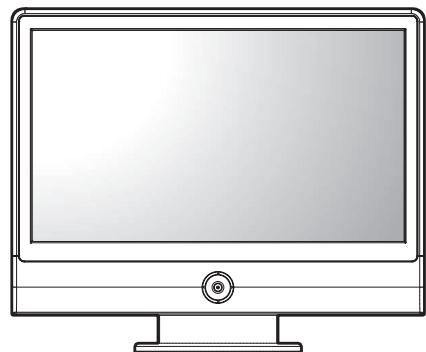
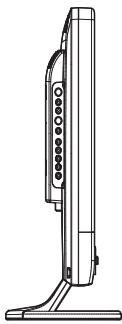


# 20" WIDE TFT-LCD TV

## Owner's Manual





Thank you for buying our 20" LCD TV.

Please take the time to read this manual for the best performance of this TV.

Please keep this manual for future reference.

The present home appliance is certified and approved by EMC/EMI and can be used in all places including residency area. Information in this manual is subject to change without prior notice.

Ver 1.10NE

## Safety Instructions

### Notes & Descriptions

To reduce the risk of fire, electrical shock and other injuries, keep these safety precautions in mind when installing, using and maintaining your TV.

The socket-outlet shall be installed near the equipment and shall be easily accessible.

A Warning that an apparatus with class I constructions shall be connected to a mains socket outlet with a protective earthing connection.

 **Warning** : If you manipulate against the notice, it may cause serious injury or death to user.

 **Caution** : If you manipulate against the notice, it may cause slight injury to user or appliance.



To preserve the Environment do not rubbish.

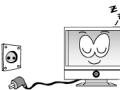
## ⚠ Warning



Disconnect the power cable and signal cable connected to the product in case of thunder or lightning.



Do not attempt to touch its power cord with wet hands.  
If any electric pin is wet or dusty, remove the moisture or dust first before use.



It is recommended to pull out the power cord unless you use it for a long time.



Damaged power cord, plug or unfitted outlet may be very dangerous.



Do not install the set close to any heating sources.



Do not place heavy articles on it or step on the product.



The product should be installed on a clean and dry place.



When you detect any smog, unusual noise or smell, just disconnect the electric power and refer servicing to qualified service personnel.



Do not place any bowl with water, beverage, can or other liquid products on it.



Do not use or place any combustible sprayer or inflammable substances close to the product.

## ⚠ Warning



Do not arrange the power cord close to any heating devices/sources.



Install the outdoor antenna for the set far away from high voltage cables.



When moving it, do not apply any forces on the set.



Do not attempt to disassemble, repair or change the product.  
Whenever you need to repair, adjust or check it, refer servicing to qualified service personnel.



Do not directly spray water or rub it with inflammable substances (thinner or benzene) when cleaning it.



Do not wet or penetrate water over/into the set.



When cleaning the LCD surface, disconnect the power and use a piece of smooth cloth against any scratches on it. Never use wet cloth.

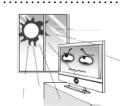
## ⚠ Caution



Make sure to pull out the power cord when cleaning or removing the product.



Ventilation should be always open and the set should be installed in a well-ventilated and wide enough place (a minimum distance away from a wall 10cm or more).



Do not install the set in a place directly exposed to sunlight.

## Available Temperature & Humidity

Operating Temperature	0~40°C
Storage Temperature	-10~50°C
Operating Humidity	10~60% RH
Storage Humidity	10~90% RH

### For dot defect [dead pixel] of LCD ;

TFT-LCD produced by using high-end semiconductor technology with precision of 99.9% above is used for this TV (3,147,264 pixels).

However the pixels of R.G.B. & White color seem to be right sometimes or some of black pixels could be seen on the LCD. This is not from bad quality or functional problem and you can use it without any problem.

### When used as a PC monitor ;

Optimal Resolution: 1280 × 768 @ 60Hz.

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# 1 Before use

## 1-1. Accessories

### 1-2. Panels

### 1-3. Remote Control

### 1-4. Menu Configuration

### 1-5. Jog Shuttle Button

### 1-6. Inserting the Batteries in the Remote Control

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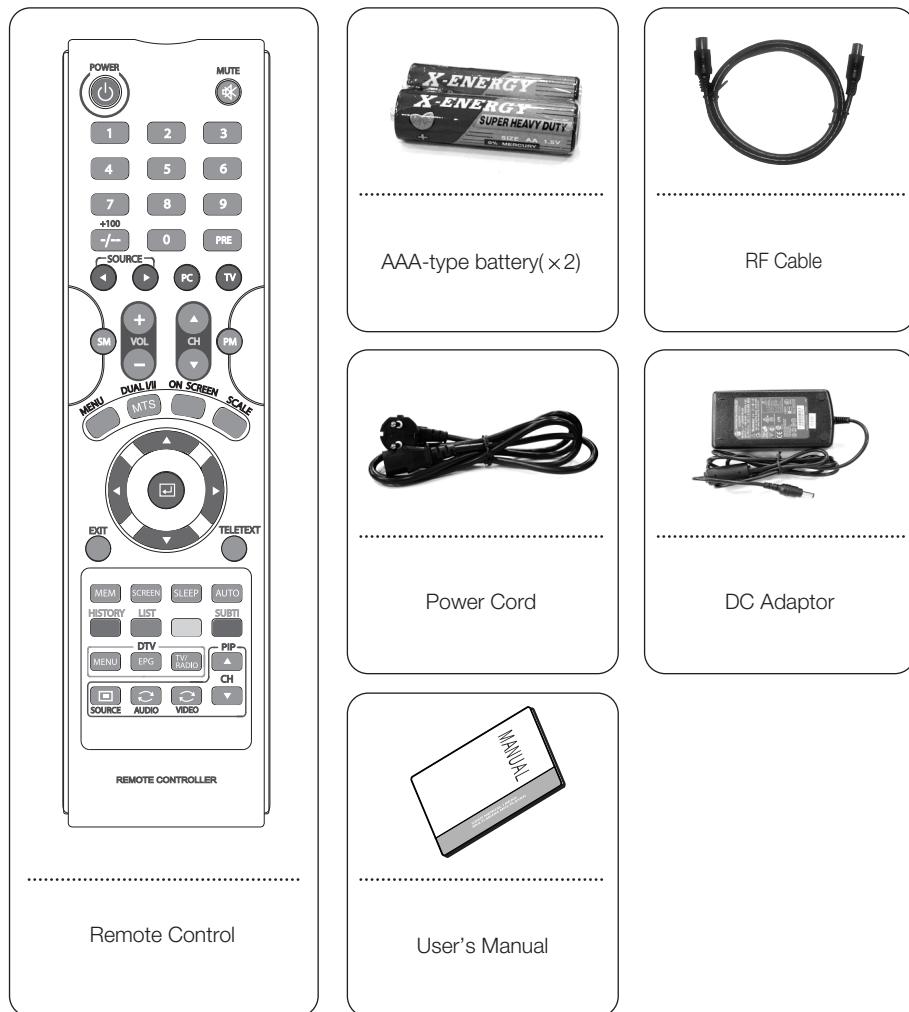
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## 1-1 Accessories

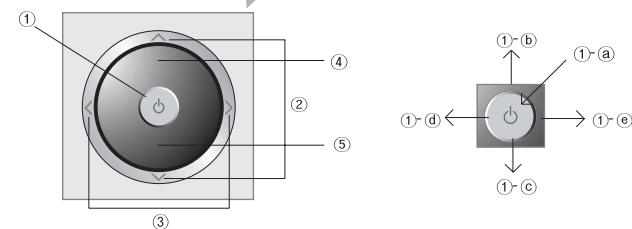
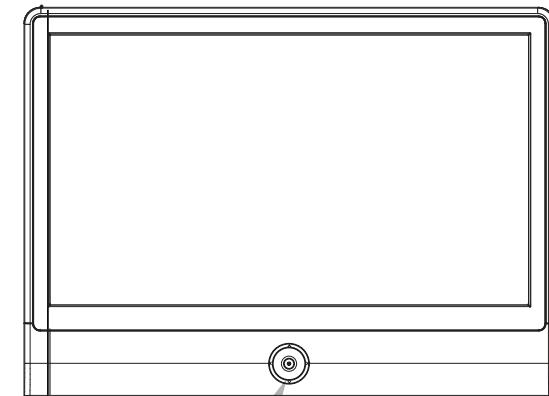
Please make sure the following items are included with your LCD TV.

If any items are missing, contact your dealer.



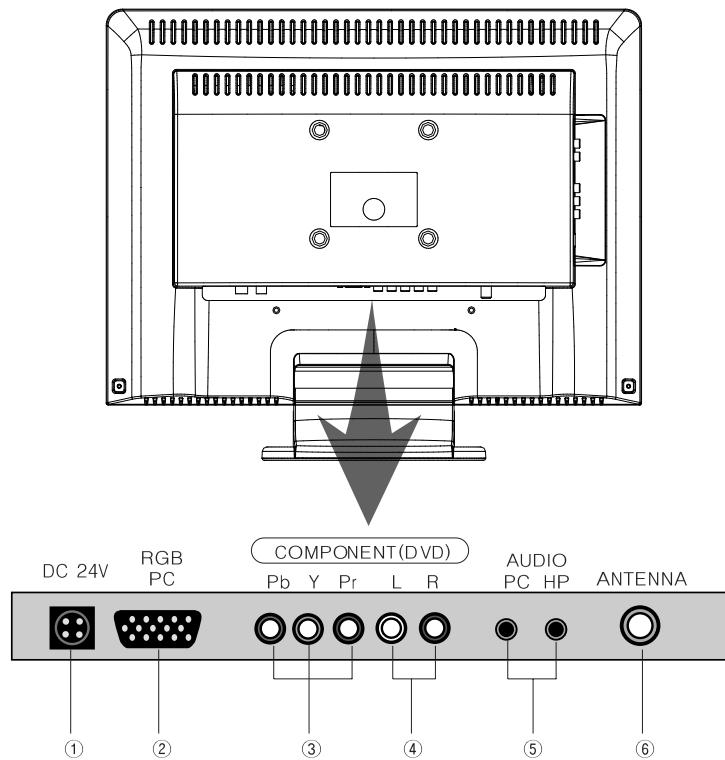
## 1-2 Panels

### I) Front Panels



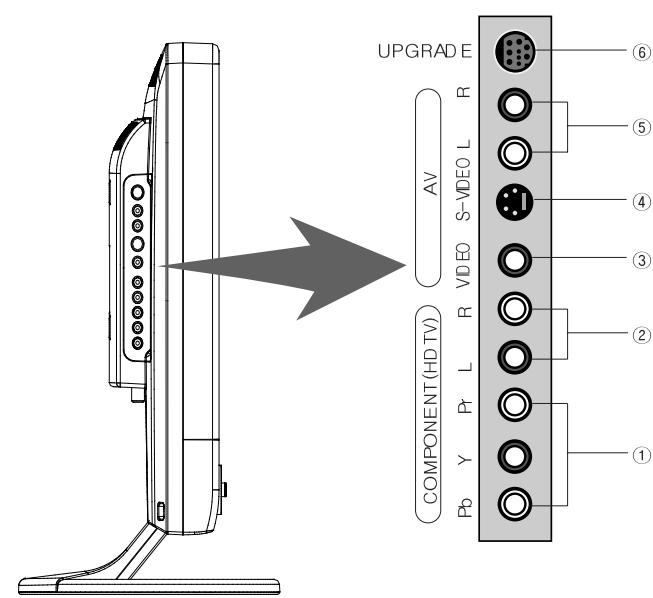
\* Power button is jog shuttle type button and it operates different functions by pushing it to Up/Down/Left/Right.

## 2) Rear Panels



- ① Power Input
- ② PC Input
- ③ COMPONENT (DVD) Video Input
- ④ COMPONENT (DVD) Audio Input
- ⑤ Audio (PC input / Headphone Output)
- ⑥ TV Antenna Input

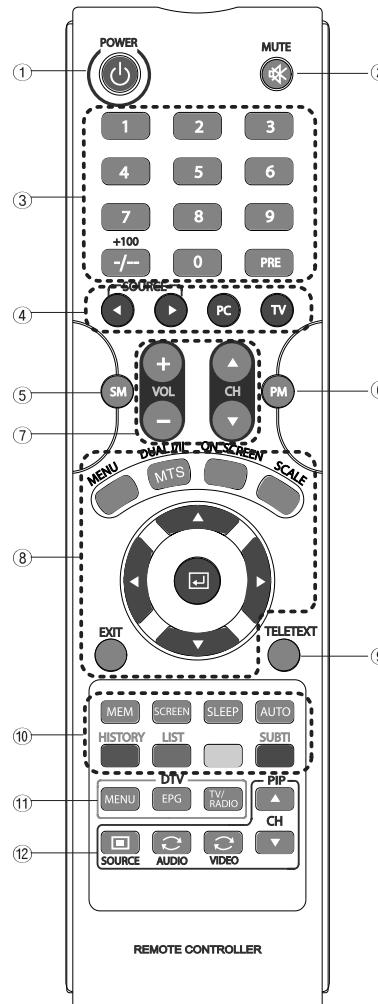
## 3) Side Panels



- ① COMPONENT (HDTV) Video Input (Pb Y Pr)
- ② COMPONENT (HDTV) Audio Input (L R)
- ③ Video Input
- ④ S-Video Input
- ⑤ AV Input (L R)
- ⑥ Upgrade Input

# 1-3 Remote Control

## Functions by remote control buttons



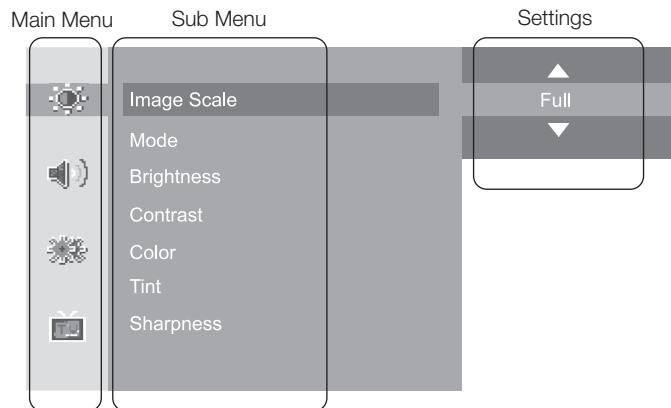
Button	Function	Button	Function
POWER	Power On/Off	MUTE	Sound off Temporarily
0~9	Numeric Buttons.	- / --(+100)	Select channels over 100
PRE	Previous Channel	CH UP/DOWN	Move TV Channels
VOL +/-	Control Volume		
SOURCE(◀/▶)	Input Source selection Botton (PC→S-Video→Video→Full SCART→TV→Half SCART)		
PC	PC Input	TV	TV Input
PM	Control Picture Mode	SM	Control Sound Mode
MENU	Displays the MENU On Screen		
DUAL I/II (MTS)	Choose Stereo, Mono or Secondary Audio Program (SAP broadcast)		
ON SCREEN	Display screen status		
SCALE	Control Picture Scale	EXIT	Exit Main / Sub MENU
▲/▼/◀/▶/↙	MENU settings (Move MENU up and down / Move MENU left and right / MENU Confirmation)		
TELETEXT	Turn ON / OFF Teletext broadcasting		
MEM	Add / Remove a TV CH	SCREEN	Not available
SLEEP	Sleep Timer setting	LIST	Not available
HISTORY	Not available	DTV	Not available
SUBTI	Not available		
MENU	Not available	EPG	Not available
TV/RADIO	Not available	PIP	Not available

※ The remote control provided is available up to 7m from the optical receive part within Left/Right 30 degrees.

## 1-4 MENU Configuration

Most functions of the TV set can be controlled by MENU and selection buttons on the remote control, so learning how to operate them would be convenient for you.

### 1) Menu Configuration



### 2) Using Remote Control



① Press **[MENU]** button to display main menu.



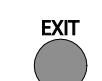
② Press Menu control button (**◀/▶**) to move to sub menu of a selected main menu.



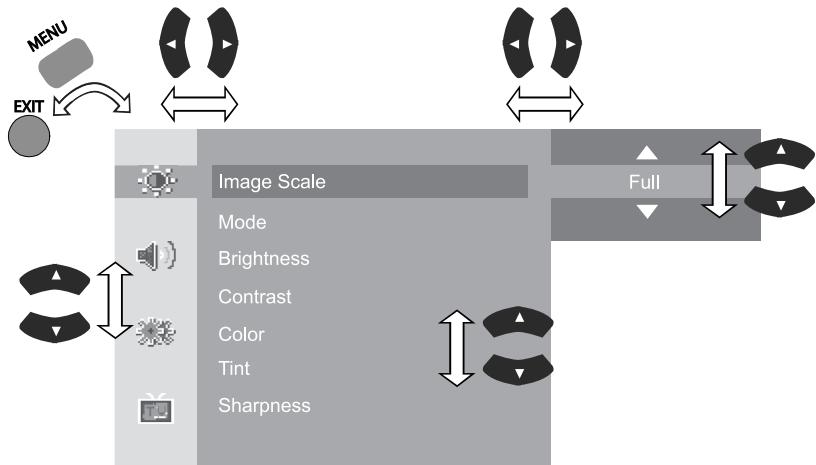
③ To move among menus, use Menu control button (**▲/▼**).



④ To change a selected menu setting, use Menu control button (**▲/▼**).



⑤ Press **[EXIT]** button to return from sub menu to main menu or from main menu to menu removal.



## 1-5 JOG Shuttle Button



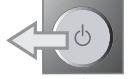
① Push [MENU] button right to display main menu.



② Push it right again to display sub menu.



③ Push [MENU] button left to return to main menu.



④ Push it left again to clear menu.



⑤ Push the button up and down to move among menus.

- If pushing it upward when menu is not displayed, it controls automatic PC settings.
- If pushing it downward when menu is not display, it changes input signals.

## 1-6 Inserting the Batteries in the Remote Control

- ① Remove the cover of the remote control.
- ② Check the polarity of batteries and insert them in right directions.
- ③ Replace the cover.
- ④ Available batteries : 2 DC 1.5V AAA-type batteries

Since incorrect insertion of batteries may cause breakage, leakage or injuries, check the polarities before the insertion.

Separate and collect used batteries for the protection of environment.

Do not use alkaline and manganese batteries together.

# 2 Connection

2-1. Connecting Power

2-2. Connecting TV Antenna

2-3. Connecting PC

2-4. Connecting DVD

2-5. Connecting HDTV

2-6. Connecting VIDEO / S-VIDEO

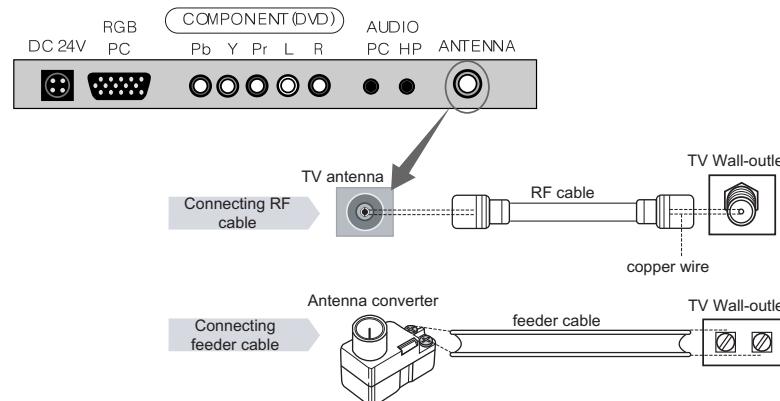
2-7. Connecting Headphone (Speaker)

## 2-1 Connecting Power

- ① The product automatically adjusts voltage.
- ② Power Cable should be firmly connected to an outlet or DC adaptor in order not to be pulled out or shake.

## 2-2 Connecting TV Antenna

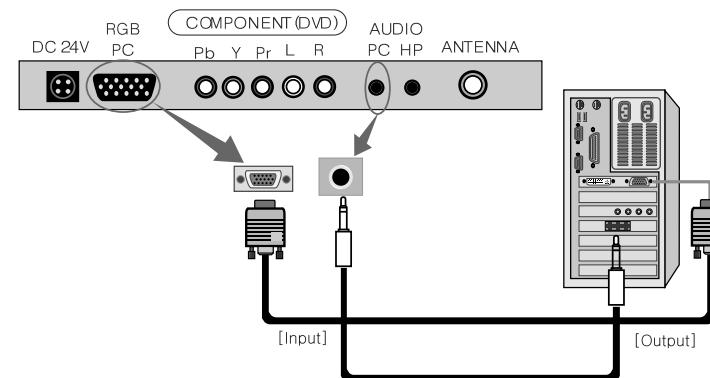
- ① When round cable (75Ω coaxial cable) is used, copper part of the cable should not be bent.



### Cautions

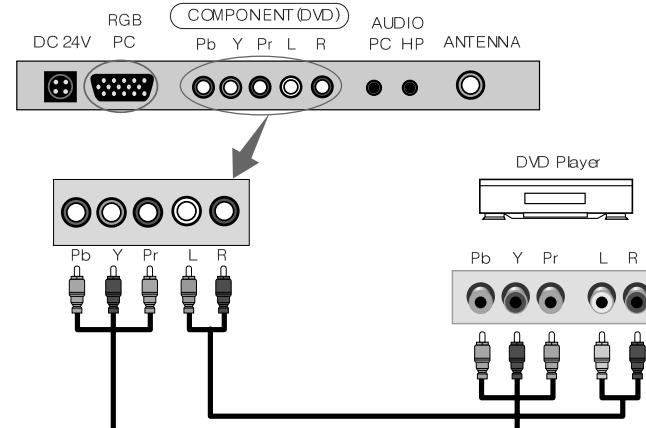
1. When an outdoor antenna is used, it is recommended for a skilled technician to install it.
2. It may be helpful to better display to purchase additional installing amplifier if there is any problem with weak radio wave.

## 2-3 Connecting PC



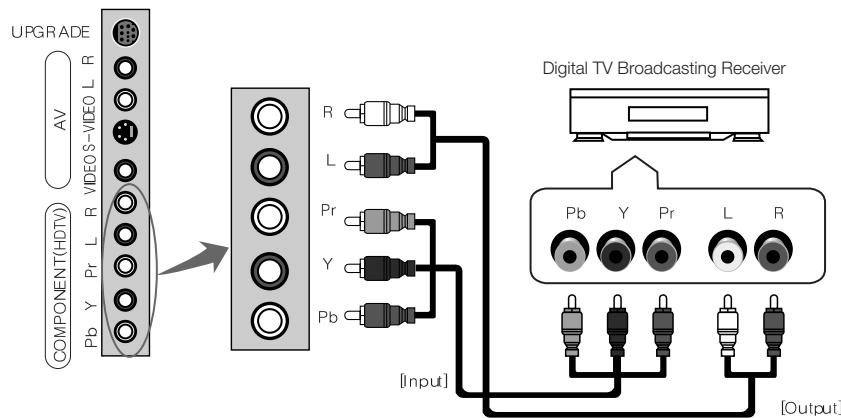
- ① Connect D-Sub Cable to D-Sub port on the TV and PC.
- ② Connect Audio Cable (not included) to Audio output of a PC (stereo jack) and PC Audio Input Port of the TV (stereo jack).

## 2-4 Connecting DVD



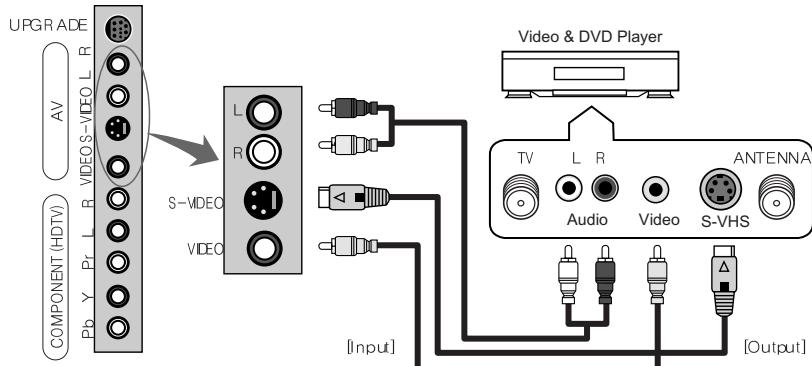
- ① Connect Component Cable (not included) to Component ports of TV and DVD player, VCR, Set-Top box or camcorder.

## 2-5 Connecting HDTV



- ① Connect Component Cable (not included) to HDTV Connection ports of TV (Pb Y Pr) and DTV Receiver.
- ② Connect Audio Cable (not included) to Audio ports (L/R) of TV and DTV Receiver.
- ③ Cables should be connected to ports of the same colors.

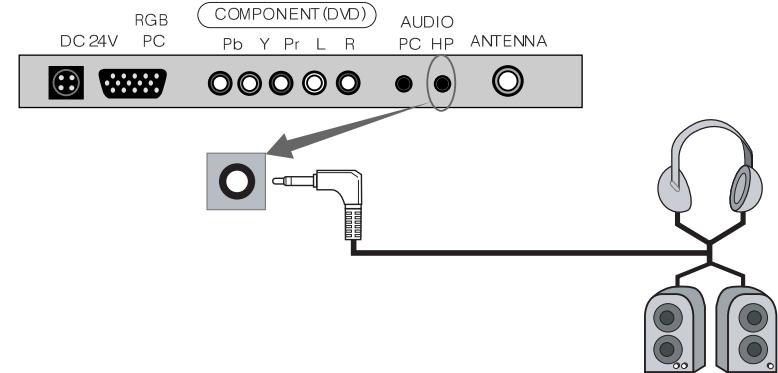
## 2-6 Connecting VIDEO / S-VIDEO Input



- ① Connect Video/Audio Cable (not included) and S-VIDEO Cable to Video port of TV and camcorder, game machines, VCR, DVD player or Set-Top box.
- ② Cables should be connected to ports of the same colors.

- ③ Audio signals of S-VIDEO should be used with external audio signal cables.
- ④ S-VIDEO signal secures better picture quality than composite video signal.

## 2-7 Connecting Headphone (Speaker)



- ① Connect Headphone (not included) to the Headphone output port of the TV.
- ② If possible, use headphones of 8ohms impedance. Otherwise output volume may be too low or too loud.
- ③ In case of connecting to speakers, connect speakers with amps. If connected with speakers without amps, the output volume may be low.

# 3 Using TV Menus

3-1. Watching TV

3-2. Channel Search & Fine Tune

3-3. Add/Remove Channel

3-4. Channel Swap

3-5. Change TV Channel Mode

3-6. Closed Caption

3-7. V-Chip Function

## 3-1 Watching TV

### 1) Precautions in the initial installation

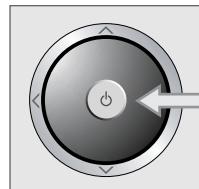
- ① Check whether TV antenna cable is properly connected.
- ② After checking whether the voltage is 100V or 220V, supply the electric power and connect the adaptor to the TV.  
At the moment, TV is in standby.

### 2) Turning on TV

- ① Turn on the [POWER] button directly on the set or by remote control.
- ② Each pressing the button turns on or off the set.



Power Button on Remote Control



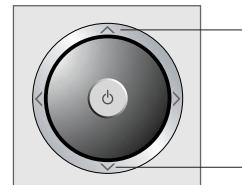
Power Button on the TV Set

### 3) Channel Selection

- ① Press [CH] button (▲/▼) on the remote control to change channels.
- ② Press numeric buttons (0~9) to go to a channel directly.
- ③ Press [CH] buttons (▲/▼) on the TV set to increase or decrease TV channels.



Channel button on the remote control



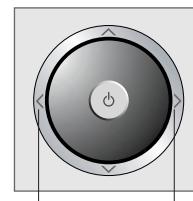
Channel button on the TV set

### 5) Volume Control

- ① Increase/decrease volume by pressing [VOL] button (+ / -) on the remote control.
- ② Press [VOL] button (+ / -) on the TV set to control the volume.



Volume Button on the remote control



Volume Button on the TV Set

### 4) Move to Previous Channel



Previous Channel Button

- ① Every time pressing the [PRE] button on the remote control, it moves to a previous channel.

### 6) Mute



MUTE button on the remote control

- ① Press [MUTE] button on the remote control to sound off temporarily.
- ② Press it again to turn the sound back on or press volume buttons.



Broadcasting Info Button

### 7) Checking the present broadcasting information

- ① Press [ON SCREEN] button on the remote control to display the information on the screen.
- ② Press it again to remove the information except input source automatically.
- ③ Press it again to remove all information.

## 8) Selecting the Sound Mode



① You can select a sound setting among <Standard>,<Music>,<Movie> <News> or <user>.

## 9) Setting Multi-Channel Sound (MTS)

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

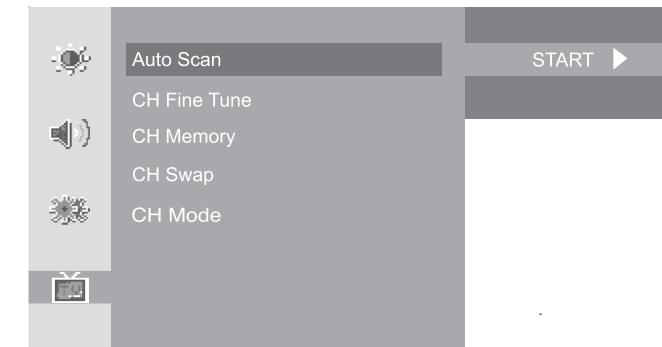


① Press the **MTS** button.  
② Each press of the **MTS** button cycles through <Mono>,<Stereo> and <SAP>.

**Stereo** : Choose Stereo for channels that are broadcasting in stereo.

**Mono** : Choose Mono for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.

**SAP** : Choose SAP to listen to the Secondary Audio Program, which is usually a foreign-language translation.



## 2) Fine Tuning Channel Reception

If a searched channel is unclear or sounds abnormally, use Fine Tune function.

- Press **MENU** button and move to <CH Fine Tune> menu.
- Set the best status with **▲/▼** button on the remote control.
- Once the setting is complete, exit from menu.



## 3-2 Channel Search & Fine Tune

When using the TV first after purchase, reconnecting it due to power failure or other reasons, channels should be searched and registered again.

Since Channel Search function searches channels currently broadcasted, you should execute it when most channels are broadcasted.

### 1) Channel Search

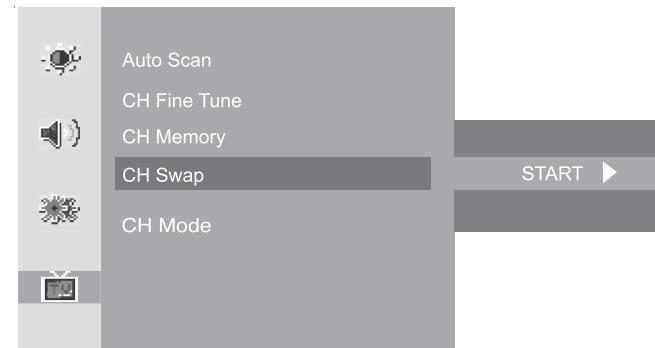
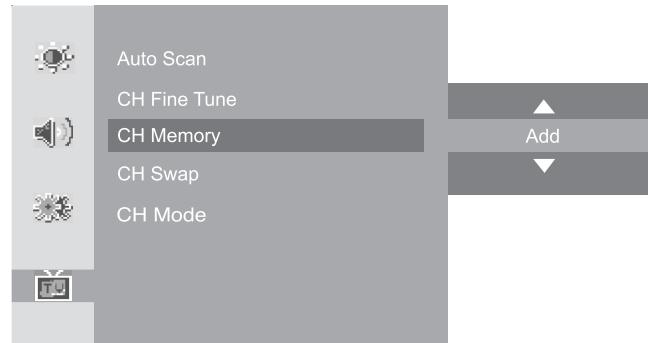
- Press **MENU** button on the remote control.
- Once you move to Start by using **▶** button on the remote control, it starts channel search.
- To stop channel search, repress **MENU** button on the remote control.
- If you stop it during channel search, it stores the currently searched channels only.
- Also, it can be set in OSD menu if JOG button is used.

### 3-3 Add/Remove Channel

You may add or remove a channel as your need.

MEM

- Move to a channel to add or remove by pressing numeric buttons(0~9) or **CH** button.
- Press **MEM** button on the remote control.
- In case of adding a channel by using **↔** button on the remote control, move to Add.
- Also, it can be set in OSD menu if JOG button is used.



### 3-4 Channel Swap

In case of channels frequently watch, you can switch it to other channel numbers and store them.

- Move to a channel to change.
- Press **MEM** button on the remote control and move to <CH Swap> menu.
- Set both channels that you are watching and want to swap.
- Change the default and escape the menu.

### 3-5 Change TV Channel Mode

Please choose your TV input type by selecting either Air or Cable.

If set as Air, some cable broadcast stations will not be displayed.

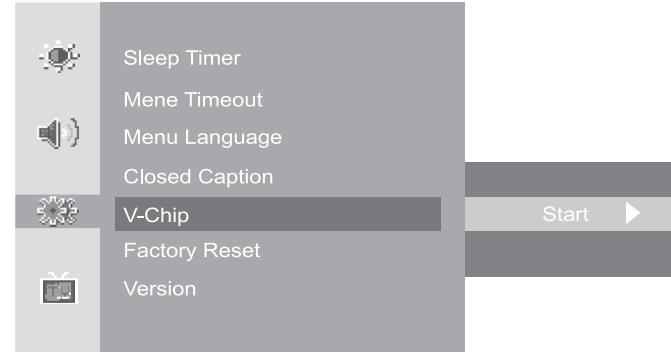
- Press **[MENU]** button on the remote control and move to <CH Mode> menu.
- Set the CH Mode between Air & Cable by using **CH** button on the remote control.
- Once the setting is complete, press **[MENU]** button.
- Also, it can be set in OSD menu by using JOG button.

## 3-7 V-Chip Function

This function deals with MPAA rating of TV broadcast and other media.

It works only with V-Chip function broadcast and media.

- Press **[MENU]** button on the remote control and move to <V-Chip> menu.
- Set the V-Chip menu by using button on the remote control.



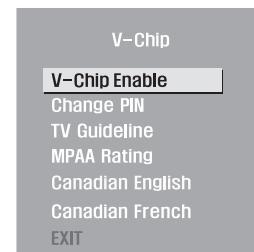
※ Default V-Chip PIN is 0000.

※ Please change PIN as yours when you install.

- Press **[VOL]** button and enter Password.
- Press pin number using the remote control.
- A number can be deleted with left volume button when using it.



- Set V-Chip function by using **[VOL]** button on the remote control.



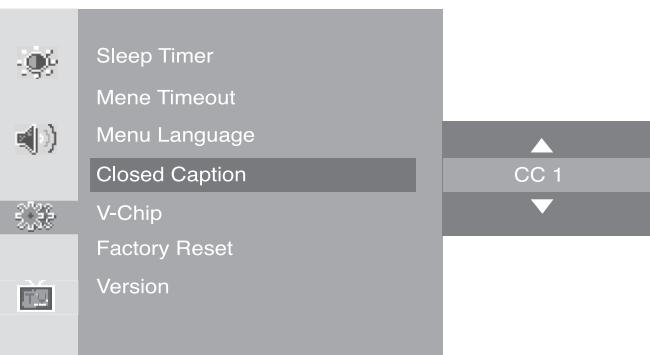
## 3-6 Closed Caption

This function works only with caption broadcast or other CC marked video tape and DVD title.

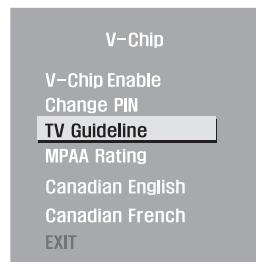
Set the function in the SETUP menu.

Caption can be set only by using the remote control.

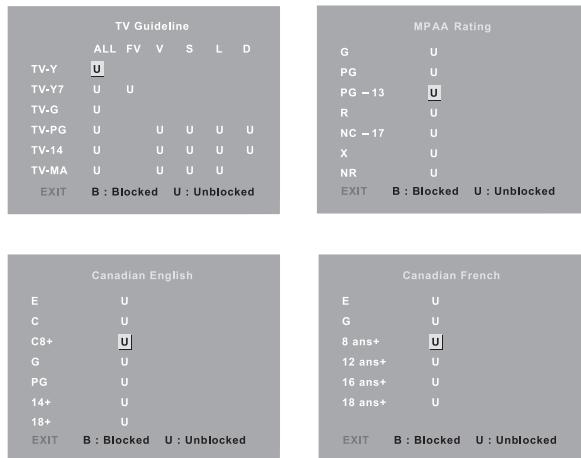
- Select a TV station, video tape or DVD title
- Press **[MENU]** button on the remote control and move to <Closed Caption> menu.
- Set Caption broadcast type by using **[CH]** button on the remote control.
- Also, it can be set in OSD menu by using JOG button.



- Move to TV Guideline or MPAA Rating by using **CH** button on the remote control.



- Move to the position which you want to make channel blocking and press **MENU** button for setting.
- Press it again for cancellation.



- Escape the menu pressing EXIT.
- V-chip function can be set up only by the remote control.

## Using Menus of Picture, Sound and Others

### 4-1. Setting Picture Mode

### 4-2. Setting Sound Mode

### 4-3. Setting Option

## 4-1 Setting Picture Mode

By setting a picture mode suitable for broadcasting/video signals, you may enjoy better quality picture.

### 1) Image Scale : Full - 4:3

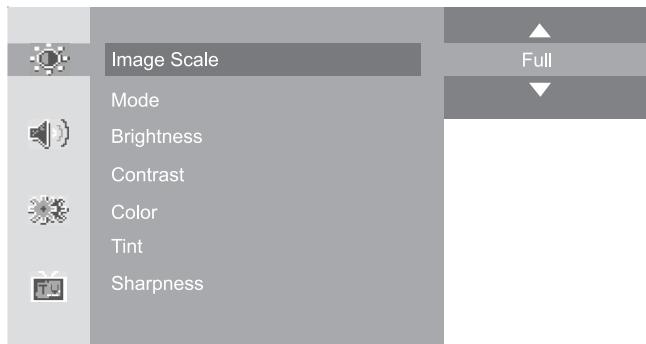
You can set the screen's suitable image scale of TV or Video input signals and view them accordingly.



- Press **[SCALE]** button on the remote control.

- ① **Full** : Show a screen in the full LCD Panel.
- ② **4:3** : Show a screen in 4:3 screen size for general broadcasting.

- Also, it can be set in OSD menu if JOG button is used.



### 2) Mode : Standard - Soft - Dynamic - User

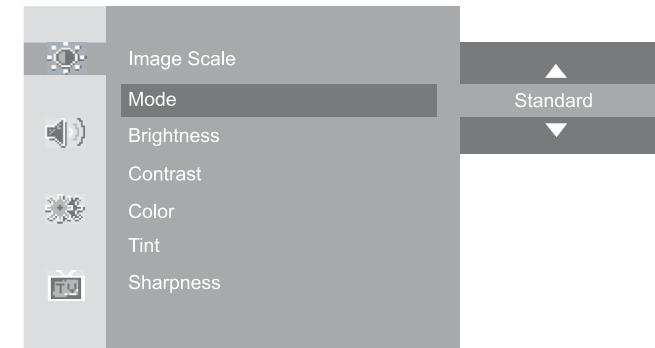
By setting a picture mode suitable for broadcasting/video signals, you may enjoy better quality picture.



- Press **[PM]** button on the remote control.

- ① **Standard** : Standard picture mode.
- ② **Soft** : It displays a picture softly as a whole and is better for watching a film or TV series.
- ③ **Dynamic** : The mode is suitable for watching sports, which changes pictures fast.
- ④ **User** : It is a picture mode customized by a user.

- Also, it can be set in OSD menu if JOG button is used.

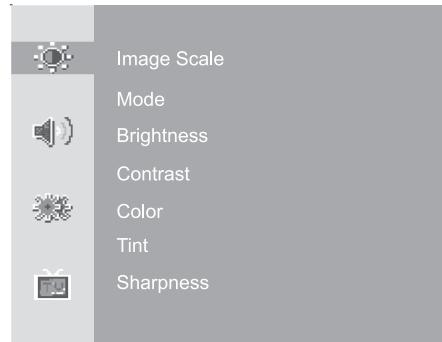


#### 4) Contrast : Adjust screen contrast

#### 5) Color : Adjust screen color

#### 6) Tint : Adjust screen tint

#### 7) Sharpness : Adjust screen sharpness



## 4-2 Setting Sound Mode

You can set sound suitable for TV broadcasting or Video.

### 1) Mode Setting

- Press **[SM]** button on the remote control.



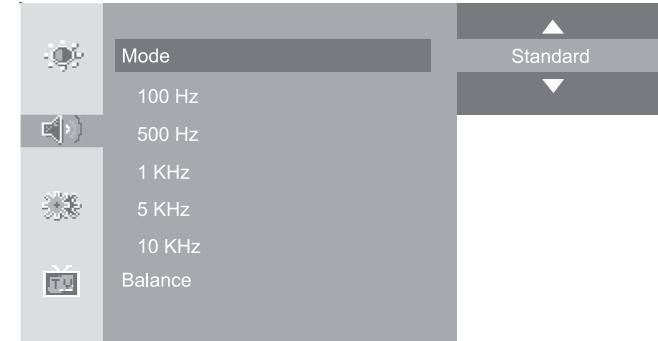
- ① Standard : Standard sound mode.
- ② Music : Music broadcasting mode.

③ Movie : Cinema broadcasting mode.

④ News : News broadcasting mode.

⑤ User : User's customization mode.

Also, it can be set in OSD menu if JOG button is used.



### 2) USER Mode Setting

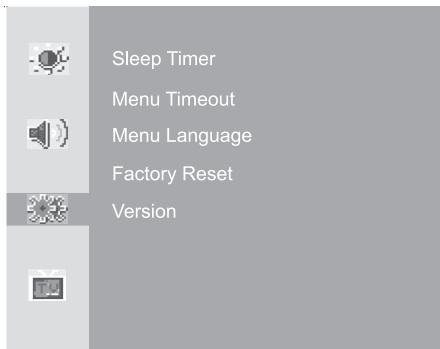
USER mode can be set only in OSD menu.

- Press button to go into main menu.
- Move to SOUND menu by using button.
- Press button to move to the Sub Menu.
- Adjust sound in a desirable frequency bandwidth by using / button on the remote control.

### 3) Balance : Control the balance of Left/Right speakers

## 4-3 Setting Option

- Press **[MENU]** button on the remote control to move to Main Menu.
- Change the settings by using **[◀/▶] / [▲/▼]** button on the remote control.



### ① Sleep Timer

**SLEEP**

- Press **[SLEEP]** button on the remote control.
- Sleep timer can be set from Off to 180 minutes.

② Menu Timeout : It can be adjusted to display OSD Menu between 5 ~ 60 seconds.

③ Menu Language : Change a language to display OSD.

④ Factory Reset : Reset all the OSD control settings back to the factory setting status.

⑤ Version : It shows the product version.

# 5 Using PC MENU

5-1. Auto Adjustment

5-2. Setting Picture

5-3. Setting PC Scale Mode

5-4. Setting Sound

5-5. Setting Option

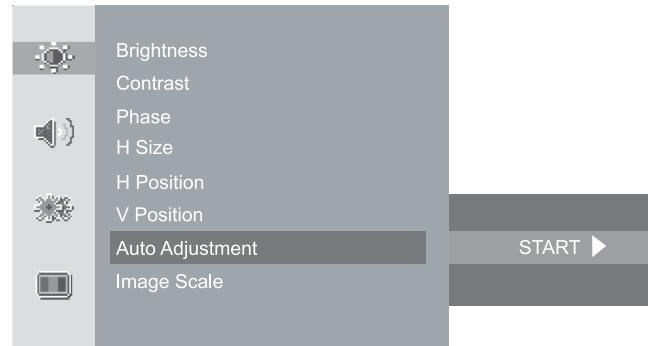
5-6. Setting Color Temperature

## 5-1 Auto Adjustment

In case of using it as a PC monitor, it is automatically set.

When the set is connected to a PC, the MODE should be set as PC RGB Mode.

- Press **AUTO** button on the remote control to automatically set the product's screen status.
- When it is used as PC monitor  
Optimal Resolution : 1280 x 768 @ 60Hz

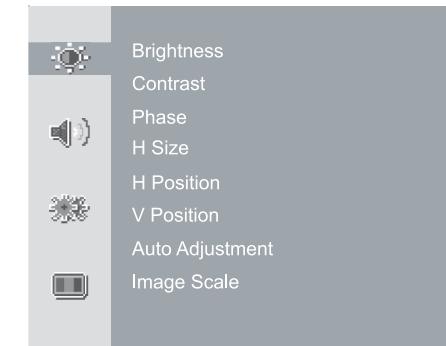


- It may not normally display picture in any resolution out of the optimal resolution range.
- Even though it is automatically adjusted, it may not normally display picture depending on signals from a PC and in this case, it is recommended to execute Auto Adjustment for several times.
- Also, it can be set in OSD menu if JOG button is used.

## 5-2 Setting Picture

In case it is not optimally set even though automatically adjusting it, use Picture menu as below.

- **Brightness** : Adjust screen brightness
- **Contrast** : Adjust screen contrast
- **Phase** : In case it is not optimally set even though automatically adjusting it, use Phase function.
- **H. Size** : Adjust the Size of the PC Monitor.
- **H. Position** : Adjust the position of the PC Monitor.
- **V. Position** : Adjust the position of the PC Monitor.
- **Auto Adjustment** : In case of using it as a PC monitor, it is automatically set.

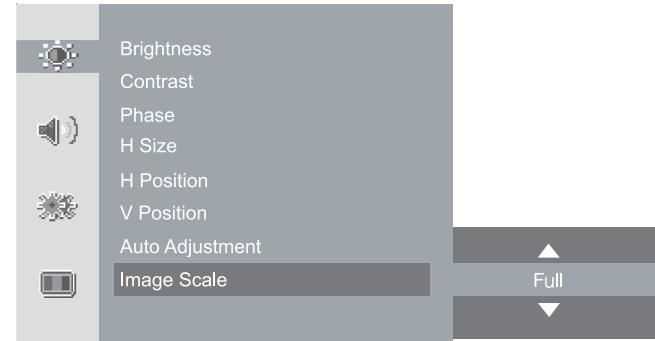


## 5-3 Setting PC Scale Mode

When being used as a PC Monitor, the scale can be adjusted.

PC Monitor Scale works only when PC signal is connected and input signals are selected in RGB mode.

- Press **SCALE** on the remote control.
- ① **1:1** : Display the resolution as 1:1.
- ② **Full** : Display picture in the full screen regardless of the resolution.



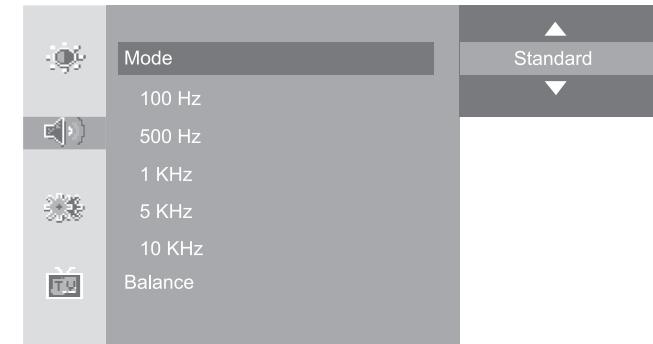
## 5-4 Setting Sound

You can set sound suitable on PC mode.

### 1) Mode Setting

- ① **Standard** : Standard sound mode.
- ② **Music** : Music broadcasting mode.
- ③ **Movie** : Cinema broadcasting mode.
- ④ **News** : News broadcasting mode.
- ⑤ **User** : User's customization mode.

Also, it can be set in OSD menu if JOG button is used.



### 2) USER Mode Setting

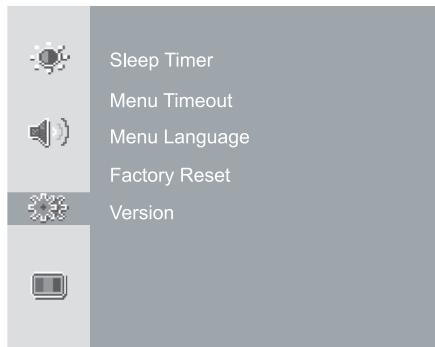
USER mode can be set only in OSD menu.

- Press button to go into main menu.
- Move to SOUND menu by using button.
- Press button to move to the Sub Menu.
- Adjust sound in a desirable frequency bandwidth by using / button on the remote control.

### 3) Balance : Control the balance of Left/Right speakers

## 5-5 Setting Option

- Press **[MENU]** button on the remote control to move to Main Menu.
- Change the settings by using **[◀/▶] / [▲/▼]** button on the remote control.



### ① Sleep Timer

**SLEEP**

- Press **[SLEEP]** button on the remote control.
- Sleep timer can be set from Off to 180 minutes.

② **Menu Timeout** : It can be adjusted to display OSD Menu between 5 ~ 60 seconds.

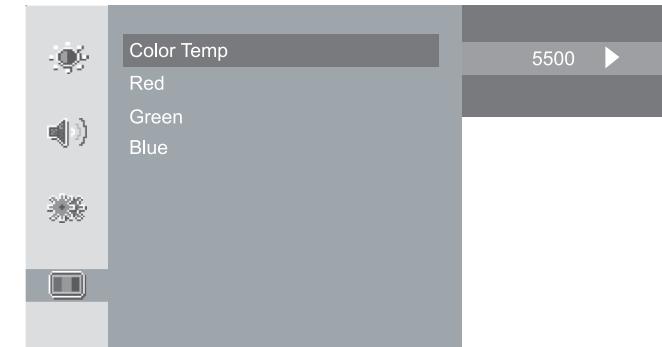
③ **Menu Language** : Change a language to display OSD.

④ **Factory Reset** : Reset all the OSD control settings back to the factory setting status.

⑤ **Version** : It shows the product version.

## 5-6 Setting Color Temperature

- You can set screen color temperature on PC mode.
- Press **[MENU]** button on the remote control and move to <Color Temp> menu .
- Set the value among 5500, 7300, 9300 or you can set as your preference in USER.



# 6

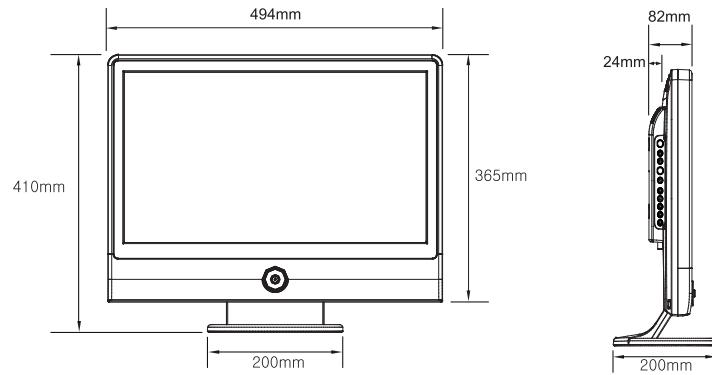
## Specifications

6-1. Dimensions

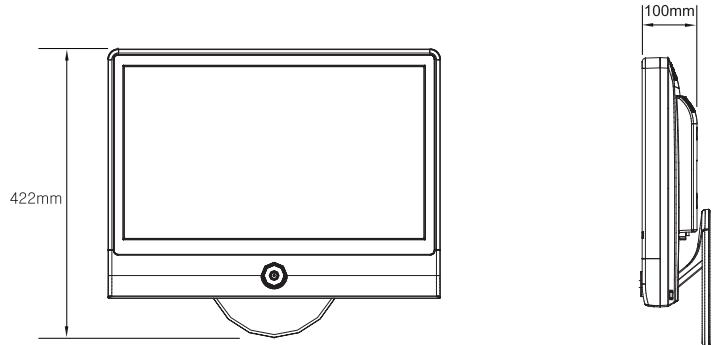
6-2. Specifications

## 6-1 Dimensions

### 1) With Stand



### 2) With the Stand folded



\* Weight : around 7.5kg (NET)

The present unit can vend backward up to 15 degress (Tilt Angle)

## 6-2 Specifications

Dimensions, apparent design and specifications are subject to change without any prior notice for the performance improvement.

Product Name	20" TFT-LCD TV	
LCD Panel	Type	Amorphous Silicon TFT-LCD
	Size	20" (diagonal length)
	Resolution	1366 (H) x 768 (V)
	Pixel Pitch	0.324 mm x 0.324 mm
	Contrast Ratio	600 : 1 (Typ.)
	Brightness	550 cd / m <sup>2</sup>
	Actual Display Size	444mm (H) x 249mm (V)
	Viewing Angle	178°
	Interface	LVDS
TV Broadcasting System	NTSC	
Audio Output	MAX 5W x 2 / Stereo	
PC Monitor	Horizontal Frequency	30 ~ 60 KHz
	Vertical Frequency	60 ~ 75 Hz
	Colors	16.2M colors
	Max. Resolution	WXGA : 1,280 (H) x 768 (V)
Power	Adaptor Input	AC 100V~240V, 50~60Hz
	Adaptor Output	DC 24V
Power Consumption	In-Operation	< 80W
	Power-Saving Mode/OFF	< 5W
Energy Saving Mode	VESA DPMS	

# 7

## Service & Others

7-1. Troubleshooting

## 7-1 Troubleshooting

Before contacting service to service personnel, please check the followings first. If you still have the same symptoms even after taking the following actions, contact your local dealer or qualified service personnel.

### I) TV-related Troubles

#### Unclear display or noisy sound

- Check whether TV antenna is correctly connected.
- Broadcasting may not be good in an area with bad reception or far away from a station/network.

#### No image

- Check whether you connect the power cord properly. And press the **[POWER]** button.

#### Black background only

- Check whether the mode is set as PC monitor or Video/S-Video Input, not TV mode.

#### Strips and shaking display

- It may be interrupted by neighboring radio waves (please check any wireless phone, hair drier, electric drilling machine and etc)
- Execute fine tuning for manual adjustment.

#### Can't catch a specific channel

- Check whether Channel Setting is normally set.
- Try to rotate an antenna's direction.

#### Picture plays without sound

- Try to press **[MUTE]** button.
- Volume up by using **[VOL]** button.

### 2) PC Monitor-related Troubles

#### No image on the monitor

- Check whether the D-Sub cable is firmly connected to the TV and a PC.
- Check whether a graphic card is correctly inserted into the slot.
- Check whether the Power of a PC and the TV is on.
- Check whether a graphic card or mode is set appropriately on a PC.
- Referring to the Standard Signal Mode for PC Monitor in the previous chapter, change graphic mode.
- Check whether D-Sub cable pins are not inserted or bent.

#### No Power

- Check whether the power cord is normally inserted and reconnect it.
- Pull out the power cord from wall outlet and reconnect it in 10~20 minutes.

#### LED Lamp turns off in red and it shows no image

- Check whether the graphic cable is connected to the TV and a PC.
- Check whether a computer is in power-saving mode and attempt to operate keyboard and mouse.

#### Unstable or unfocused image or trembling

- Check whether the D-Sub cable is connected to the TV and a PC.
- If a PC's display mode is changed, the screen needs readjusting, so you need to use Auto Adjustment or Picture Adjustment.
- Check whether the TV and your graphic card are compatible each other and whether it is set as an appropriate refresh rate. If letters look distorted, change the refresh rate to 60Hz.

#### Abnormal image scale

- By using vertical/horizontal position in Picture Adjustment Menus, adjust the position.
- Try to execute Auto Adjustment function.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions;  
 (1) This device may not cause harmful interference, and  
 (2) This device must accept any interference that may cause undesired operation.

This equipment has been tested and found to comply with the limit for a Class B digital Device pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency Energy and, if not installed and used in accordance with the instructions, If this equipment does cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, with can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the Receiver is connected.
- Consult the dealer or an experience radio TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### The places of nails to install the unit on the wall

