



COLOR TELEVISION

Owner's Instructions

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

Important Warranty Information Regarding Television Format Viewing

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

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

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying any stationary images that exceed the above guidelines can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming

and images, and primarily display full screen moving images, not stationary patterns or dark bars. On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

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

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Chapter One

Your New TV

List of Features

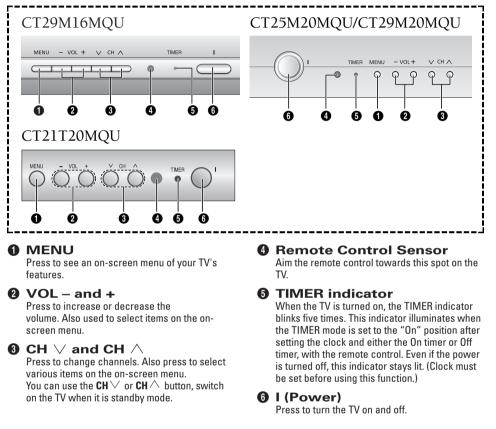
Your TV was designed with the latest technology. This TV is a high-performance unit that includes the following special features:

- Full Flat Screen
- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Adjustable picture and sound settings that can be stored in the TV's memory
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers
- A special sleep timer

Familiarizing Yourself with The TV

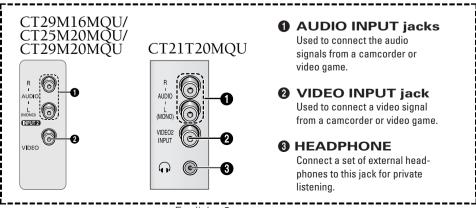
Front Panel Buttons

The buttons on the front panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.



Side Panel Jacks

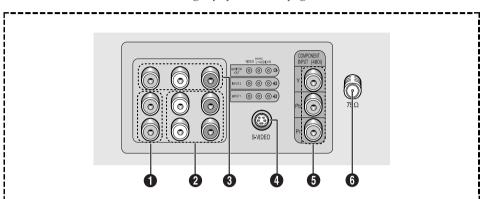
You can use the side panel jacks to connect an A/V component that is used only occasionally, such as a camcorder or video game. (For information on connecting equipment, see page 16.)



Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a DVD player. Because there are two sets of input jacks, you can connect two different A/V components (i.e., a VCR and a DVD, 2 VCRs, etc.)

For more information on connecting equipment, see pages 9 - 15.



1 VIDEO INPUT jack

Video signals from VCRs, DVD players and similar devices.

AUDIO INPUTS (INPUT1 and 2)/DVD AUDIO INPUTS (INPUT 2)

Audio signals from VCRs, DVD players and similar devices.

Use these jacks to connect the audio signals from a DVD player when using the DVD video input jacks. When not using the DVD jacks, these audio jacks function as audio for Video 2 or S-VIDEO.

AUDIO-VIDEO MONITOR OUTPUT jacks

These audio-video signals are identical to A/V signals being displayed on the big screen. (Typically used as the input signals for a recording VCR.)

SUPER VIDEO INPUT jack (CT29M16MQU/CT25M20MQU/ CT29M20MQU)

S-Video signal from an S-VHS VCR or DVD player. Note: In S-Video mode, Audio Output depends what kind of audio input source is connected to the side audio input jacks (AV2).

O COMPONENT VIDEO INPUT jacks

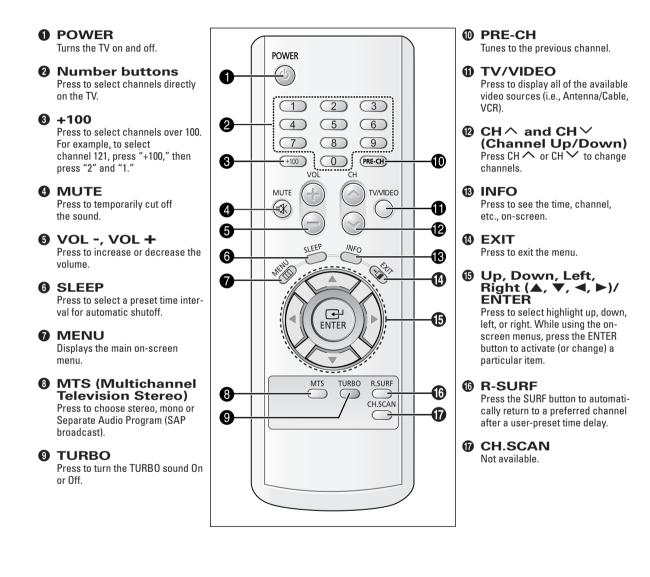
Connect video from a DVD player. Note: Only black and white signals are output from a monitor in DVD mode.

6 VHF/UHF

Connect to an antenna or to a cable TV system.

Remote Control

You can use the remote control up to about 23 feet from the TV. When using the remote, always point it directly at the TV.



INSTALLATION

Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like this, see "Antennas with 300-ohm Flat Twin Leads" below.



If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads", on page next.



If you have two antennas, see "Separate VHF and UHF Antennas", on page next.

Antennas with 300-ohm Flat Twin Leads

If you are using an off-air antenna (such as a roof antenna or "rabbit ears") that has 300-ohm twin flat leads, follow the directions below.

1
Place the wires from
the twin leads under
the screws on the 300-
75 ohm adaptor (not
supplied). Use a
screwdriver to tighten
the screws.2
Plug the adaptor into
the VHF/UHF terminal
on the bottom of the
back panel.

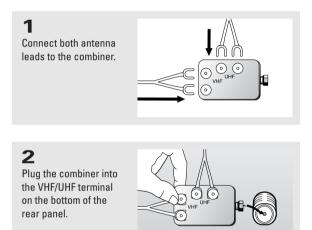
Antennas with 75-ohm Round Leads

1 Plug the antenna lead into the VHF/UHF terminal on the bottom of the back panel.



Separate VHF and UHF Antennas

If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires a an optional combiner-adaptor (available at most electronics shops).



Connecting Cable TV

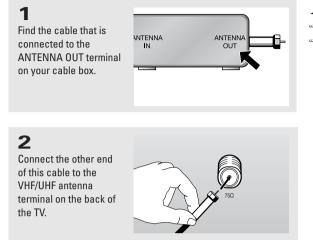
To connect to a cable TV system, follow the instructions below.

Cable without a Cable Box



◄ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

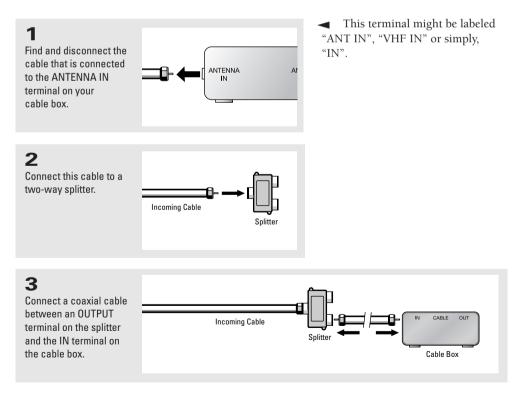
Connecting to a Cable Box that Descrambles All Channels

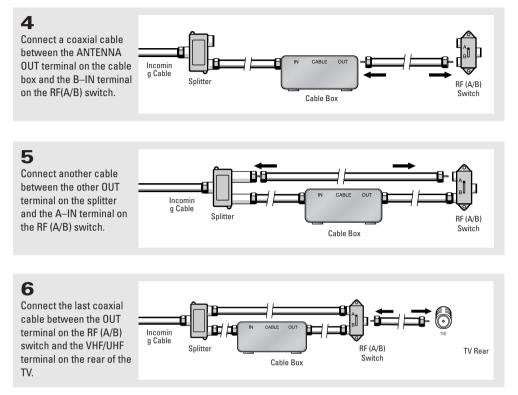


◄ This terminal might be labeled "ANT OUT", "VHF OUT" or simply, "OUT".

Connecting to a Cable Box that Descrambles Some Channels

If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch and four lengths of coaxial cable. (These items are available at most electronics stores.)

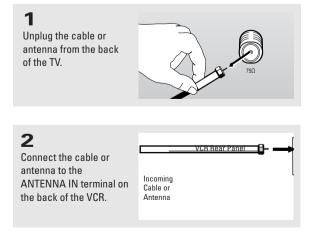


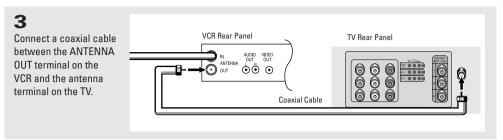


After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

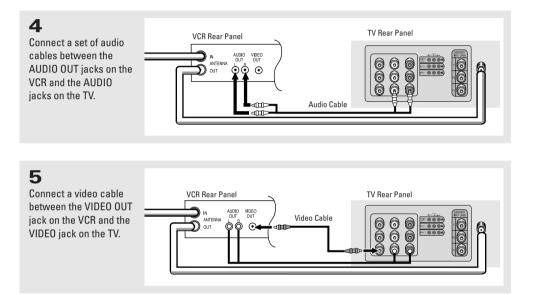
Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 9-11). Skip step **1** if you have not yet connected to an antenna or a cable system.





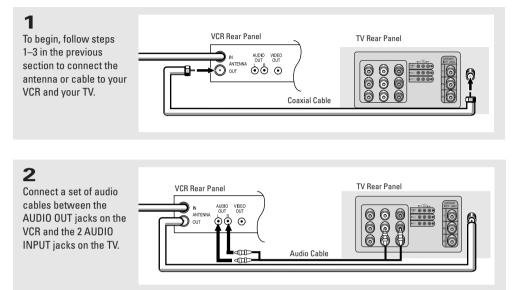
A coaxial cable is usually included with a VCR. (If not, check your local electronics store).



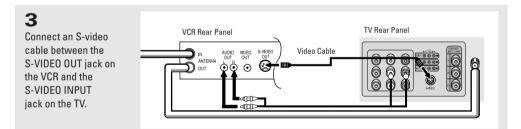
Follow the instructions in "Viewing an External Signal Source" to view your VCR tape. Note: This figure shows the Standard connector-jack panel. The actual configuration for your TV may be different.

Connecting an S-VHS VCR (CT29M16MQU/CT25M20MQU/CT29M20MQU)

Your Samsung TV can be connected to an S-Video signal from an S-VHS VCR. (This connection delivers a better picture as compared to a standard VHS VCR.)



Make sure the jacks you are using are underneath the number "2."

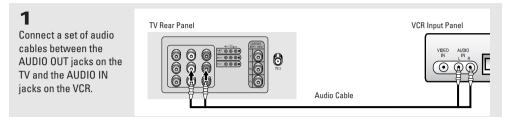


An S-video cable is usually included with an S-VHS VCR. (If not, check your local electronics store.)

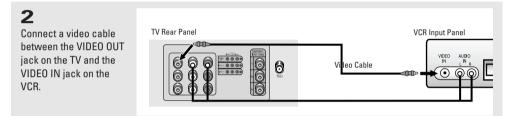
Note: This figure shows the Standard connector-jack panel. The actual configuration for your TV may be different.

Connecting a Second VCR to Record from the TV

Your TV can send out signals of its picture and sound to be recorded by a second VCR. To do this, connect your second VCR as follows:



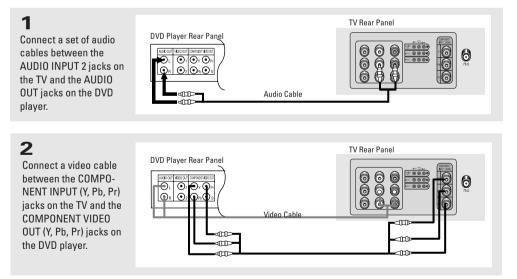
(The VCR input jacks might be either on the front or on back of the VCR.)



Refer to your VCR's instructions for more information about how to record using this kind of connection.

Connecting a DVD Player

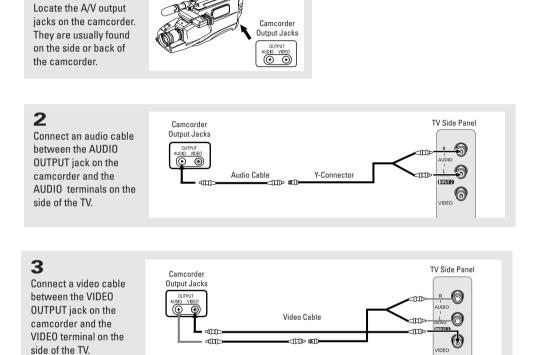
The rear panel jacks on your TV make it easy to connect a DVD player to your TV.



Note: For an explanation of Component video, see your DVD player's owner's manual. Note: This figure shows the Standard connector-jack panel. The actual configuration for your TV may be different. 1

Connecting a Camcorder

The side panel jacks on your TV make it easy to connect a camcorder to your TV. They allow you to view the camcorder tapes without using a VCR. (Also see "Viewing an External Signal Source" on page 35).



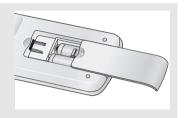
The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your camcorder is stereo, you need to connect a set of two cables.

Installing Batteries in the Remote Control

1 Slide the cover out completely.



2 Install two AAA size batteries.



 Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.



 Remove the batteries and store them in a cool, dry place if you won't be using the remote control for a long time.

The remote control can be used up to about 23 feet from the TV.

(Assuming typical TV usage, the batteries last for about one year.)

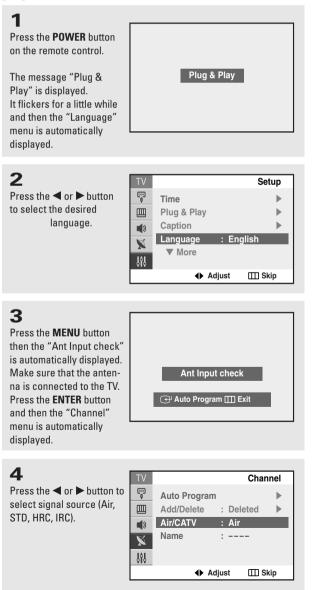
OPERATION

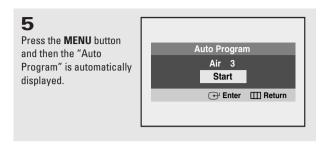
Turning the TV On and Off

Press the "**I**" button (On/Off) on the front of the television. Press the **POWER** button on the remote control to switch the television on. Caution : One pole switch is totally not off (one line still live) if power cord is not unplugged.

Plug & Play Feature

When the TV is initially powered On, five basic customer settings proceed automatically and subsequently: Setting the language, Video signal source, Ant. input check, Auto program and Clock.





6

Press the **ENTER** button to start "Auto Program" or press the **MENU** button to return. (refer to "Auto program" on page 25.) The TV will begin memorizing all of the available channels.



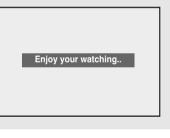
7

Press the ENTER button and then press the ◀ or ► button to move the hour or minute. Set the hour or minute by pressing the ▲ or ▼ button. (refer to "Setting the Clock" on page 30.)

ΤV			Time
	Clock	12 : 00 am	
	On Timer	:-am	Off
()	Off Timer	:-am	Off
X	Sleep Timer	: Off	
	On Timer Vo	lume :10	
រុះ			
•	Move A	djust 🔲	Return

8

When you have finished, press the **MENU** button. The message "Enjoy your watching.." is displayed.



9	TV			Setup
If you want to reset this feature (1) Press the MENU button. (2) Press the ▲ or ▼ button to select the "Setup", then press the ENTER	© ■ ■ × ×	Time Plug & Captio Langua	n age : Er	nglish
button.		Nove	🕂 Enter	III Return
(3) Press the ▲ or ▼ button to select "Plug & Play",				
then press the ENTER				
button. The message "Plug & Play" is dis- played.				

Note: Plug & Play feature doesn't work when in the AV mode.

Viewing the Menus and On-Screen Displays

Viewing the Menus



 The on-screen menus disappear from the screen after two minutes.

2

Use the \blacktriangle and \bigtriangledown buttons to highlight one of the 5 icons. Then press the **ENTER** button to access the icon's sub-menu.

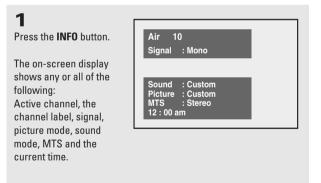
3

Press the **EXIT** button to exit.

 You can also use the MENU, CH and VOL buttons on the control panel of the TV to make selections.

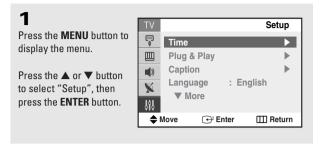
Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.



◀ The on-screen displays disappear after ten seconds.

Selecting a Menu Language





3

Press the ◀ or ▶ button to select the appropriate language: "English", "Español" or "Português".

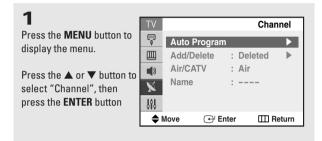
TV			Config	uración
000 \$	Tiemp	00		•
	Plug	& Play		•
()	Subtí	tulos		•
X	Idiom		Españ	ol
ŝŝ	V IV	103		
\$ 1	Nover	Ajust	ie III	Regresar

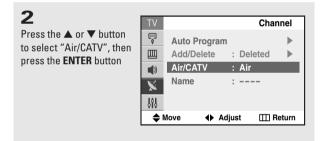
Memorizing the Channels

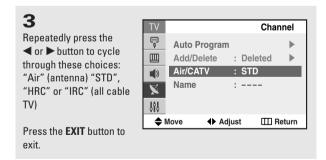
Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH \land and CH \checkmark buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

Selecting the Video Signal-source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).







Note: STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.

At this point the signal source has been selected. Proceed to "Storing Channels in Memory" (next page).

Storing Channels in Memory (Automatic Method)



2

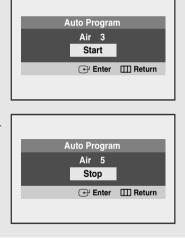
Press the ▲ or ▼ button to select "Auto program" and then press the **ENTER** button. The "Auto Program" is automatically displayed.

TV				Cha	nnel
 9	Auto P	rograr	n		►
	Add/De	elete	:	Deleted	
)	Air/CA	TV	:	Air	
X	Name		:		
ļţļ					
\$ N	love	ΘE	nter	(11) R	eturn

3

Press the **ENTER** button to start "Auto Program". The TV will begin memorizing all of the available channels.

After all the available channels are stored, the Auto program menu reappears. Press the **MENU** button to skip and press the **ENTER** button to stop.



➡ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes.

Adding and Erasing Channels (Manual Method)

First, press the CH \land or CH \checkmark button or the number buttons to select the channel you want to add or delete.

1	TV				Chan	nel
Press the MENU button to display the menu.	e e		Program			
uispiay the menu.		Add/D Air/C/		: D : A	eleted ir	
Press the ▲ or ▼ button to select "Channel", then	X	Name		:		
press the ENTER button.		Nove	ि E	ntor	TTT D	eturn
	<u> </u>	NOVE	ΨE	nier	шк	etum

2	TV				Chan	nel
Press the ▲ or ▼ button	e e	Auto F	Program	1		•
to select "Add/Delete",		Add/D	elete	: D	eleted	
then press the ENTER button.	N	Air/CA	TV	: A	ir	
button.	X	Name		:		
	<u> </u>		_			
	_	Nove	🕀 Er	nter	III Re	turn

3	TV Channel	
Press the ▲ or ▼ button to select "Added" or "Deleted" then press the ENTER button.	Auto Program Add/Delete Air/CATV Name :	
Press the EXIT button to exit.	000 ♦ Move ● Letter Image: Second	

Changing Channels

Using the Channel Buttons

1

Press the ${
m CH}$ ightarrow or ${
m CH}$ ightarrow button to change channels.

When you press CH \land or CH \checkmark , the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

Directly Accessing Channels

Use the number buttons to quickly tune to any channel.

1 Press the number buttons to go directly to a channel. For example, to select channel 27, press "2" then "7". The TV will change channels when you press the second number.

When you use the number buttons, you can directly select channels that were either erased or not memorized.

To select a channel over 100, press the +100 button. (For channel 122, press "+100" then "2" then "2".)

To change to single-digit channels (0–9) faster, press "0" before the single digit. (For channel "4" press "0" then "4".)

Using the PRE-CH Button to select the Previous Channel

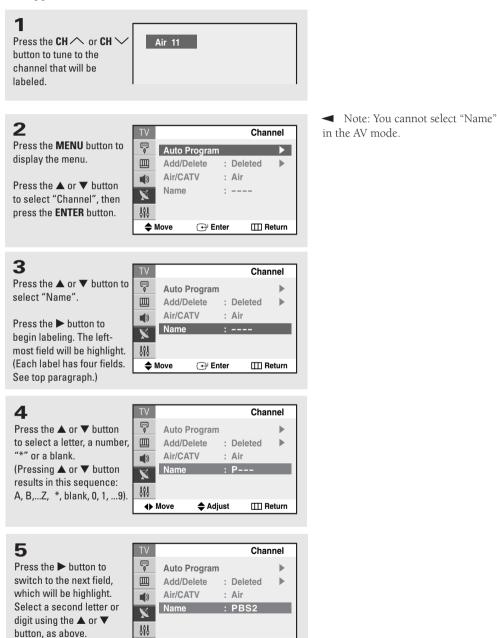
1 Press the **PRE-CH** button. The TV will switch to the last channel viewed.



✓ To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then, use the PRE-CH button to quickly alternate between them.

Labeling the Channels

Use this feature to assign an easy-to-remember label to any channel (i.e., "CBS", "ESPN", "PBS2", "CNN1", etc.). A label consists of four fields, where each field is a letter, a number, "*", or a blank. When the INFO button is pressed, the channel label will appear next to the channel number.



Press the **EXIT** button to exit.

Repeat the process to select the last two digits.

Adjust

III Return

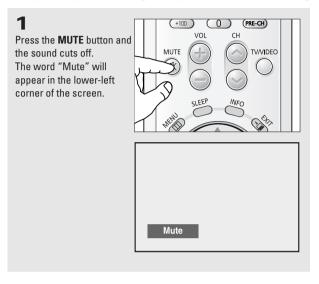
Move

Adjusting the Volume

Press the **VOL +** or – **VOL** – button to increase or decrease the volume.

Using the MUTE Button

At any time, you can temporarily cut off the sound using the MUTE button.



2

To turn mute off, press the **MUTE** button to again, or simply press either the **VOL +** or **VOL** – button.

Setting the Clock

1

Press the **MENU** button to display the menu.

Press the ▲ or ▼ button to select "Setup", then press the **ENTER** button.



2

Press the ENTER button.

Press the **ENTER** button again to select the hours. (the hours digits will be highlighted).

Press the \blacktriangle or \blacktriangledown button repeatedly until the correct hour appears.

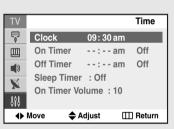
ΤV			Time
 Ģ	Clock 0	9: am	
	On Timer -	- : am	Off
	Off Timer -	- : am	Off
X	Sleep Timer :	Off	
	On Timer Volu	me :10	
٩١٩			
•	Move 🔷 Adji	ust 🖽	Return

 When selecting the hours, be sure to select the proper time of day (am or pm).

You can change the hours by pressing the \blacktriangle or \blacktriangledown button repeatedly (or by holding down either of these buttons).

3

After the hour is entered, Press the ▶ button. (at this point the minutes digits will be highlighted). Press the ▲ or ▼ button to select the correct minutes.



 The time will appear every time you press the INFO button.

After selecting the correct minutes, press the ► button.

Customizing the Picture

You can use the on-screen menus to change the Contrast, Brightness, Sharpness, Color, Tint and according to personal preference. (Alternatively, you can use one of the "Automatic" settings. See next page.)

1	ΤV			P	icture
Press the MENU button to	000 \$	Mode	:	Custom	
display the menu.		Custo	m		•
		Color	tone :	Normal	•
Press the \blacktriangle or \blacktriangledown button	X	Size	:	Normal	•
to select "Picture", then press the ENTER button.	111	▼ Mo	ore		
	\$	Move	🕑 Ente	er 🎞	Return

2

Press the ▲ or ▼ button to select "Custom", then press the ENTER button. (The words Contrast, Brightness, Sharpness, Color and Tint will appear on the screen.)

ΤV				Р	icture
e e	Mode		:	Custom	►
Ш	Custor	n			
	Color t	one	:	Normal	►
X	Size		:	Normal	►
ļ ļļ	▼ Mo	ore			
\$	Nove	ΟI	Ente	er 🆽	Return

3

Press the ▲ or ▼ button to select a particular item, then press the ENTER button.

	TV				Custom
on	000 \$	Contrast	:	80	
	Ш	Brightness	:	50	
		Sharpness	:	50	
	X	Color	:	50	
		Tint	:	G50	R50
	<u> </u>				
	♦ \	love 🕑	Ente	ər	III Return

◄ After adjusting an item, the gauge will automatically disappear (after about 10 seconds).

4

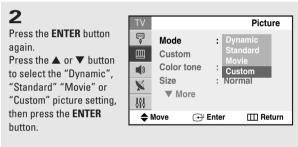
Press the ◀ or ► button to increase or decrease the value of a particular item. For example, if you select "Brightness", pressing the ► button increases it.



Using Automatic Picture Settings

Your TV has three automatic picture settings ("Dynamic", "Standard" and "Movie") that are preset at the factory. You can activate either Dynamic, Standard, Movie or Custom by pressing the P.MODE button (or by making a selection from the menu). Or, you can select "Custom" which automatically recalls your personalized picture settings.

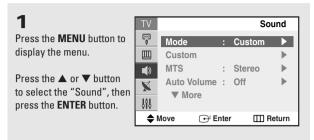
1	TV				Picture	
Press the MENU button to display the menu.	ę	Mode	:	Custo	om 🕨	
uispiay the menu.		Custom		Norm	.↓	
Press the ▲ or ▼ button to select "Picture", then	■ »	Color tor Size	:	Norm		
press the ENTER button.	Įįį	▼ More	े सि Ent	~~	I∏ Return	
	<u> </u>	viove	Ent	er	ш неturn	1

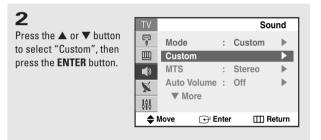


- Choose *Dynamic* for viewing the TV during the day or when there is bright light in the room.
- Choose Standard for the standard factory settings.
- Choose *Movie* when viewing the movie.
- Choose *Custom* if you want to adjust the settings according to personal preference (see "Customizing the Picture", page 29).

Customizing the Sound

You can use the on-screen menus to adjust the bass, treble and balance according to individual preference. (Alternatively, you can use one of the "automatic" settings. See next page.)





TV				Custom
e e	Bass	:	50	
	Treble	:	50	
N	Balance	e :	L 50	R 50
X				
- ŞêŞ				
 ≑ !	Nove	🕂 Enter		III Return
		Treble Balance	Treble Image: state st	Image: Treble : 50 ■ Balance : L 50 ▲

4

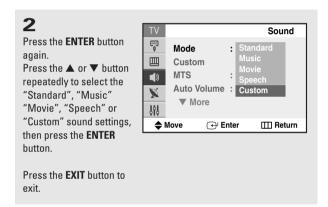
Press the ◀ or ▶ button to increase or decrease the value of a particular item. For example, if you select "Treble", pressing the ▶ button increases it.



Using Automatic Sound Settings

Your TV has four automatic sound settings ("Standard", "Music", "Movie" and "Speech") that are preset at the factory. You can activate either Standard, Music, Movie or Speech by pressing the S.MODE button (or by making a selection from the menu). Or, you can select "Custom", which automatically recalls your personalized sound settings.

1	ΤV				Sou	Ind
Press the MENU button to	000 Ø	Mode		:	Custom	
display the menu.		Custor	m			
	N	MTS		:	Stereo	
Press the ▲ or ▼ button	X		/olume	:	Off	
to select the "Sound", then press the ENTER button.	181	▼ Mo	ore			
	\$	Move	🕑 Ei	nter	r ⊞ Re	eturn



- Choose Standard for the standard factory settings.
- Choose Music when watching music videos or concerts.
- Choose *Movies* when watching movies.
- Choose *Speech* when watching a show that is mostly dialogue (i.e., news).
- Choose *Custom* to recall your personalized settings. (see "Customizing the Sound", page 31).

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".





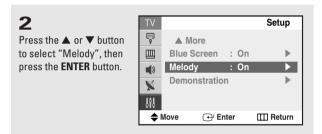
3	TV Setup
Press the ▲ or ▼ button to select Blue Screen "On", then press the ENTER button.	More Blue Screen : Off Melody : On Demonstration
Press the EXIT button to exit.	₩ ♦ Move

✓ Pressing the ▲ or ▼ button will alternate between "On" and "Off".

Setting The On/Off Melody

You can hear clear a melody sound when the TV is powered on or Off.





3	ΤV				Setup
Press the ▲ or ▼ button	 Ø	▲ M	lore		
to select "On", then press		Blue	Screen	: On	•
the ENTER button.	۱	Meloo	ly	Off	
Press the EXIT button to	X I¢I	Demo	onstratio	on On	
exit.	¢I¢	Move	ΘE	nter	III Return

Viewing an External Signal Source

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

Setting the Signal Source



 Quick way to access the external signal source: Just press the "TV/VIDEO" button on the remote control.

2 Press the ENTER button again. Press the ▲ or ▼ button to select signal source, then press the ENTER button. Press the EXIT button to exit.	TV Source List TV AV1 AV2 S-Video Component Move
	AV 1

Assigning Names to External input mode



2

Press the ▲ or ▼ button to select the "Edit Name", then press the ENTER button.

ΤV			Input
000 \$	Sourc	e List: AV1	•
	Edit N	lame	
N			
X			
ļ ļļ			
\$ N	love	🕂 Enter	III Return

3

Press the ▲ or ▼ button to select the Source List, then press the **ENTER** button.

ΤV				Edit N	ame
eo e	AV1		: -		
	AV2		: -		
)	S-Vid	eo	: -		
X	Comp	onent	: -		
J ŶJ					
\$ N	love	🕑 E	nter	E F	Return

4

Press the ▲ or ▼ button to select external device (VCR, DVD, Cable STB, Sat. STB, AV Recv, DVD Recv, Game, Camcorder, DVD Combo), then press the **ENTER** button.

Set other signal sources (AV2, S-Video, Component) using the same method as listed above.

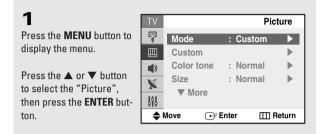


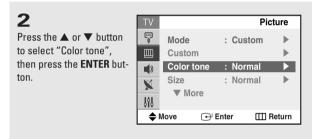


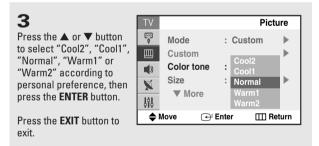
Chapter Four

Special Features

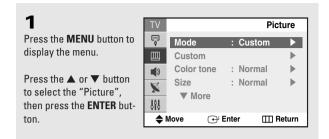
Changing the Color Tone

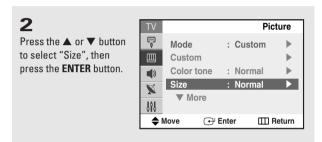


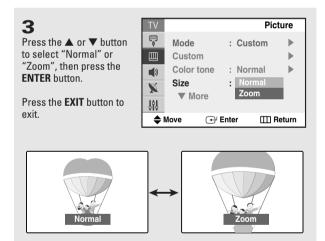




Changing the Screen Size







- Normal (4:3) : Sets the picture to 4:3 normal mode.
- Zoom : Magnifies the size of the picture on screen.

Digital Noise Reduction

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.



DNIe Jr[™] (Digital Natural Image engine) DNIeJr[™] (CT25M20MQU/CT29M20MQU/CT21T20MQU)

Samsung's New Technology enables an improved image with detail, contrast and white enhancement and 3D noise reduction.

1	TV				Pic	ture
Press the MENU button to display the menu.	e e	Mode	m	: (Custom	
Press the ▲ or ▼ button		Color			Normal	
to select the "Picture", then press the ENTER but-	189 189	Size ▼ Mo	ore	: 1	Normal	
ton.		Nove	€	nter	000 R	leturn

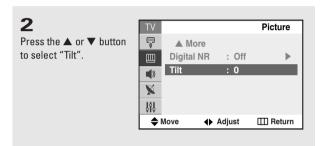


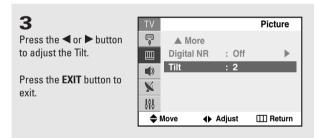
3	DNIe Jr				
Press the ◀ or ▶ button to select "On", then press the ENTER button.		Off	On		
	∢ Adjust	🕂 Enter	III Return		
Press the EXIT button to exit.					

Tilt (CT29M16MQU/CT29M20MQU)

Due to the Earth's magnetic field there may be same minor image tilt depending on the TV's location. When this occurs, follow the steps below.

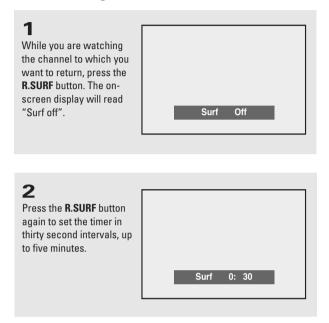
1	TV				P	icture
Press the MENU button to display the menu.	••••••••••••••••••••••••••••••••••••••	Mode Custor		: (Custom	
Press the \blacktriangle or \blacktriangledown button to select the "Picture", then press the ENTER but-	■	Color f Size ▼ Mo			Normal Normal	•
ton.		Nove	🕀 En	ter	· Ш	Return





Using the R.Surf Feature

This feature allows you to set the TV to return to a particular channel after a certain amount of time. For example, you may be watching a channel when commercials start. You can set the R.Surf to "5 minutes", then switch channels. After minutes, the TV will return to the original channel. To use the R.Surf feature:

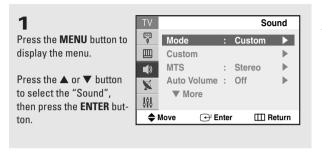


3

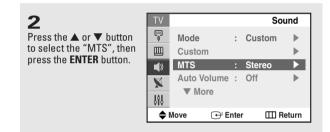
The time you set will begin counting down on the screen. When the time runs out, the TV will return to the channel you were watching when you set the timer.

Choosing a Multi-Channel Sound (MTS) Soundtrack

Depending on the particular program being broadcast, you can listen to Stereo, Mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.)



◄ Quick way to access the MTS: Just press the "MTS" button on the remote control.



3	TV		Sound
Press the ▲ or ▼ button	Mod	e :	Custom
to select "Mono", "Stereo"	Cust	tom	►
or "SAP", then press the	NTS		Mono
ENTER button.	Auto	volume .	Stereo
Press the EXIT button to exit.	↓ ↓ ↓ Move	More	III Return

✓ The text at the bottom of the menu tells you if the incoming audio is Mono, Stereo or SAP.

- Choose *Mono* for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose *Stereo* for channels that are broadcasting in stereo.
- Choose *SAP* to listen to the Separate Audio Program, which is usually a foreign-language translation.

Extra sound settings (Auto Volume, Turbo Sound or Pseudo Stereo)

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

• Auto Volume

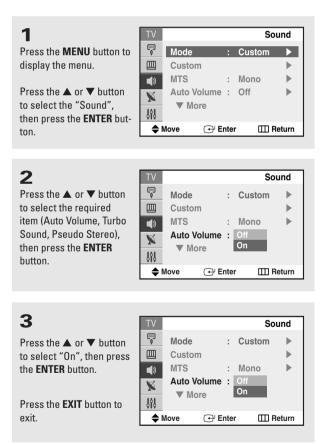
Each broadcasting station has its own signal conditions, which can make it necessary to adjust the volume every time the channel is changed. "Auto volume" lets you automatically adjust the volume of the desired channel by lowering the sound out put when the modulation signal is high or by raising the sound output when the modulation signal is low.

• Turbo Sound

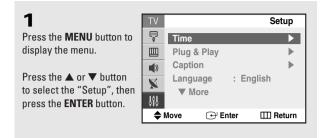
Turbo sound emphasizes the bass and treble frequencies to add fullness to the sound. You can select the turbo sound by simply pressing the "TURBO" button on the remote control.

Pseudo Stereo

"Pseudo Stereo" converts a monaural sound signal into two identical left and right channels. Once the "Pseudo Stereo" is set to "On" or "Off", the setting applies to the sound effects such as "Standard", "Music", "Movie" and "Speech".

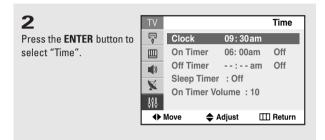


Setting the On/Off Timer



 Before using the timer, you must set the TV's clock. (See "Setting the Clock" on page 30).

When any of the timers are set, the "Timer" LED will illuminate (front panel of TV.)

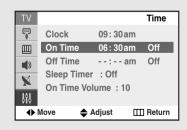


3	ΤV			Time
Press the \blacktriangle or \blacktriangledown button to		Clock	09:30	am
select the "On Time", then		On Timer	06: 00a	am Off
press the ENTER button.		Off Timer Sleep Time	: er :Off	am Off
Press the ▲ or ▼ button repeatedly to select the	<u>لا</u> ۱۹۶	On Timer	Volume :	10
appropriate hours (i.e.,		Move 🔶	Adjust	III Return
the hour when the TV will turn on.)				

4

Press the ► button to select the minutes. (The minutes digits will be highlighted.)

Press the \blacktriangle or \blacktriangledown button to select the appropriate minutes.



SPECIAL FEATURES

5

Press the button to select "On" or "Off".

Press the ▲ or ▼ button to turn the on-timer "On". (Repeatedly pressing the \blacktriangle or \blacktriangle or \blacktriangledown button will alternate between "On" and "Off".)



e

Clock

Time

09:30am

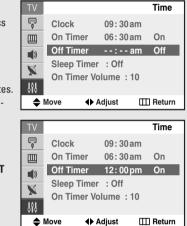
 To deactivate the "On time," select "Off" during this step.

6

To set the Off time, press the \blacktriangle or \blacktriangledown button to select "Off Time".

Press the ► button and set the hours and minutes. (Follow the same procedure as in steps 3~5 above.)

When finished setting the timer, press the EXIT button to exit.

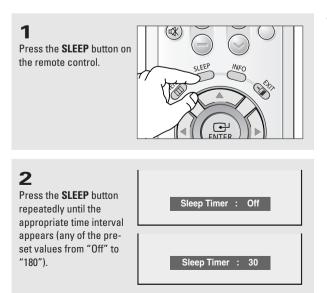


Absent Power Off

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

Setting the Sleep Timer

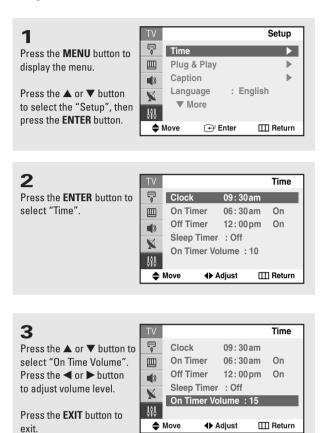
The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).



 After about 5 seconds, the sleep display will disappear from the screen, and the time interval will be set.

Setting the Preferred Volume Level

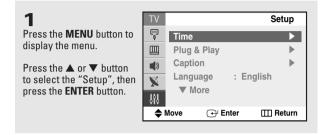
The preferred volume can be set for when the timer automatically turns on the TV.



English - 47

Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging: [CC].





3	TV				Caption
Press the ENTER button, then press the ▲ or ▼ button to turn closed captioning "On" or "Off". Press the ENTER button.	الله الله الله الله الله الله الله	Caption Mode Channe Field	els	Off On : 1 : 1	
	\$ M	ove	🕑 Ent	er	III Return

Caption 4 ę Press the \blacktriangle or \checkmark button to Caption : Off : Ca select "Mode", then press 囸 Mode Text the ENTER button. Channels Press the \blacktriangle or \blacktriangledown button Field : 1 X to select "Caption" or "Text", then press the **J**ŶJ ENTER button. III Return 📥 Move + Enter

 Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.

✓ In "Caption" mode, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture.

In "**Text**" **mode**, information unrelated to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

5

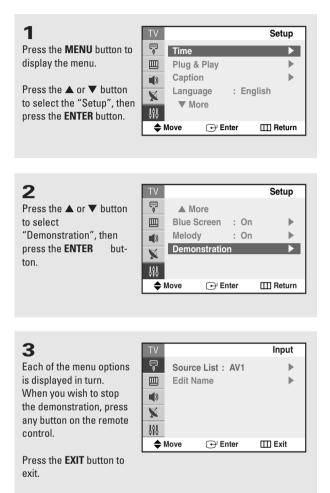
Depending on the particular broadcast, it might be necessary to make changes to "Channels" and "Field": Use the \blacktriangle , \blacktriangledown , \triangleleft and \triangleright buttons to make the changes. (Follow the same procedure as in steps 3~4 above.)

Press the EXIT button to exit.

 Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.)

Viewing the Demonstration

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



If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest service center.

Problem	Possible Solution
Poor picture	Try another channel. Adjust the antenna. Check all wire connections.
Poor sound quality.	Try another channel. Adjust the antenna.
No picture or sound.	Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections.
No color, wrong colors or tints.	Make sure the program is broadcast in color. Adjust the picture settings. If the set is moved or turned in a different direction, the power should be OFF for at least 30 minutes.
Picture rolls vertically.	Adjust the antenna. Check all wire connections.
The TV operates erratically	Unplug the TV for 30 seconds, then try operating it again.
The TV won't turn on.	Make sure the wall outlet is working.

Identifying Problems

Cleaning and Maintaining Your TV

With proper care, your TV unit will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

Placement

- Do not place the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- Place the TV in a vertical position only.

Liquids

• Do not handle liquids near or on the TV. Liquids that spill into it can cause serious damage.

Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

Temperature

• If your TV is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

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.

Model	CT29M16MQU	CT25M20MQU	CT29M20MQU	CT21T20MQU
Voltage	AC100-240 V	AC100-240 V	AC100-240 V	AC100-240 V
Frequency of Operation	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
Power Consumption	150 Watts	130 Watts	150 Watts	120 Watts
Dimensions	766 X 558 X 586/	656 X 472 X 511/	730 X 485 X575/	658 X 487 X 472/
(mm/inches)	30.16 X 21.97 X 23.07	25.83 X 18.58 X 20.12	28.74 X 19.09 X 22.63	25.91 X 19.17 X 18.58
Weight (Kg/ lbs)	41/90.39	29.5/65.04	40/88.19	25.5/56.22
Viewing screen size	676 mm	590 mm	676 mm	508 mm

Specifications

