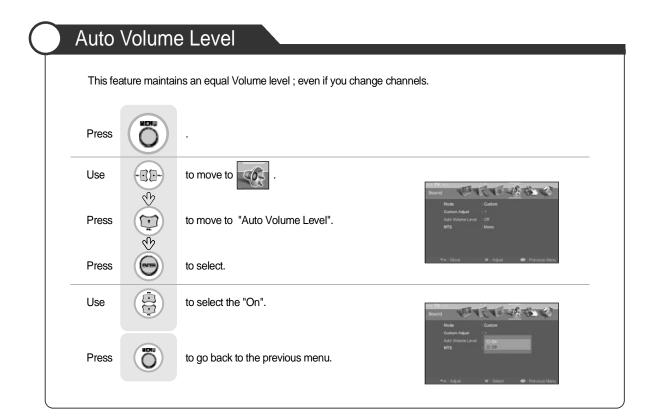
Favorite programs can be stored to make it easier to find. ND40 Press -00-Use to move to PARA BE CO P Press to move to "Program Name". P to select. Press PRECE to move to the desired Program Number. Use P Press to move to program name. PRE CO Use to register program name. Ö Press to go back to the previous menu.

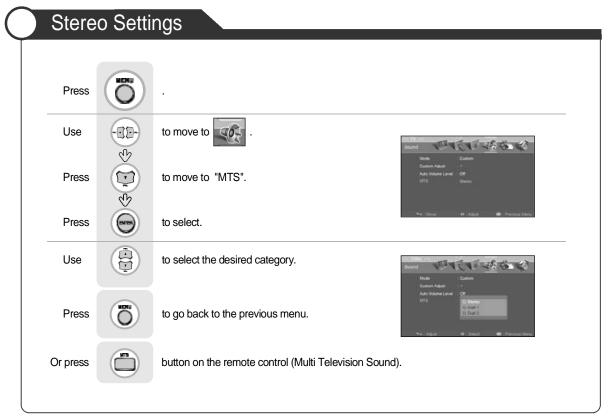
			Adjusting Unclear Screen
Use screer	n fine-tune	controls to adjust the screen when picture	quality is unclear or lines appear.
Press			
Use	-35- CP	to move to .	- 四位下达在公
Press	₹	to move to "Fine Tune".	Country Choastie ATM Marriad solver AddStrave Program Stat Vicinizania I
Press	Ö	to select.	Pon Tana : = ≪a Salana (8) Efter ⊕ Pensona Mara.
Use		to tune.	Original Park Turker      Ann      Annn      Annn      Annn      Annn      Annn      Ann
Press	Ö	to go back to the previous menu.	
To return to	o initial set	tting, use to select "Reset" a	nd press











	NDE		
Press	Ő		
Use		to move to .	Same Porte Contraction of
Press	₹ \$	to move to "Reset".	ng a Prop Language Ringhith GOD Tone Ch Billa Soree Ch Bill a Soree Ch
Press	Ó	to select.	witz
Use		to select the "YES".	Denas
Press		to select.	Pag & Pay Languaja 000 Tama Ban Strees Ch
			Set 10
The LC	DTV will tur	n off. The parameters will be set t	o factory default.
The LC	CD TV will tur	n off. The parameters will be set t	o factory default.
The LC	DTV will tur	n off. The parameters will be set t	o factory default.
The LC	DTV will tur	n off. The parameters will be set t	o factory default.
The LC	DTV will tur	n off. The parameters will be set t	o factory default.
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The LC	DTV will tur	n off. The parameters will be set t	o factory default.
The LC	DTV will tur	n off. The parameters will be set t	o factory default.
The LC	DTV will tur	n off. The parameters will be set t	o factory default.

	Settir	ng Time	2	
T				
	Press	Ö		
	Use	-32- 32-	to move to	Cont. Red And Of The Red And Of The Red And Of
	Press		to move to "Clock".	On Time Program [ Prog 0 On Time Volume [ 0] ▼= 1 Lifere   36] Enter ● Pressure Maria
	Press	C) C)	to move one step.	The Contact of Contact
	Use		to adjust the desired hour.	Or Time Program Program On Time Volume Shore ** Adjust • Precase Mena
	Press	₹	to move one step.	Timer Connect Free do Timer do Timer do Timer do Timer do Timer do Timer
	Use		to adjust the desired minute.	Or There Program     On There Volume
	Press	Ö	to go back to the previous menu.	

## Application

lock tim	e must	be set		
Press				
Use	-35- &	to move to	<u>ک</u>	
Press	₹	to move to des	sired category.	On Time And And On On On Time Anguer On Time Program On Time Volume 0
Press		to select.		🕶 Mong 🐹 Erie 📿 Presina Mong
			Setting Time for Power On	Setting Time for Power Off
Setting H	lour			
Use		to select, to set	on Taxe 🔤 🚾 🛛	09 Tone 200 200 (07)
Setting N	-			
Use	-32-	to select,	On Time All All Of	on Taxa 🔤 🚾 Get
(		to set		
Set/Cano	cel			
Use	-919-	to select,	On Time Reg App Or	04 Time 200 200
(		to select the "On" or "Off"		
Channel	Select			
Use	-313-	to select,	On Time Program Prog 7	
(		to set program		
Volume	Control			
Use	-30-	to select,	On Tree Volume 11	
		to set volume	UN 1108 VOLDE 111	

press

R.EP

button on the remote control.

It automatically turns off the TV after a designated period of time

Depending on the number of times the "Sleep" button is pressed, the TV will be turned off after 30, 60, 90, 120, 150 or 180 minutes.

### Application

### Teletext

#### **Basic Function**

#### TEXT On/Off

- 1. Press "TTX ON" once , then displays the Teletext pages.
- 2. If you press "TTX ON" once more, Text mode is off.

#### TOP TEXT

The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

- Group/Block/Page selection
- 1. With the blue button you can progress block to block.
- 2. Use the Yellow button to proceed to the next group with automatic overflow to the next block.
- 3. With the Green button you can proceed to the next existing page with automatic overflow to the next group.
- 4. The RED button permits to return to previous selection.

#### FLOF TEXT

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

- Page selection
- 1. Press the Index button to select the index page.
- 2. You can select the pages, which are colour coded along the bottom line with the same coloured buttons.

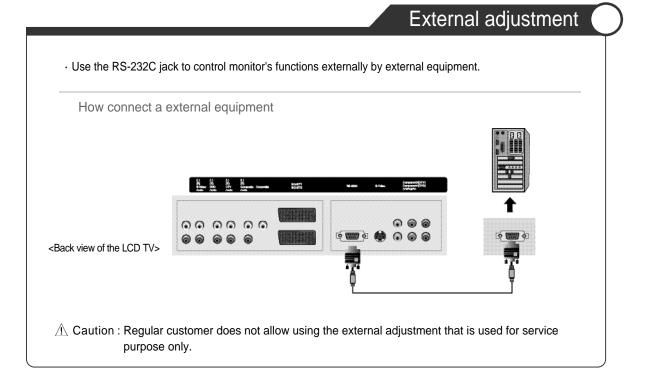
#### Special Teletext Function key

- MIX I in the mix mode display, the underlying video and the teletext page display are both simultaneously visible on the screen. This command turns the display to mix mode and is enabled only in the text mode.
- STORE : This command stores the user defined favorite pages. This command is enabled only if the list mode is active.
- FLOF LIST : This command toggles between list mode and current. Text mode(FLOF, TOP or normal)
- SIZE : Toggle the display page size between double-size top, double-size bottom and normal.
- HOLD : The update of the current display page is halted so that the content will not be changed.
- UPDATE : Press this button to view the updated teletext page.
- INDEX : Return to the index page.
- TIME : When watching a TV program, press this button to display the time at the top right hand corner of the screen.

Press this button again to remove the display.

REVEAL : Press this button to display the concealed information. Such as solutions of riddles or puzzles. RED, GREEN, YELLOW, BLUE-In the TOP/FLOF automatic navigation mode, these keys select and display the linked page.

## External adjustment



			Set ID
Use this	function to ch	noose monitor ID number.	
Press			
Use	-EE	to move to .	San Preter Bart
Press	¢	to move to "Set ID".	Raset Ing a Ring Ung app Exploit GED Tore OF But Some Of Suit O
Press	Ó	to select.	undes . Mari Abboe : Bit Enter : In Previous Menal.
Use		to select the desired ID number.	Bend Read Page Pay
Press	Ő	to go back to the previous menu.	Language English GIOD Tow Ort Bue Sarwan Of Ant Ort Ant Ort Provide Manuel Provide Manuel
The adju	istment rang	e of Set ID is 0 ~ 254.	

## **Special features**

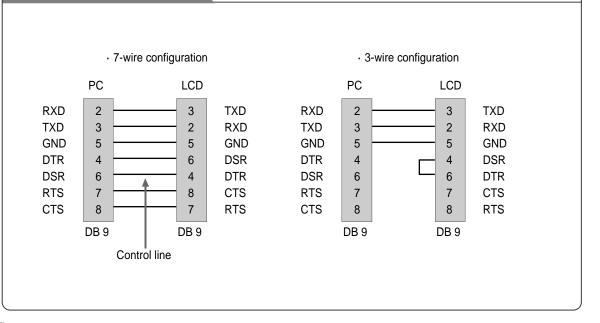
### Type of connector : D-Sub 9-pin male

No.	Pin name		)
_1	No connection	6	)
2	RXD (Receive data)		
3	TXD (Transmit data)		4
4	DTR (DTE side ready)		1
5	GND		
6	DSR (DCE side ready)	Pin NO.4 and Pin	)
7	RTS (Ready to send)	NC.6 must be	)
8	CTS (Clear to send)	connectea on monitor side	
9	No Connection	monitor side	

 $\cdot$  Use a crossed (reverse) cable.

Wire the cable so that each pair of data lines cross between the two devices. These data line pairs are RXD (Receive to send) and TXD (Transmit data), DTR (DTE side ready) and DSR (DCE side ready), and RTS (Ready to send) and CTS (Clear to send).





## RS-232C Communication Protocol

### COMMUICATION PARAMETERS

**Command List** 

BAUD RATE : 9600 bps Data Length : 8bits Parity : None Stop bit : 1bit

ltem	ASCII Code	Data(hex)
1. Power	р	00h~01h
2. Input Source	i	00h~07h
3. Aspect Ratio	r	00h~08h
4. Volume Mute	W	00h~01h
5. Volume Control	V	00h~64h
6. Screen Mode	S	00h~04h
7. Brightness	b	00h~64h
8. Contrast	k	00h~64h
9. Colour	С	00h~64h
10. Tint	t	00h~64h

ltem	ASCII Code	Data(hex)
11. Sharpness	h	00h~64h
12. Information	f	00h~01h
13. Pip On	0	00h~01h
14. Pip Source	u	00h~07h
15. Pip Location	n	00h~03h
16. Pip Sound set	е	00h~01h
17. Pip Mode	d	00h~02h
18. Remote Control O	n j	00h~01h
19. Prog -,+	а	00h~01h
20. Abnormal State	q	00h~01h
21. Sound Mode	у	00h~04h

### Tramsmission / Receiving Protocol List

#### \* Transmission

{Command}{ }{SE	T ID}{ }{Data}{Cr}
{Commad}	To Control Code LCD TV
{ }	"Space , ASCII Code = 0x20"
{SET ID}	You Can Adjust SET ID Setup
	Menu of LCD TV
{Data}	Data Command
	Transmit 'FF' data to data
	read mode
{Cr}	Carriage Return
	ASCII Code 0x0d

#### \* Ok Acknowledge

#### {SET ID}{:}{OK}{x}{Data}{x}

The LCD TV set transmits ASCII based on this format When receiving normal data. At this time, If the data is data read mode, it indicates present status data if the data is data write mode, it returns the data of PC.

\* In case set ID is 0, Ack data doesn't feed back, and you can adjust all LCD set.

External adjustment

## **RS-232C Communication Protocol**

Commands

1. Power : p
To Control Power On/Off of the LCD TV
* Transmission
{p}{ }{SET ID}{ }{Data}{Cr}
Data 0 : Off
Data 1 : On
* Ack
{SET ID}{:}{OK}{x}{Data}{x}
Data 0 : Off
Data 1 : On
Read Power On Source Status * Transmission
{p}{ }{SET ID}{ }{FF}{Cr}
* Ack
{SET ID}{:}{OK}{x}{Data}{x}
Data 0 : Power Off
Data 1 : Power On TV
Data 2 : Power On Scart1
Data 3 : Power On Scart2
Data 4 : Power On Composite
Data 5 : Power On S-Video
Data 6 : Power On Component1
Data 7 : Power On Component2
Data 8 : Power On PC(RGB)

If Other Functions Transmit 0xFF data based on this format, Ack data feeds back present status about each function.

#### 2. Input Source : i

To Input Source Select \* Transmission {i}{ SET ID}{ }Data}Cr Data 0 : TV Data 1 : Scart1 Data 2 : Scart2 Data 3 : Composite Data 4 : S-Video Data 5 : Component1 Data 6 : Component2 Data 7 : PC(RGB)

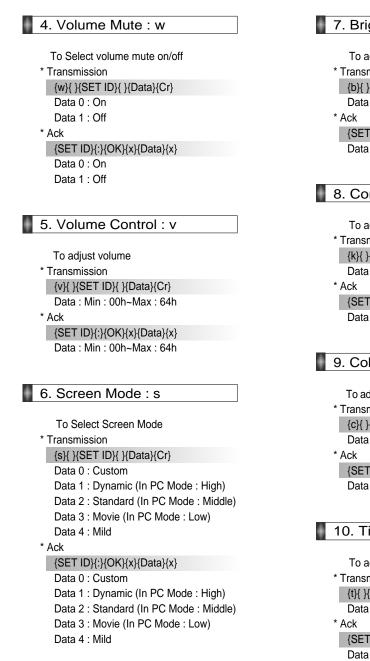
#### \* Ack

{SET ID}{:}{OK}{x}Data}{x} Data 0 : TV Data 1 : Scart1 Data 2 : Scart2 Data 3 : Composite Data 4 : S-Video Data 5 : Component1 Data 6 : Component2 Data 7 : PC(RGB)

#### 3. Aspect Ratio : r

To adjust screen format \* Transmission {r}{ }{SET ID}{ }{Data}{Cr} Data 0 : Auto Wide Data 1 : Wide Data 2 : Panorama Data 3 : Zoom1 Data 4 : Zoom2 Data 5 : 4:3 Data 6 : 14:9 Data 7: 4:3(In PC Mode) Data 8: Wide(In PC Mode) \* Ack {SET ID}{:}{OK}{x}{Data}{x} Data 0 : Auto Wide Data 1 : Wide Data 2 : Panorama Data 3 : Zoom1 Data 4 : Zoom2 Data 5 : 4:3 Data 6 : 14:9 Data 7: 4:3(In PC Mode) Data 8: Wide(In PC Mode

### **RS-232C Communication Protocol**



#### 7. Brightness : b

To adjust Brightness \* Transmission {b}{ }{SET ID}{ }{Data}{Cr} Data : Min : 00h~Max : 64h {SET ID}{:}{OK}{x}{Data}{x} Data : Min : 00h~Max : 64h

#### 8. Contrast : k

To adjust Contrast \* Transmission {k}{ }{SET ID}{ }{Data}{Cr} Data : Min : 00h~Max : 64h {SET ID}{:}{OK}{x}{Data}{x} Data : Min : 00h~Max : 64h

#### 9. Colour : c

To adjust Colour (Not available in PC Mode) \* Transmission {c}{ }{SET ID}{ }{Data}{Cr} Data : Min : 00h~Max : 64h {SET ID}{:}{OK}{x}{Data}{x} Data : Min : 00h~Max : 64h

#### 10. Tint : t

To adjust Tint (Not available in PC Mode) \* Transmission {t}{ }{SET ID}{ }{Data}{Cr} Data : Min : 00h~Max : 64h {SET ID}{:}{OK}{x}{Data}{x}

Data : Min : 00h~Max : 64h

External adjustment

## **RS-232C** Communication Protocol

Commands

#### 11. Sharpness : h

To adjust Sharpness \* Transmission {h}{ }{SET ID}{ }{Data}{Cr} Data : Min : 00h~Max : 64h

\* Ack

#### {SET ID}{:}{OK}{x}{Data}{x}

Data : Min : 00h~Max : 64h

#### 12. Information : f

Information on/off

\* Transmission {f}{ }SET ID}{ }Data}Cr} Data 0 : On Data 1 : Off

#### \* Ack

{SET ID}{:}{OK}{x}{Data}{x} Data 0 : On Data 1 : Off

#### 13. Pip On : o

Pip on/off \* Transmission {o}{ }{SET ID}{ }{Data}{Cr} Data 0 : On Data 1 : Off \* Ack {SET ID}{:}{OK}{x}{Data}{x} Data 0 : On Data 1 : Off

#### 14. Pip Source : u

To Select Pip Source [Not available] (only adjustable when pip mode is activated.) \* Transmission {u}{ }{SET ID}{ }{Data}{Cr} Data 0 : TV Data 1 : Scart1 Data 2 : Scart2 Data 3 : Composite Data 4 : S-Video Data 5 : Component1 Data 6 : Component2 Data 7 : PC(RGB) \* Ack {SET ID}{:}{OK}{x}{Data}{x} Data 0 : TV Data 1 : Scart1 Data 2 : Scart2 Data 3 : Composite Data 4 : S-Video Data 5 : Component1

- Data 6 : Component2
- Data 7 : PC(RGB)

#### 15. Pip Location : n

To Select Pip Position (only adjustable when pip mode is activated.)
Transmission
{n}{ }{SET ID}{ }{Data}{Cr}
Data 0 : Right Bottom
Data 1 : Right Top
Data 2 : Left Top
Data 3 : Left Bottom
Ack
{SET ID}{:}{OK}{x}{Data}{x}
Data 0 : Right Bottom
Data 1 : Right Top
Data 2 : Left Top
Data 3 : Left Bottom

### **RS-232C Communication Protocol**

#### 16. Pip Sound Set : e

To Select Pip Sound (only adjustable when pip mode is activated.) \* Transmission {e}{ }{SET ID}{ }{Data}{Cr} Data 0 : Main Data 1 : Sub \* Ack {SET ID}{:}{OK}{x}{Data}{x}

#### 17. Pip Mode : d

Data 2 : PBP2

Data 0 : Main

Data 1 : Sub

To Select Pip Mode (only adjustable when pip mode is activated.) \* Transmission {d}{ }{SET ID}{ }{Data}{Cr} Data 0 : PIP Data 1 : PBP1 Data 2 : PBP2 \* Ack {SET ID}{:}{OK}{x}{Data}{x} Data 0 : PIP Data 1 : PBP1

## 18. Remote Control On : j

To Select Remote Control on/off \* Transmission {j}{ }{SET ID}{ }{Data}{Cr} Data 0 : PC Control Data 1 : Remote Conroller On \* Ack {SET ID}{:}{OK}{x}{Data}{x} Data 0 : PC Control Data 1 : Remote Conroller On

#### 19. Prog -, + : a

To Adjust Program Number \* Transmission {a}{ }{SET ID}{ }{Data}{Cr} Data 0 : Decrement Program Number Data 1 : Increment Program Number \* Ack {SET ID}{:}{OK}{x}{Data}{x} Data 0 : Decrement Program Number Data 1 : Increment Program Number 20. Abnormal Status : q You Can Read LCD TV Status \* Read Only Mode \* Transmission {q}{ }{SET ID}{ }{FF}{Cr}

- \* Ack
  - {SET ID}{:}{OK}{x}{Data}{x} Data 0 : OK Data 1 : Stanby Data 2 : AC Downr

#### 21. Sound Mode : y

To Select Sound Mode \* Transmission {s}{ }{SET ID}{ }{Data}{Cr} Data 0 : Custom Data 1 : Standard Data 2 : Music Data 3 : Movie Data 4 : Speech \* Ack {SET ID}{:}{OK}{x}{Data}{x} Data 0 : Custom Data 1 : Standard Data 2 : Music Data 3 : Movie Data 4 : Speech

## Trouble shooting

Do not use other functions that are mentioned on this user's manual. It will be main reason of a faulty and motion error.

In case a problem occurs with your LCD TV, please take the following steps first.

If you still have the problem, turn the power off and contact your dealer or an authorized service center.

#### Screen related Matters

Problem	Action
The screen does not appear.	Is the power plug pulled out? Insert the power plug. Turn the main power button on and press the power button of the remote controller.
The screen appears too slowly after the power is turned on.	This problem occurs for a brief time in the process of image elimination processing in order to hide temporary screen noise that occurs when the power is turned on. But if the screen does not come after 1 minute has passed, contact your dealer or an authorized service center.
Screen is too bright or too dark.	Perform brightness adjustment or Contrast adjustment. (Please refer to page 23)
Screen is too large or too small.	Adjust the screen size. (Please refer to page 27)
Stripes appear on the screen and it shakes.	Stop using wireless telephones, hair driers and electric drills.
Simultaneous Screen does not appear.	Check that LCD TV and external equipment are connected. Check the inputs of simultaneous screen by pressing sub-screen selection.
The screen does not move.	Press the "STILL" button. (Please refer to page 31) Check if the Pause button is pressed on external equipment.
Automatic Turn On does not work.	Automatic Turn On function works only when turning the LCD TV off with the remote controller or Standby button.

#### Sound related Matters

Problem	Action	
Screen appears, Voice is not heard	<ol> <li>Press the "Mute"button. (page19)</li> <li>Increase the sound by pressing volume adjustment button.</li> <li>Check if voice terminal of external input is connected properly.</li> <li>Check if audio cables are connected properly.</li> <li>If it is on PIP mode, convert audio of main screen and subscreen by pressing S.SELECT.</li> <li>Select and check the other input. If the sound still does not work and the other channels are the same after you have done as the above, contact your dealer or an authorized service center.</li> </ol>	
Lots of noise (static) occurs.	When connecting a Set-Top-Box, check that it is on stereo broadcasting. If it is, the TV program may not be available or the reception may be bad. Check the audio source with another player. If that source is good, contact your dealer or an Authorized service center.	

## Trouble shooting Tips

#### Others

Problem	Action	
Remote controller does not work.	<ol> <li>Check if main power is On.</li> <li>Check that the batteries of the remote controller were loaded properly.</li> </ol>	
	3. Check to see if any obstacle exists between the LCD TV and the remote controller and remove it, if any.	
	4. If the batteries have no power, replace them with two new batteries.	
LCD TV makes strange noise.	It is the noise when the mechanism expands or contracts from to changes to the environment due to factors such as humidity, temperature, etc. It is not a failure.	
LCD TV indication lamp is On.	The red means the Stand-by power is ON. It will take a few seconds to turn off as the main power is off.	

This LCD TV is for household use and registered as suitable on electromagnetic waves. Therefore, you can use it in every location as well as residential areas.

# Supported Display Modes

### Component Mode $[Y, C_B(P_B), C_R(P_R)]$

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	
720 × 480	15.73	60.00	SDTV, DVD 480i
720 × 576	15.63	50.00	SDTV, DVD 576i
720 × 480	31.47	59.94	SDTV, 480p
1280 × 720	45.00	60.00	HDTV, 720p
1280 × 720	44.96	59.94	HDTV, 720p
1920 × 1080	33.75	60.00	HDTV, 1080i
1920 × 1080	33.72	59.94	HDTV, 1080i

### Specifications

Aspect Ratio	15 : 9		
Screen Size (H × V)	566.4mm × 339.84mm		
Resolution	1280 × 768(Wide XGA)		
Pixel pitch (H × V)	0.4425mm × 0.4425mm		
Displayable Colors	16.7M		
Brightness	450cd/m²(Typical)		
Contrast	500:1		
Color Temperature	9500 <sub>°</sub> K		
Viewing Angle	85。/ 85。/ 85。/ 85。		
Input signal	PAL, SECAM, SD, HD		
Tuner	PAL, SECAM		
AC Input	AC100-240V~, 50/60Hz, 2A		
Power Consumption	140W		
Dimensions/ Weight (H × V × W) (Kg)	TV Only - 818.5 × 434 × 116.5/ 15.2Kg with stand - 818.5 × 488.4 × 215/ 18.3Kg		

The outside design and specification can be modified without any previous notice for improving the performance.

# Maintenance and Service

Memo
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# Maintenance and Service


# Maintenance and Service

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# DIGITAL ART