SAMSUNG COLOR TELEVISION

CS21Z45/21Z47/21Z43/21Z50/ 21Z57/21Z55/21Z58/21AF0/ 21AE0/21AJ0/21AM0/21AD0/ 21BA0/21BE0/21BF0 /21BH0/ 21BM0/21AB0/21AS0/14BK0

Owner's Instructions

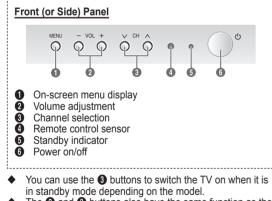
Before operating, please read this manual thoroughly, and retain it for future reference.

Register your product at www.samsung.com/global/register. Record your Model and Serial number.

Model _____
 Serial No. _____

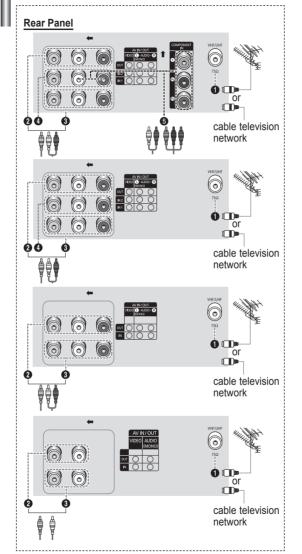
Control Panel (depending on the model)

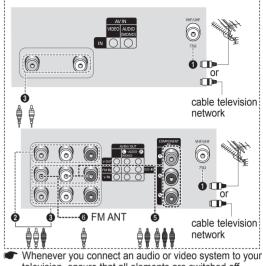
The product color and shape may vary depending on the model.



- The ② and ③ buttons also have the same function as the </ >>/>/
- If the remote control no longer works or you have misplaced it, you can use the controls on the panel of the television.

Connection Panel (depending on the model) The product color and shape may vary depending on the model





- Whenever you connect an addroor video system to you television, ensure that all elements are switched off.
 Please be sure to match the color coded input terminals and
- cable jacks.

Connecting to an Aerial or Cable Television Network

Connect the aerial or network input cable to the \bigcirc (75 Ω coaxial socket). To view television channels correctly, a signal must be received by the set from one of the sources: an outdoor aerial, cable television network, or satellite network. If you are using an indoor aerial, you may need to adjust it when tuning your television until you obtain a picture that is both sharp and clear.

Connecting to the RCA Output

The RCA connectors are used for equipment, such as a recording VCR or audio system.

Connecting to the RCA Input

The RCASC connectors are used for equipment, such as a VCR, DVD, decoder, satellite receiver, video game device, or video disc player. (When using the mono equipment, connect to the AUDIO-L of S input connector.) The RCAS connectors are used for equipment such as a DVD with component output. (480i/576i)

You can press TOOLS button to enter DUAL I-II to choose Mono or Stereo.

Connecting to the FM signal Input

The **()** is used for FM listening,Connect to the FM radio antenna.

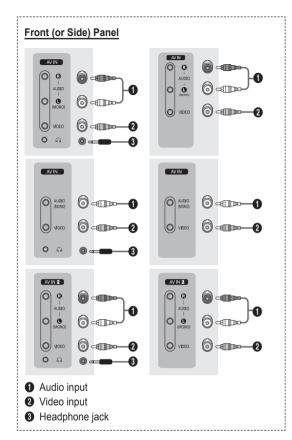
Do not connect RCA Video to FM ANT terminal

<u>continued...</u>

continued...



English - 1



Connecting to the RCA Input

The **(AUDIO-L/R** or **AUDIO**) and **(VIDEO**) connectors are used for equipment, such as a camcorder, video disc player, or video game device.

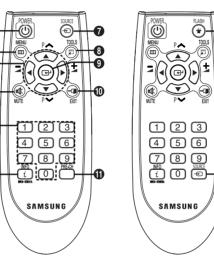
Connecting Headphones

The **(3)** (headphone) iack is used for watching a television program without disturbing the other people in the room. Prolonged use of headphones at a high volume may damage your hearing.

 \succ When both the front (or side) AV and rear connectors are connected to external equipment, the front (or side) AV receives priority.

Remote Control (depending on the model)

> Operation of remote control may be affected by bright artificial light near to the TV



A POWER Used to switch the TV

on and off.

2 MENU

6

Used to display the onscreen menu or return to the previous menu.

8 $\land / \lor / \checkmark / \checkmark$

Used to control the cursor in the menu.

$P \wedge / \vee$

Used to display the next or previous stored channel

+/-Used to increase or decrease the volume.

continued ...

Δ MUTE

Used to switch the sound off temporarily. To turn the sound back on. press the MUTE. + or - button.

Numeric buttons ß Used to select channels directly.

6 INFO Used to view the

channel information and setting status you selected. SOURCE

6 Used to display all of the available video sources.

8 TOOLS (depending on the model) You can check the

following selection by 1. Sleep Timer(Used to select a preset time interval for automatic turn off.)

2. Picture Mode(Used to select the picture effect.)

3. Sound Mode(Used to select sound effect.)

4. Dual I-II(Used to select sound mode)

- 5. Turbo Plus(Used to select the Turbo Plus option.)
- 6. FM Radio(Depending on the model)(used to select FM on or off) 7. Sound Adjust(Used

to display the sound menu)

O ENTER While using the

on-screen menus, press the ENTER button to activate (or change) a particular item.

0 EXIT

Used to exit from any display or return to normal viewing.

6 PRE-CH

Used to switch repeatedly between the last two channels displayed.

P FLASH

With pressing the button, the light on the top of the remote control will be turned on

Installing Batteries Remove the cover. Install two AAA size batteries, then replace the cover. When the remote control does not operate normally, check that the "+" and "-" ends of the batteries are inserted correctly or the batteries are drained.



Do not mix battery types, i.e. alkaline and manganese.

pressing Tools button.

Turning the TV On and Off

Press the "POWER" button or $P \land / \lor$ button, or Numeric button on the remote control. You can also use the " () " button on the TV

 \succ Caution: One pole switch is totally not off (one line still live) if power cord is not unplugged.

Viewing the Menus

- 1 Press the MENU button. The main menu is displayed on the screen. Its left side has five icons: Input. Picture. Sound. Channel. and Setup.
- 2 Press the \blacktriangle or \checkmark button to select one of the icons. Press the ENTER button to access the icon's sub-menu.
- 3 Press the \blacktriangle or \checkmark button to move to items in the menu. Press the ENTER button to enter items in the menu.
- Press the A/V/A/F button to change the selected items. 4 Press the **MENU** button to return to the previous menu.
- 5 Press the **EXIT** button to exit from the menu.

Setup - Plug & Play (depending on the model)

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

1 If the television is in standby mode, press the **POWER** button on the remote control. The message Start Plug & Play. is displayed. To start Plug & Play, press the ENTER button. The Language menu is displayed.

L

- > The Language menu will automatically appear after several seconds, even if the ENTER button is not pressed.
- Select the appropriated 2 language by pressing the ▲ or ▼ button. Press the ENTER button.
 - The Check antenna input. is displayed.
 - > If any language is not selected, the language menu will disappear about 30 seconds later.

continued...

[]] Skip

Plug & Play

Start Plug & Play.

OK

Plug & Play

♦ Move → Enter III Skip

Plug & Play

Check antenna input.

OK

III Exit

- Enter

Language

English

العربية Français

فارسی Indonesia Melayu

Türkce

🕑 Enter

- To search the channels. 3 press the ENTER button. To stop the search, press the ENTER button. When the channel searching has finished the Clock Set menu is displayed.
- Press the ◀ or ► button to 4 move to the hour or minute. Set the hour or minute by pressing the \blacktriangle or \checkmark button.
- 5 When you have finished. press the MENU button. The Enjoy your watching. is displayed, and then the channel which has been stored will be activated.

Re-setting the Plug & Play

Method:

MENU → ▲/▼ (Setup) → ENTER $\rightarrow A/V$ (Plug & Play) → ENTER

TV		Setup
÷.	Plug & Play	•
	Language : Eng	lish 🕨
	Child Lock	
X		
989		
♦ M	ove 🕑 Enter	🖽 Return

Plug & Play
Auto Store
[]
🕑 Enter 🛄 Skip
Plug & Play
Auto Store
P 1 102MHz
7 %
Stop
🖓 Enter 🕅 Skip

Plug & Play

Enjoy your watching.

OK

12:00 an

- Enter

III Skip

Clock Set

Move

▲ Adjust

		-	
Engl	lish	- 3	

Input - Source List (depending on the model)

You can switch between viewing signal from connected equipment. such as a VCR. DVD. set-top box. and the TV source (broadcast or cable)

😴 TV AV1 AV2 Component 1)) V **β**ίβ \succ You can change the required Enter III Return ≜ Move

Source List

source simply by pressing the SOURCE button on the

remote control. It might take a short period of time for pictures to be switched.

Channel - Sort

This operation allows you to change the program numbers of stored channels. This operation may be necessary after using auto store.



- From : Channel number to be changed.
- To : New channel number to be identified.
- Store : Confirmation the exchange of channel numbers.

Channel - Add/Delete

You can exclude channels you have chosen from the channels vou scanned. When you scan through the stored channels, those you have chosen to skip are not displayed. All of the channels that you did not specifically choose to skip are displayed during scanning.



Method:

ENTER : Select Added or Deleted

Channel - Fine Tune

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



Method:

◄/► : You can obtain a sharp and clear picture and good sound quality.

 $\blacktriangle/ \checkmark \rightarrow ENTER$: You can reset the setting.

ENTER : You can memorise adjusted picture or sound.

Channel - LNA (depending on the model)

When a weak broadcast signal causes an unclear, noisy picture. the "LNA" feature improves the picture quality by setting to "On". If you experience noise on a certain noise on a certain channel, set the the "LNA" to "On" or "Off" for this channel, to obtain the optimum picture.



X 141 Move

Method: ENTER : On/Off

Channel - Auto Store

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

Channels are sorted and stored in the order which reflects their position in the frequency range (with lowest first and highest last). The program originally selected is then displayed.



 \succ To stop the search before it has finished, press the **ENTER** button.

When finished, the Sort menu is displayed. To sort the stored channels into the desired numerical order, refer to "Channel -Sort" on page 4.

To exit without sorting, press the **EXIT** button.

Channel - Manual Store (depending on the model)

You can store channels, including those received via cable networks. When storing channels manually, vou can choose:

- Whether or not to store each of the channels found
- The program number of each stored channel which you wish to identify
- **Program** (Program number to be assigned to a channel)
- Color System : AUTO / PAL / SECAM / NTSC4.43 / NTSC3.58 (depending on the model)
- Sound System : BG / DK / Ì / M (depending on the model)
- Search (When you do not know the channel numbers) ٠ The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- Store (When you store the channel and associated program number)
- > If there is no sound or abnormal sound, re-select the sound standard required.



Setting the FM Radio (depending on the model)

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≜ Move

Fine Tune

Store

ource List M Radio

You can listen to FM Radio.

- 1. Press the **MENU** button to display the menu. Press the ▲ or ▼ button to select "FM Radio", then press the ENTER button.
- \succ You can select the options by pressing TOOLS button to use FM Radio function
- 2. Press the MENU button it will display the right window, then press the ENTER button.
- 3. It will display the right window. you can search or store channels .when store channels manually, you can choose the options as follow:
- Program

Program number to be assigned to a channel. when you finish storing and wanting to search next one, you need change to a new number

Search • Add/Delete ♦ Move 🖓 Enter 🛄 Exit Program : Ch 1 Scan 87.50MHz

87.50MHz

♦ Adjust III Exit

🕑 Enter

FM Radio

Input

III Exit



Scan

You can use **◄/**► scans the frequency range from the current channel.

٠ Fine Tune

When the signal is weak or sound has noise, you may fine-tune the channel manually.

- Store Press ENTER to store current channel.
- 4. After FM Radio search finished, then you can press P A / to select your listening.

When you finish your listening, you can press **TOOLS** button and press the ▲ or ▼ button to select "FM Radio", then press \triangleleft / \blacktriangleright to guit FM.

- You can press EXIT button to guit FM.
- This FM Radio model can not support AM listening.
- FM Radio signal's strength depends on user's environment. In weak signal condition, you need to adjust FM antenna's location and direction for finding FM Radio channel. But this TV's FM Radio may not find FM Radio channel in very weak signal condition.

Setup - Time

Clock

You can set the television clock so that the current time is displayed when pressing the INFO button on the remote control. You must also set the time if you wish to use

Time Clock 12:00 am Off Timer --:-- am Off 1)) X Move 🕀 Enter 🎹 Return

the automatic on or off timers

On Timer / Off Timer ٠

You can set the On/Off timers so that the television will switch on or off automatically at the time you select.

- You must set the clock first.
- Auto Power Off

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

Setup - Child Lock

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programs by muting out video and audio. Child Lock cannot be released using front (or side) panel buttons. Only remote control can release the Child Lock



setting, so keep the remote control away from children.

Child Lock : On/Off

If you want to unlock a channel, set to Off.

- Program : Channel number to be locked.
- Lock : When press the ENTER button, the Locked is displayed.
- \succ If any channel is locked, you can not access to the Channel and Child Lock menu by using the control buttons on the TV panel (the Not available is displayed in the Child Lock menu). You can accessby using the remote control only.

Sleep Timer

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

You can select these options simply by pressing the TOOLS button on the remote control to enter Sleep Timer. If the sleep timer is not yet set, Off is displayed. If it is already set, the remaining time before which the television switches to standby mode is displayed.

Setup - Language / Blue Screen

(depending on the model)

Language

It is variable depending on the model. When you start using the television for the first time, you must select the language which will be used for displaying menus and indications.

		_
TV	Setu	ıp
Щ	Language : English Time	
1))	Child Lock	
"	Blue Screen : Off	
X	brac borcen : orr	
ŶţŶ		
\$ M	ove 🕑 Enter 🎹 Ex	ĸit

Blue Screen

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

≜ Move

Picture - Mode

TV O Cont Brig Mode : Dynamic / Standard / Movie / Custom You can select the type of picture which best X corresponds to your viewing 191 requirements. Move \succ You can select these

Mode : Dynamic • ♦ Adjust Return

- options by pressing TOOLS button to enter Picture Mode.
- Contrast / Brightness / Sharpness / Color / Tint (NTSC only) The television has several settings which allow you to control the picture quality.
- Color Tone : Cool2 / Cool1 / Normal / Warm1 / Warm2
- Reset

You can return to the factory defaults. The reset function is set for each mode (Dvnamic, Standard, Movie, or Custom),

Picture - Digital NR / DNIe

(depending on the model)

Digital NR

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

DNIe

This feature bring you more detailed image with detail enhancement, contrast enhancement and white enhancement. New image compensation algorithm gives brighter, clearer, much detailed image to you. DNIe technology will fit every signals into your eyes.

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191

Move

Picture

III Exit

Dynamic

Enter

Sound - (depending on the model) Mode / Adjust / Auto Volume / Turbo Plus

Mode : Standard / Music / Movie / Speech / Custom You can select the type of special sound effect to be used when watching a given broadcast.

TV	5	Sound	
••••	Mode : Standa:	rd 🕨	
	Adjust Auto Volume : Of	E 🕨	
X			
999			
A 14	ove CUEnter III	The state	

> You can select these options by pressing TOOLS button to enter Sound Mode.

Adjust : Bass / Treble / Balance

The television has several settings which allow you to control the sound quality.

- > If you make any changes to these settings, the sound mode is automatically switched to Custom.
- Auto Volume

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

Turbo Plus

This feature suitably emphasizes both higher and lower bands of sound (and includes other effects). You can enjoy more magnificent and dynamic sound when watching music, movie, or other channels.

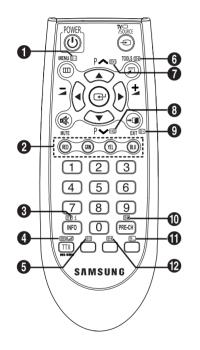
> You can select the options by pressing **TOOLS** button to enter Turbo Plus.

English - 6

Teletext Feature (depending on the model)

Most television stations provide written information services via teletext. The index page of the teletext service gives you information on how to use the service. In addition, you can select various options to suit your requirements by using the remote control buttons.

For teletext information to be displayed correctly, channel reception must be stable. Otherwise, information may be missing or some pages may not be displayed.



1 🗊 (index)

Used to display the index (contents) page at any time while you are viewing teletext.

Colored buttons (red/green/yellow/blue)

If the FASTEXT system is used by a broadcasting company, the different topics covered on a teletext page are color-coded and can be selected by pressing the colored buttons. Press one of them corresponding to the required. The page is displayed with other colored information that can be selected in the same way. To display the previous or next page, press the corresponding colored button.

3 (reveal)

Used to display the hidden text (answers to quiz games, for example). To display normal screen, press it again.

Press to activate teletext mode after selecting the channel providing the teletext service. Press it again to overlap the teletext with the current broadcasting screen.

5 🖽 (hold)

Used to hold the display on a given page if the selected page is linked with several secondary pages which follow on automatically. To resume, press it again.

6 💿 (store)

Used to store the teletext pages.

(page up)

Used to display the next teletext page.

(in the state of t

Used to display the previous teletext page.

9 🗉 (cancel)

Used to display the broadcast when searching for a page.

🛈 🗐 (sub-page)

Used to display the available sub-page.

1 (mode)

Press to select the teletext mode (LIST/FLOF). If you press it in the LIST mode, it switches into the List save mode. In the List save mode, you can save teletext page into list using the $regorement{(store)}$ button.

Press to display the double-size letters in the upper half of the screen. For lower half of the screen, press it again. To display normal screen, press it once again.

Troubleshooting

Before contacting the Samsung after-sales service, perform the following simple checks. If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture

- Check that the mains lead has been connected to a wall socket.
- Check that you have pressed the " O " button (On/Off) and the **POWER** button on remote control.
- Check the picture contrast and brightness settings.
- Check the volume.

Normal picture but no sound

- Check the volume.
- Check whether the volume MUTE button on the remote control has been pressed.

No picture or black and white picture

- Adjust the color settings.
- Check that the broadcast system selected is correct.

Sound and picture interference

- Try to identify the electrical appliance that is affecting the television, then move it further away.
- Plug the television into a different mains socket.

Blurred or snowy picture, distorted sound

• Check the direction, location and connections of your aerial.

This interference often occurs due to the use of an indoor aerial.

Remote control malfunctions

- Replace the remote control batteries.
- Clean the upper edge of the remote control (transmission window).
- Check that the "+" and "-" ends of the batteries are inserted correctly.
- Check that the batteries are drained.

A still image may cause color distortion, but with normal sound(white or highlight image).

- Switch to other channels with moving image, and check if the color turns normal after 5 minutes.
- Turn off the TV, and turn it on after 30 minutes to check the color.

continued...

OSD Map			* : It is variable depending on the model.	
	Source List * FM Radio *	- TV / AV1 / AV2 / Com	nponent	
Picture –	Mode	 Mode Contrast Brightness Sharpness Color Tint (NTSC only) * Color Tone 	 Dynamic / Standard / Movie / Custom Cool2 / Cool1 / Normal / Warm1 / Warm2 	
	Digital NR * DNIe *	Reset – Off / On – Off / On		
	Mode * Adjust * Auto Volume * Turbo Plus *	 Standard / Music / M Bass / Treble / Balan Off / On Off / On 	lovie / Speech / Custom nce	
-	Auto Store Manual Store Add/Delete	 Program Color System * Sound System * Search Store 	- AUTO / PAL / SECAM / NTSC4.43 / NTSC3.58 - BG / DK / I / M *	
- :	Fine Tune Sort LNA*	– Off / On		
-	Plug & Play * Language * Time	– Clock – On Timer – Off Timer		
	Child Lock Blue Screen	 Child Lock Program Lock Off / On 		

Important Warranty Information Regarding Television Format Viewing

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

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

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

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