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Top Technology

3S Digital

GOOD FOR YOUR DIGITAL LIFE

User's Manual | 3SD-32ALA/3SD-42ALA

Software, Systems & Solutions 3S Digital Co., Ltd.

Important Safety Instructions

1 Read these instructions.

2 Keep these instructions.

3 Heed all warnings.

4 Follow all instructions.

5 Do not use this apparatus near water.

6 Clean only with dry cloth.

7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8 Do not install near any heat source such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety.
If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11 Only use attachments/accessories specified by the manufacturer.

12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13 Unplug this apparatus during lightning storms or when unused for long periods of time.

14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

Warning! Important Safety Instructions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.

This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

Note to CATV system installer: This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Caution: FCC/CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Caution: To prevent electric shock, match the wide blade of plug to the wide slot, and fully insert the plug.

Attention: pour eviter les chocs electriques, introduire la lame le plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws.
Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

Important Safety Information

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

- Read all safety and operating instructions before operating your PDP.

- Keep the safety and operating instructions for future reference.

- Heed all warnings on the PDP and in the operating instructions.

- Follow all operating and use instructions.

- Unplug the PDP from the wall outlet before cleaning. Use a damp cloth; do not use liquid or aerosol cleaners.

- Never add any attachments and/or equipment without approval of the manufacturer. Such additions can increase the risk of fire, electric shock, or other personal injury.

- Do not use the PDP where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.

- Do not place the PDP on an unstable cart, stand, tripod, bracket, table, or floor where it can fall. A falling PDP can cause serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the PDP. Follow the manufacturer's instructions when mounting the unit, and use a mounting accessory recommended by the manufacturer. Move the PDP and cart with care. Quick stops, excessive force, and uneven surfaces can make the unit and cart unsteady and likely to overturn.

- Provide ventilation for the PDP. The unit is designed with slots in the cabinet for ventilation to protect it from overheating. Do not block these openings with any object, and do not place the PDP on a bed, sofa, rug, or other similar surface. Do not place it near a radiator or heat register. Do not place the PDP in a rack or bookcase.
Ensure that there is adequate ventilation and that you've followed the manufacturer's instructions for mounting.

- Operate your PDP only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.

- Use only a grounded or polarized outlet. For your safety, this PDP is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact your electrician to replace your outlet.

- Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

Warning! Important Safety Instructions

- Unplug the PDP from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-line surges.

- Avoid overhead power lines. An outside antenna system should not be placed in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful to keep from touching the power lines or circuits. Contact with such lines can be fatal.

- Do not overload the wall outlet or extension cords. Overloading can result in fire or electric shock.

- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts. Never spill liquid of any kind on the PDP.

- Ground outdoor antennas. If an outside antenna or cable system is connected to the PDP, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

- Do not attempt to service the PDP yourself. Refer all servicing to qualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
  - when the power-supply cord or plug is damaged
  - if liquid has been spilled on the unit or if objects have fallen into the unit
  - if the PDP has been exposed to rain or water
  - if the PDP does not operate normally by following the operating instructions
  - if the PDP has been dropped or the cabinet has been damaged
  - when the PDP exhibits a distinct change in performance

- If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the PDP to normal.

- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.

- Upon completion of any service or repairs to this PDP, ask the service technician to perform safety checks to determine that the PDP is in a safe operating condition.

- The PDP can properly operate in a temperature range of 32~104°F(0~40°C) and 80% humidity. Do not use in a hot and humid place.

- Before moving the PDP equipped with speakers, separate the speakers from the PDP. If you move the PDP with the speakers attached, it may result in damage or injury.

FCC Information

User Instructions

NOTE: This equipment has been tested and found to comply with the limits 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, may 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 receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of 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 experienced radio/TV technician for help.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4 .

The party responsible for product compliance: Your dealer

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product.
Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating.

For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6015P type (tandem blades) plug cap.

IC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Notice de Conformité IC

Cet appareil numérique de classe B respecte toutes les exigences du Règlement ICES-003 sur les équipements produisant des interférences au Canada.

VCCI

This is a Class B product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

This Class B digital apparatus complies with Canadian ICES-003.
Cet appareil numéique de la classe B est conforme à la norme NMB-003 du Canada.

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 received, including interference that may cause unesired operation.
This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

Important Warranty Information Regarding Television Format Viewing

Wide screen format PDP Displays (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 the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on nonexpanded standard format television video and programming, should be limited to no more than 5% 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 stationary images that exceed the above guidelines can cause uneven aging of PDP Displays that leave subtle,but permanent burned-in ghost images in the PDP picture.
To avoid this,vary the programming and images, and primarily display full screen moving images,not stationary patterns or dark bars.
On PDP models that offer picture sizing features,use these controls to view different formats as a full screen picture.

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

User Instructions

- **Screen Image retention**
  Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of this screen when displaying a still image.

- **Cell Defect**
  The plasma display panel consists of fine cells. Although the panels are produced with more than 99.9 percent active cells, there may be some cells that do not produce light or remain lit.

- **Height**
  The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height and do not install and operate there.

- **Warranty**
  - Warranty does not cover any damage caused by image retention.
  - Burn-in is not covered by the warranty.

Product Characteristics

This product utilizes the most up-to-date digital technology, which functions with digital video signal processing and a high definition and high quality LCD panel. The digital television also supports 3D effects using a powerful sound system.

These high-tech systems are not only provided for normal and digital broadcasts but also for video, DVD, and PC connections.

Built-in Digital Tuner

- Built-in digital broadcast receiver
- No set-top box required for off-air signals (HD or Analog)
- Multiple Picture in Picture / Picture out of Picture viewing capabilities

Set up your personal theater with high definition video and surround sound

- Display Panel: TFT-LCD
- DCRe (Digital Cinema Reality Engine) implemented and high definition video supported
- Surround Sound System : Dolby Digital 5.1Ch
- High quality sound system with SRS TruSurround XT implemented

Watch movie clips simply by connecting to your PC.

- Automatic resolution detection with the VESA Plug & Play function.
- PC audio reception

Experience many more functions with the 3S Digital LCD TV

- The automatic turn-on option helps to select a defined TV channel and volume level
- Various screen sizes are available
  (4:3, 16:9, Panorama, Expansion, Enlarged subtitles)
- Full digital video and sound supported by HDMI

Power Saving Mode

- Power Saving mode reduces the energy consumption

Table of Contents

Table of Contents

Chapter 1 General Information

Front panel and parts

(The picture of the product may vary depending on the model)

3SD-32ALA

▼ CH ▲   ◄ VOL ►   INPUT   MENU   ⏻/❙

❶   ❷   ❸   ❹   ❺

3SD-42ALA

MENU   INPUT   ▼ CH ▲   ◄ VOL ►   ⏻/❙   ●   ·

❹   ❸   ❶   ❷   ❺   ❼ ❻
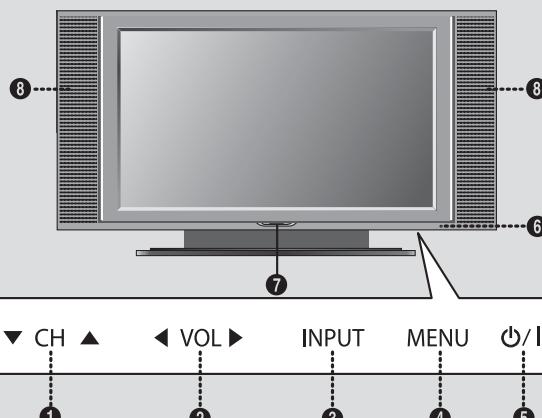
1 ▲ CH ▼ (Channel Buttons)

Press to change channels. These buttons are also used to highlight various items on the on-screen menu.

2 ◄ VOL ► (Volume Buttons)

Press to decrease or increase the volume. These buttons are also used to select items on the on-screen menu.

3 Input Selection Button

Displays a menu of all available input sources.
Also used to confirm your choice on the on-screen menu.

4 MENU Button

Press to see the TV's on-screen menu Also used to move to a previous item in the on-screen menu.

5 ⏻/❙ [Power] Button

Used to turn the TV ON/OFF.

6 Indication Light

The green light blinks while the TV is turning on and stays on once the TV is on. The yellow light is on when the timer is activated.

7 Remote Control Receiver

8 Speaker

Checking the parts   (The picture of the product may vary depending on the model)

Remote Control / Battery (2)   **Power Cable**   **Coaxial Cable**
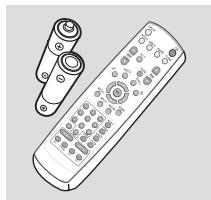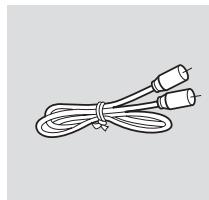
Familiarizing Yourself with the Main Hardware

Rear panel and cables

(The picture of the product may vary depending on the model)

3SD-32ALA
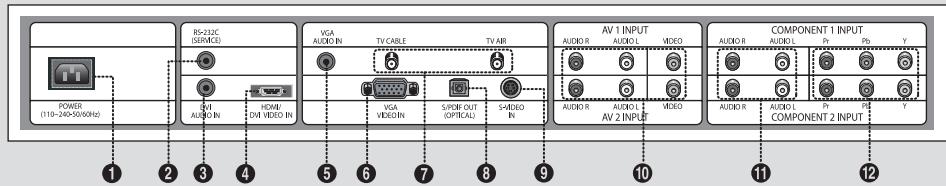
3SD-42ALA
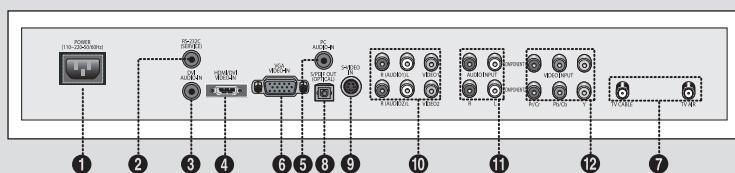
1	**Power Input Terminal**	**7**	**AIR, CABLE Input Terminal**
2	**Service Cord Terminal**	**8**	**Optical Digital Sound Output terminal**
3	**DVI Sound Input Terminal**	**9**	**S-video Input Terminal**
4	**HDMI/DVI Input Terminal**	**10**	**External Terminals 1, 2**
5	**PC Sound Input Terminal**	**11**	**Component Sound Input Terminals 1, 2**
6	**PC Input Terminal**	**12**	**Component Video Input Terminals 1, 2**

Connection Cables   (The picture of the product may vary depending on the model)

HDMI Connector
(Optional : not included)
Connect to Terminal ❹.
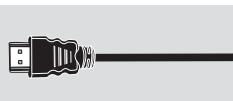
HDMI/DVI Connector
(Optional : not included)
Use when DVI input ❹ terminal.

Digital Sound Connector
**(Optional : not included)**
Connect to Connector ❽.
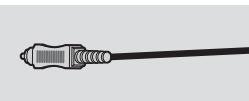
S-Video Connector
(Optional : not included)
Connect to Connector ❾.

PC Cable
**(Optional : not included)**
Connect to Connector ❻.
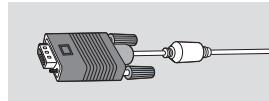
DVI/PC Sound Cable
(Optional : not included)
Connect to Connectors ❸, ❺.
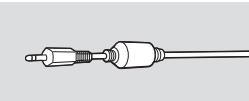
Component Signal Cable
Connect into Connector ⓬.

Sound Cable
Connect to Connector ⓫.

AV Cable
(Optional : not included)
Connect to Connector ❿.

Coaxial Cable
Connect to Connector ❼.

Remote Control Buttons

(The picture of the product may vary depending on the model)
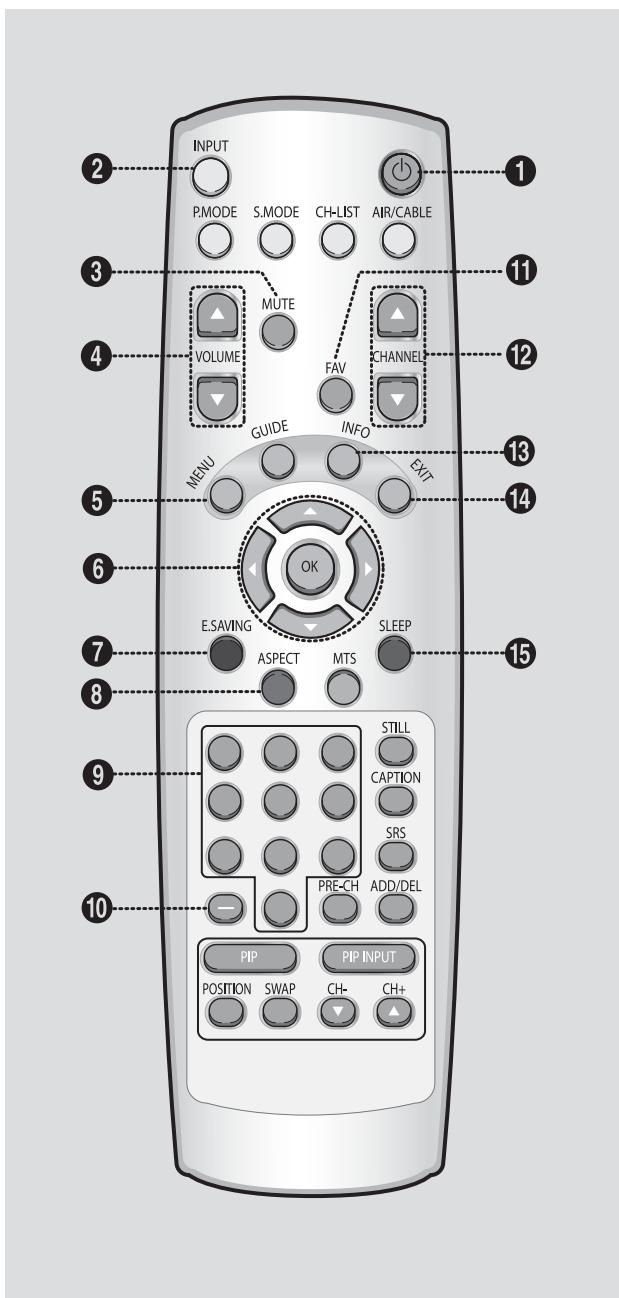
1 POWER

2 INPUT

Displays a menu of all available input sources. Also used to confirm your choice in the on-screen menu.

3 MUTE

Press to temporarily switch the sound off.

4 VOLUME

Press to increase or decrease the volume.

5 MENU

Press to display the main on-screen menu.

6 ▲/▼/◄/►

Press to select on-screen menu items and change menu values.

7 E.SAVING

Press to save power.

8 ASPECT

Press to adjust the screen size.

9 Numeric buttons

Press to change the channel directly using the numeric buttons.

10 [–] Button

When selecting a digital broadcast channel, press the Main channel number → [–] → sub channel number. Analog channels can be viewed when the sub channel is zero.

11 FAV

Watch your favorite channels.

12 CHANNEL

Press to change channels.

13 INFO

Check the current program information, screen status, multi sound status and time.

14 EXIT

Exit from a menu or the program guide to the main TV screen.

15 SLEEP

Press to select a preset time interval to automatically shut the TV down.

Remote Control Buttons
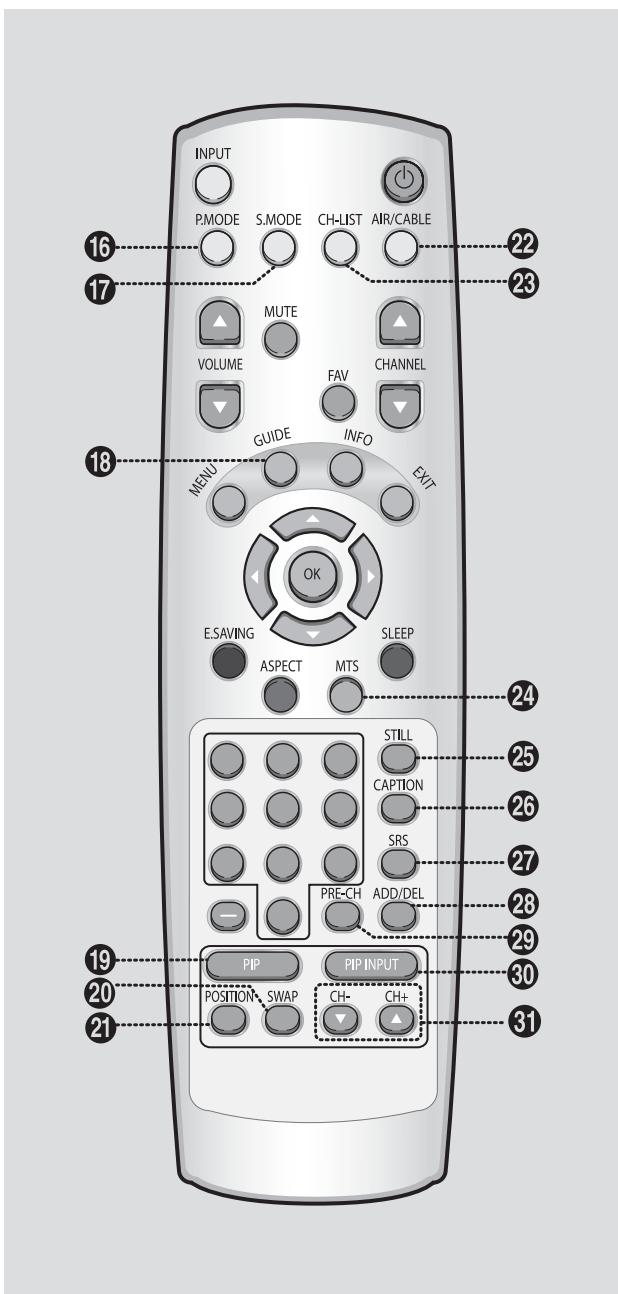
16 P.MODE

Press to change to a preset picture mode.

17 S.MODE

Press to change to a preset sound mode.

18 GUIDE

Press to view the DTV program information.

19 PIP

Picture-in Picture ON/OFF.

20 SWAP

Press to switch the channels in the main screen and Sub-Screen or vice versa in PIP mode.

21 POSITION

Press this button to change the location of the Sub-Screen in PIP mode.

22 AIR/CABLE

Press to select Antenna/Cable as the picture source.

23 CH-LIST

Press to see the channel list.

24 MTS

Press to select your favorite language for digital broadcasting. You can select your favorite mode Mono/Stereo/SAP.

25 STILL

Press to pause the current scene.

26 CAPTION

Press to activate English subtitles.

27 SRS

Press to activate the 3-D surround sound system and 'live' sound as in a music concert hall.

28 ADD/DEL

Press to add or delete a channel to/from your channel list.

29 PRE-CH

Press to view the previous channel.

30 PIP INPUT

Press to display other sources connected to the TV in the Sub-Screen.

31 CH-, CH+

Press to change the channel in the Sub-Screen.

9

Remote Control Instructions

Press to select on-screen menu items and change menu values
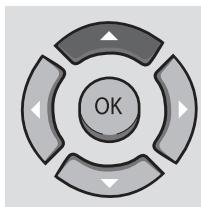

Press to move up in the menu
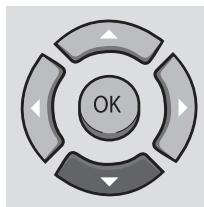
Press to move down in the menu
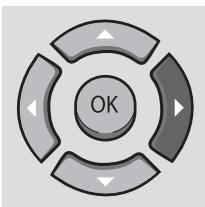
Press to move right in the menu
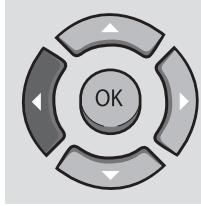
Press to move left in the menu
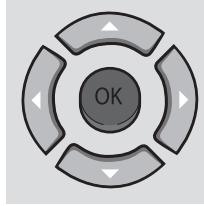
Press to select the on-screen menu item
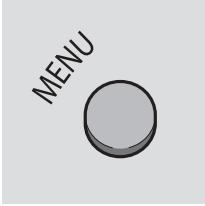
Press to return to the previous menu

Inserting the batteries into the remote control

1   Push the ▼ mark at the back of the remote control and pull forward slightly.

2   Insert two AAA 1.5V batteries ensuring the correct polarity (+/-).
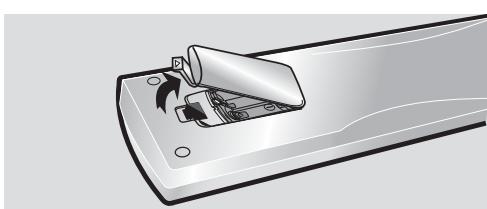
3   Close the lid.
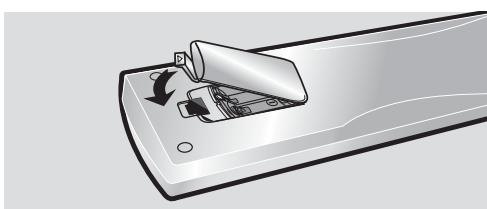
| Caution | ■ Use only Alkaline Batteries. |

If the remote control is not working, see the checkpoints below. ▮▮▮▮

1. Are the polarities of the batteries (+/-) correct?

2. Are the batteries worn out?

3. Was there an AC power failure?

4. Is the power cable plugged in?

5. Is any special fluorescent or neon sign board turned on?

Remote Control Reception Angle ▮▮▮▮

Use the Remote control within a range of 7~10m and at an angle of 30° to either side of the receiver.

3SD-32ALA

Caution ■ Used batteries should be recycled and kept out of children's reach.

■ Do NOT use new and old batteries together.Change both batteries at the same time.

■ When not using the remote control over a long time, remove the batteries from the unit.

■ Use only Alkaline batteries.

3SD-42ALA
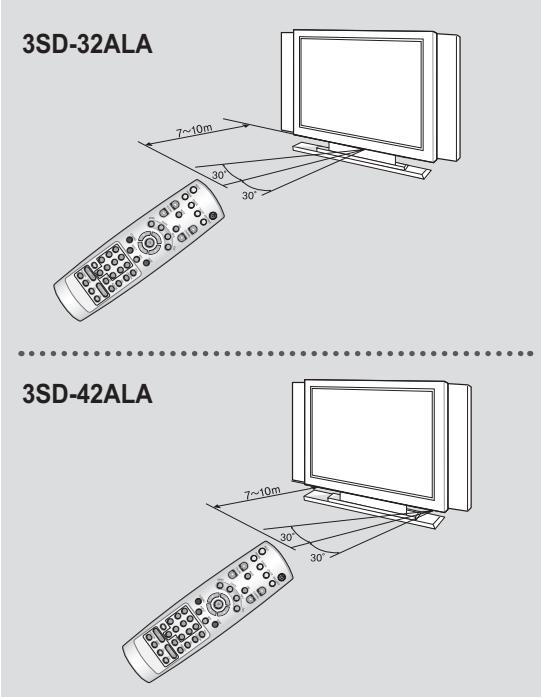
Automatic Channel Settings

Any receivable channels can be memorized automatically.

1 Press **MENU**.
The menu will appear.

2 Press ▲/▼ and move to **Channel**, then press **OK**.
The [Channel] menu will appear.

3 Press ▲/▼ and move to **Auto Memorizing**, then Press **OK**.
The [Auto Memorizing] menu will appear.

4 Press ▲/▼ to move to the type of Antenna connection, and press **OK**.
The [Auto Memorizing] menu will appear.

5 Press ◄/► to check the status, then press **OK**.
The [Auto Memorizing] menu will appear.
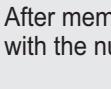
6 After memorizing all receivable channels, a menu appears with the number of channels that have been memorized.

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

Useful Tips	■ When (Air + Cable) is selected, the TV searches for channels (both Analog and Digital) from the antenna input.

■ When (Air + Cable) is selected, the TV searches for channels (both Analog and Digital) from the antenna input.

■ When selecting (Air) only, only Air channels are scanned (Analog, Digital).

■ When selecting (Cable) only, only Cable channels are scanned (Analog, Digital).

■ If any antenna connection status is changed, please perform automatic channel memorization again.

■ When stopping the automatic channel scan, the automatic channel selection will not be completed. Only channels used in the menu will be set up.

Checking memorized channels

1   CHANNEL   Press the **CHANNEL** buttons.
Pressing the [CHANNEL] buttons will select only the memorized channels sequentially.

Selecting DIGITAL channels only

1   AIR/CABLE   Pressing **AIR/CABLE** will select only the memorized digital channels sequentially.

Antenna Settings

1   MENU

Press **MENU**.
The menu will appear.

2   OK

Press ▲/▼ to move to a **Channel**, then press **OK**.
The [Channel] menu will appear.

Antenna	Air ▶
Auto Memorizing	
Channel List	
Fine Tune	Auto
Signal Strength	

11:25 PM
Sep. 11, 2005

▲ ▼ Move OK Select Menu Back

3   OK

Press ▲/▼ to move to **Antenna**, then press **OK**.
The [Antenna] menu will appear.

Antenna	
Auto Memorizing	
Channel List	✓ Air
Fine Tune	
Signal Strength	Cable

11:25 PM
Sep. 11, 2005

▲ ▼ Select Menu Back

4   OK
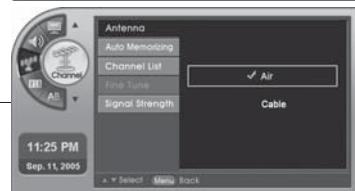
Press ▲/▼ to select **Air** or **Cable**.

5   EXIT

Press **EXIT** to exit the menu.

Useful Tips
- An air signal is transmitted via VHF/UHF over the air, analog is NTSC, and digital is ATSC with a VSB modulated signal.
- A cable signal is a cable transmitted signal, analog is NTSC, and digital is SCTE with a QAM modulated signal.

Adding or Removing Channels

After memorizing the channels, you may add more channels not added due to a weak signal, or you may remove unwanted channels.

Adding or removing the current channel

1 ADD/DEL

Press the number of the channel to memorize, then press the **ADD/DEL** button.
- For example, to add a channel, press the number of the channel, then press [ADD/DEL].
- When the [ADD/DEL] menu appears, press [OK] to either add or remove.

Channel Add / Delete

DTV Air 11-1 : Added channel

Delete?

Yes   No

◄ ► Move   OK Select   Add/Del Exit

Adding or removing all memorized channels

1 MENU

Press **MENU**.
The Menu will appear.

2 OK

Press ▲/▼ to move to **Channel**, then press **OK** to finish.
The [Channel] menu will appear.

Antenna   Air
Auto Memorizing
Channel List
Fine Tune   Auto
Signal Strength
11:25 PM
Sep. 11, 2005
▲ ▼ Move   OK Select   Menu Back

3 OK

Press ▲/▼ to move to **Channel List**, then press **OK**.
The [Channel List] menu will appear.

Antenna   Channel List (1/1)   ADD/FAV
Auto Memorizing   DTV Air 6-1 SBS   ✓ ♥
Channel List   DTV Air 7-1 KBS D-2   ✓
Fine Tune   DTV Air 11-1 MBC DTV
Signal Strength
11:25 PM
Sep. 11, 2005
▲ ▼ Move   Add/Del   Fav   Page Up/Down   OK View

4 OK   E.SAVING
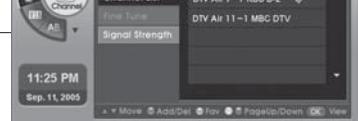
Press ▲/▼ to move to the channel you wish to add and then press the **RED** Button.
- If the channel has the ✓ mark, the channel is added.
- Press it again and the ✓ will disappear and the memorized channel is removed.

5 EXIT

Press **EXIT** to exit the menu.

> **Useful Tips** ■ To confirm the added channel after the menu disappears, press [CHANNEL].

Adding favorite channels

This function is to help users to select their favorite channels as quickly as possible from amongst multiple channels.

| FAV | Press **FAV**.
Go to Menu-Favorite channels and press the [FAV] button to check your favorite channels in the list |

Selecting a special channel as a favorite channel

1 | MENU | Press **MENU**.
The menu will appear.

2 | OK | Press ▲/▼ to move to **Channel**, then press **OK**.
The [Channel] menu will appear.

3 | OK | Press ▲/▼ to move to **Channel List**, then press **OK**.
The [Channel List] menu will be selected.

4 | OK / ASPECT | Press ▲/▼ to move to the favorite channels, then press the **GREEN** button.
■ Make sure that the selected channel has been checked ♥.
■ To exit from the favorite channel set-up, press the green button again.

5 | EXIT | Press **EXIT** to exit the menu.

Useful Tips
■ At least one or more channels must be memorized before setting up your favorite channels.
■ A removed channel cannot be added to your favorite channels.

Current Program Information

You can check the current time and channel information. (This is only available for digital broadcasts)

GUIDE	Press **GUIDE**. Press [GUIDE] to view the program guide for the current channel. The default for the basic broadcasting guide should be set to [Current Guide]. (The Program Guide may change without notice by the broadcast station.)

1 | GUIDE | Press **GUIDE**.
The Current Guide will appear. |

2 | OK | Press ▲/▼ to move to **Current Guide**, then press **OK**.
The menu will disappear and information about the current channel will appear. |

CURRENT GUIDE
6/01 Thu
35-1 Moto   AM 11:04
Live Edens 1080I
6/1 AM 11:02 - AM 11:07
Live Edens 1080I
IDay 720P
720P Lip Sync
HD Mux Test
Dummy
Dummy Two
A Two hour Du...
Down ▲ Up INFO. INFO.
PrevPage   NextPage
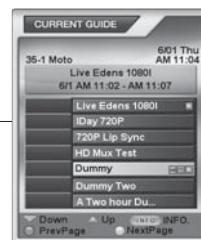
3 | OK | Press ▲/▼ to move to a digital broadcast program, then press **OK**.
Detailed information about the selected digital broadcast program will appear. (This is available when the original program supplies the relevant information.) |

INFORMATION
Caption   PG
This is the Live Edens segment. Closed caption is included on CC1 and CC3. MPAA rating PG
INFO Back
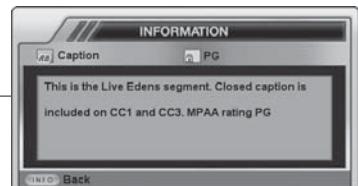
4 | EXIT | Press **EXIT** to exit the menu. |

Useful Tips ■ Detailed information about the channel will not appear unless it is provided by the broadcast station.

Current Program Guide

Pressing **OK**: The current channel will be reserved.
Pressing the button again will cancel the reservation.
Reserving a Program is only possible for future programs that are NOT on-air at the moment.

E.SAVING

Press the **RED** button to see the next viewing list.

ASPECT

Press the **Green** Button to see the previous page.

MTS

Press the **Yellow** Button to see the forward page.

GUIDE

Press the **GUIDE** Button to see detailed information for the selected digital program.

Checking the strength of the digital signal

This shows the current digital signal strength as a picture.

☞ **Before Starting**
Keep the digital TV receiving mode as is.

1 MENU
Press **MENU**.
The menu will appear.

2 OK
Press ▲/▼ to move to **Channel**, then press **OK**.
The [Channel] menu will appear.

3 OK
Press ▲/▼ to move to **Signal Strength**, then press **OK**.
The reception sensitivity will be shown in the menu.

4 EXIT
Press **EXIT** to exit the menu.

Menu Transparency Settings

Menu Transparency sets the background transparency of the menu.

1 MENU
Press **MENU**.
The menu will appear.

2 OK
Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 OK
Press ▲/▼ to move to **Menu Transparency**,
then press **OK**.
[Menu Transparency] will be selected.
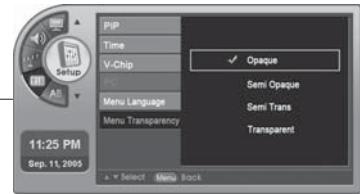
4 OK
Press ▲/▼ to select the transparency, then
press **OK**.
There are 4 options in menu transparency: [Opaque],
[Semi Opaque], [Semi Trans] and [Transparent].

5 EXIT
Press **EXIT** to exit the menu.

Power Saving Mode Settings

1   E.SAVING   **Press E.SAVING.**
Each time [E.SAVING] is pressed, (Standard) and (Saving) modes are switched. (Saving) mode conserves power.

E_Saving   Standard
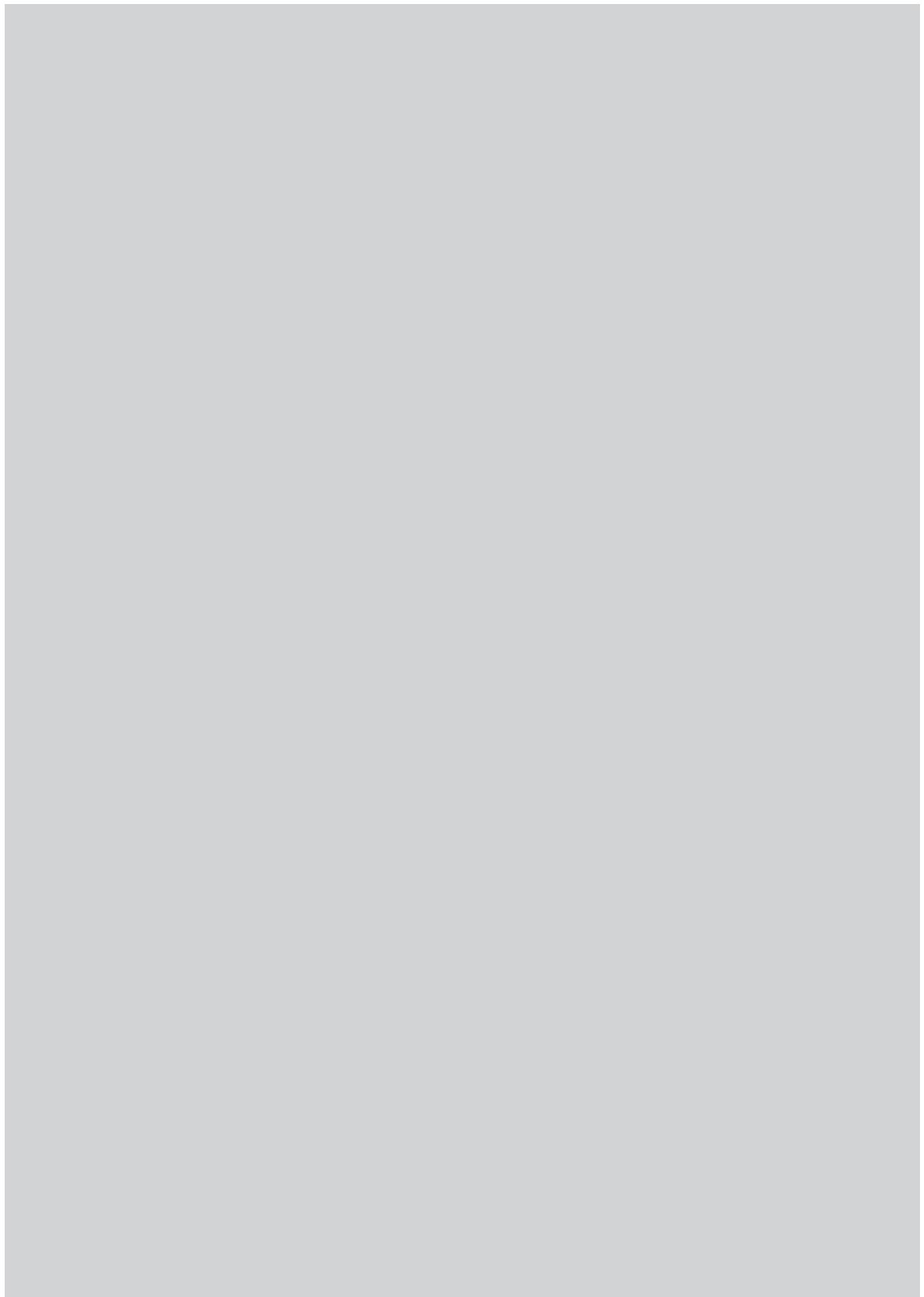
Chapter 2 Connections and External Input Settings

Checking Items Before Connecting

Please check the list below before connecting the product to other devices.

Check items before connecting

1 Check the instruction manual when connecting external devices. External products sometimes have different buttons and locations.

2 Do not connect the power unless every connection is completed. The product may be damaged if turned on while still in the process of being connected.

3 Connect the left (white) and right (red) cables correctly to the sound cable.

4 Check the terminals to connect the product to on the rear panel.

For each connector, please refer to "Rear panel and Connectors" p.7

Connecting an Antenna

There are internal and external types of antennae.

Connecting an Antenna

3SD-32ALA   3SD-42ALA

TV CABLE   TV AIR

TV CABLE   TV AIR

Wall mount
or External
Antenna
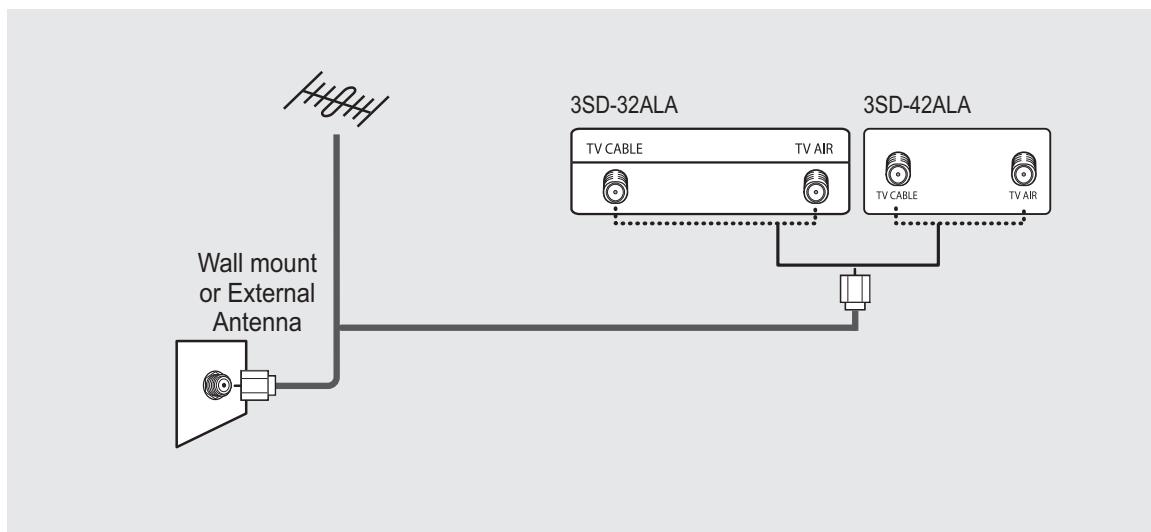
1 Use a coaxial cable to connect the rear panel of the TV's **[AIR]** or **[CABLE]** terminals and the wall mount or external antenna.

2 When an Air signal is required, connect to the **[AIR]** terminal. If a Cable signal is required, connect to the **[CABLE]** terminal. If both Air, Cable are available, then connect both **[AIR]** and **[CABLE]** terminals.

3 Connect the TV power cord when connecting everything else.

| Caution | ■ Avoid bending the copper tip at the center of the coaxial cable. |

| Useful Tips | ■ If the signal is too weak to be received by the TV, purchase an additional wavelength amplifier for better reception. |

■ Setting up an UHF antenna will receive a digital broadcast signal.

■ For apartments and condos, check with related parties or your landlord for UHF receiver availability.

■ Some areas can receive digital broadcasts via cable companies, therefore check with your local cable operator.

Viewing Air Channels

1 Turn on the TV and follow the steps in [Automatic Channel Settings]. (Useful Tips p.12)

Currently all broadcast Air (Analog, Digital) and Cable (Analog, Digital) channels have been memorized.

2 Change the channel you wish to watch!

- **Selecting channels directly via the numeric buttons.**
  ex) To watch channel 4: Press '4' → Press select/OK.

- **To change channels using the [Channel] button.**
  ex) Change from Channel 4 to 11: Keep pressing the [Channel] button until you get to Channel 11.

Watching Digital Broadcasting

1 Turn on the TV and follow the steps in [Automatic Channel Settings]. (Useful Tips p.12)

Currently all broadcast Air (Analog, Digital) and Cable (Analog, Digital) channels have been memorized.

2
- **Changing the channel by pressing the [CHANNEL] button**
  Ex) Press the [CHANNEL] button until the required digital channel is reached.

- **Directly pressing numbers and using [–]**
  Ex) To watch digital network channel 61, :press '6' → '-' → '1' → and the [Select] button.

| Caution | ■ When not in (TV) mode, changing the channel is not performed. |

Connecting a VCR

External devices may have different terminals for the same functions.

Connecting the video/sound cables
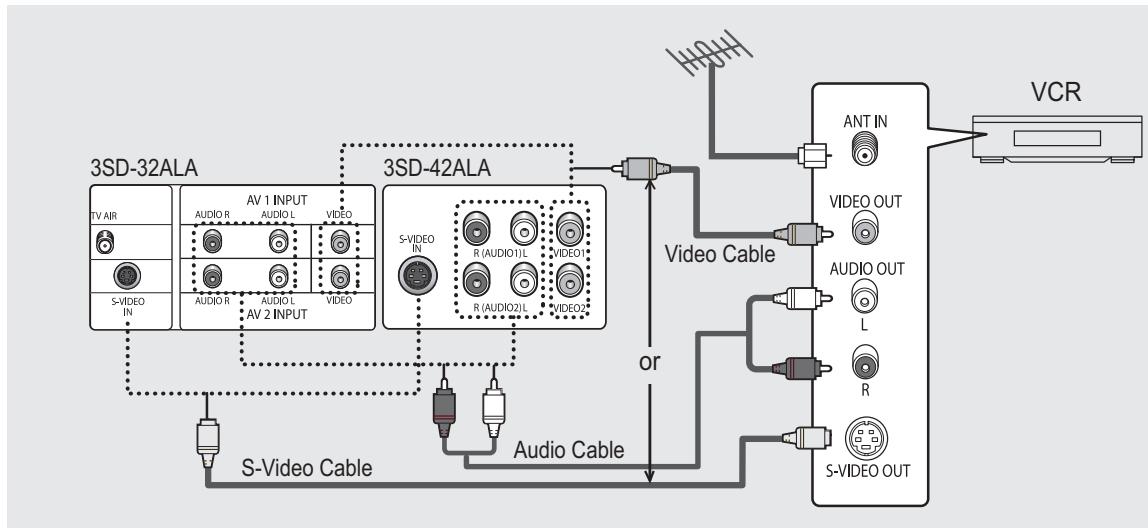
1 Connect the antenna to the Antenna input of the rear panel of the VCR.

2 Connect the video cable to the **[AV1 video input]** or **[AV2 video input]** (yellow) terminal at the back of the TV to the **[Video Output]** (Yellow) of the VCR.

3 Connect the sound cable to the **[AV1 sound input left/ right]** or **[AV2 sound input left/right]** (white/red) terminal at the back of the TV to the **[Sound output]**(white/red) of the VCR.

> **Useful Tips** ■ If there is a terminal called [S-Video Output], connect the TV [S-Video Input] terminal to the VCR [S-video output] terminal. Connect the sound cable to the [Video2/S-Video Input left/right] (white/red).

Watching a VCR

1 Turn on the TV and press the **INPUT** button, then select [VIDEO1] or [VIDEO2]. If (external input) mode is not selected, check your video connection.

2 Turn on the VCR and press the play button.
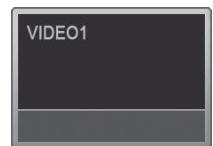
> **Useful Tips** ■ When connecting a TV and VCR with an S-Video cable, press the [INPUT] button (to select [S-VIDEO].

Connecting a Coaxial Cable
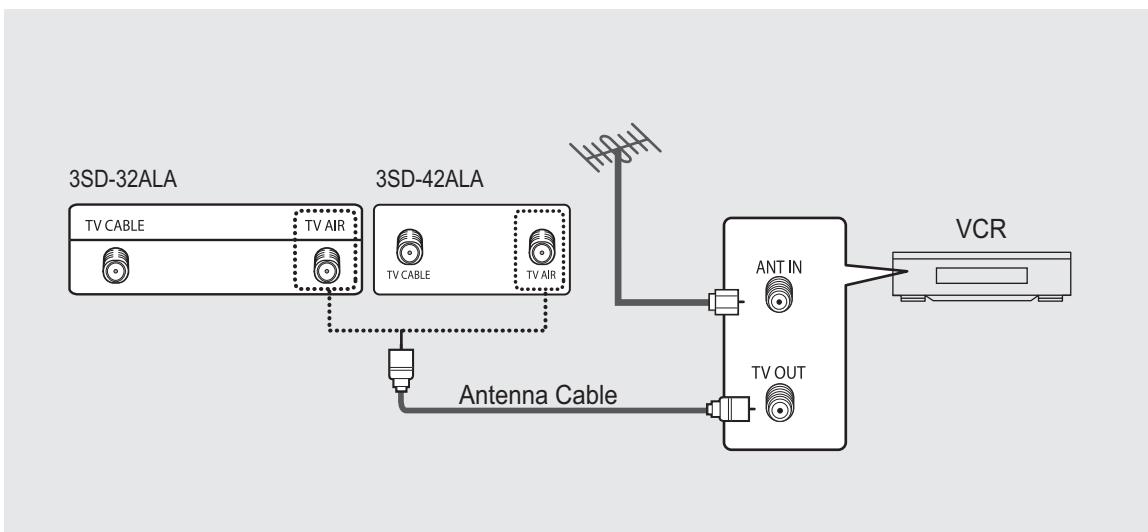
| 1 | Connect the antenna cable to the **[Antenna Input]** terminal at the back of the VCR. |

| 2 | Connect the same coaxial cable to the **[AIR]** terminal or **[CABLE]** terminal at the back of the TV or the **[TV OUT]** terminal at the back of the Video and TV. |

Caution ■ Avoid bending the copper tip of the coaxial cable.

Watching a VCR

1 Move the switch at the back of the VCR to **3** or **4**.

2 Turn the TV on and select Channel **3** or **4**.

3 Turn on the VCR and press the play button.
ex) Selecting Channel 4

CHANNEL
CH3 [   ] CH4

Air 4

● Mono

Connecting a DVD Player

External devices may have different connecting terminals.

Connecting to a DVD player

DVD Player

3SD-32ALA

COMPONENT 1 INPUT

AUDIO R   AUDIO L   Pr   Pb   Y

AUDIO R   AUDIO L   Pr   Pb   Y
COMPONENT 2 INPUT

3SD-42ALA

COMPONENT1
AUDIO INPUT

COMPONENT2
R   L

VIDEO INPUT

Pr/Cr   Pb/Cb   Y

COMPONENT OUT   AUDIO OUT

P   Pb   Pr   L   R

Componenet cable

Audio cable
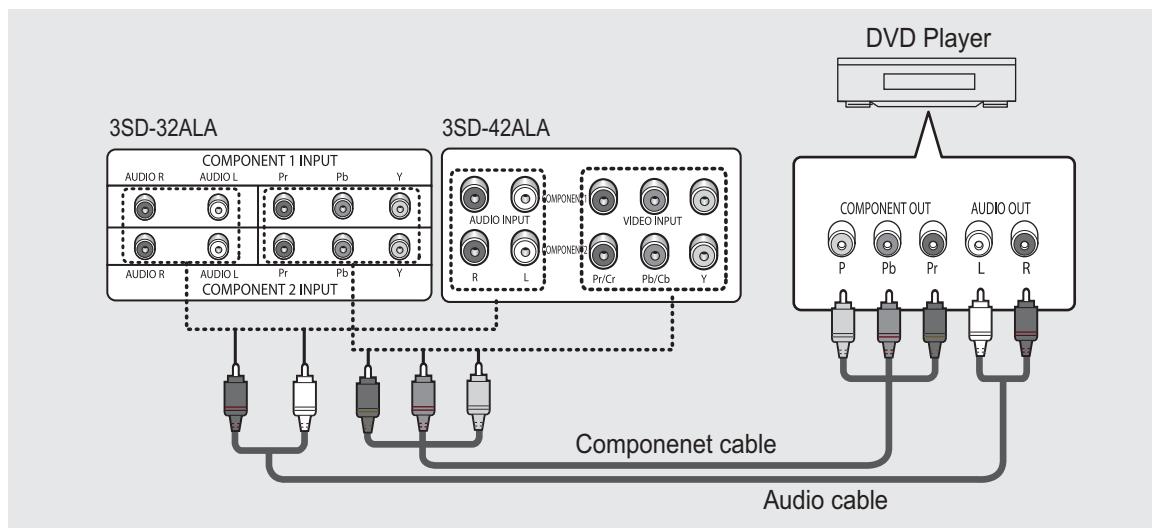
1 Connect the **[COMPONENT 1 video input]** or **[COMPONENT 2 video input Y, Pb, Pr]** (Green/Blue/Red) terminal at the back of the TV and the **[Component output]** on the DVD terminal.

2 Connect the **[COMPONENT 1 sound input left/right]** or the **[COMPONENT 2 sound input left/right]** (white/red) input terminal and the **[sound output]** (white/red) output terminal of the DVD with the sound connectors.

Caution ■ While connecting the component cable, and the output terminals Y, Pb, Pr are switched, the screen will appear red or blue.

Useful Tips ■ Depending on the brand of DVD player, the output terminals Y, Pb, Pr or Y, Cb, Cr will be marked.
■ If the DTV receiver supports DVI, it may be connected via an HDMI or DVI cable instead of a component cable.

Viewing a DVD

1 Turn on the TV, press the **INPUT** button, then select [COMPONENT1] or [COMPONENT2].
If [component] mode is not selected, check if the component connectors are connected.

2 Turn on the DVD player and press the play button on the DVD player.

Useful Tips ■ When connecting the [TV] and the [DVD] with the HDMI cable, press the [INPUT] button and select (HDMI).

INPUT

P.MODE   S.MODE   CH-LIST   AIR/CABLE

COMPONENT1

Connecting a Home Theater

External devices may have different connecting terminals

Connecting a Home Theater

Amp   DVD Home Theater

3SD-32ALA   3SD-42ALA

S/PDIF OUT
(OPTICAL)

S/PDIF OUT
(OPTICAL)

S/PDIF IN
(OPTICAL)
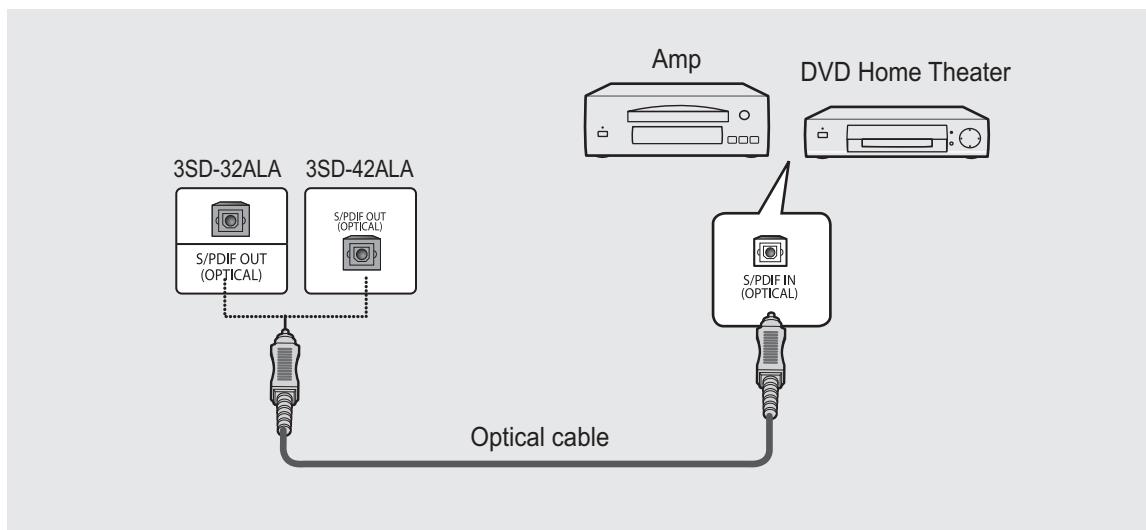
Optical cable

1 Connect the **[Digital Audio Output]** at the back of the TV and the **[Digital Audio input]** terminal of the DVD Home Theater (or AV amp) using an optical digital sound cable.

2 Press **MUTE** to turn off the sound of the TV, or set the [Internal Speaker] to [Off].(Refer to p.66)

Useful Tips
- See the amplifier instructions for connecting the speakers and the DVD Home Theater or AV Amp.
- Connect the [Digital Audio output] terminal at the back of the TV to the DVD Home Theater or AV Amp to view digital broadcasts using 5.1 channel speakers.

Watching a DVD title with Home Theater

1 Turn on the TV and press the **INPUT** button to select [COMPONENT1] or [COMPONENT2].
If [COMPONENT] mode is not selected, check if the component cable is connected properly.

2 Turn on the DVD Home Theater and test it by playing a DVD title.

Useful Tips
- See the instructions for the DVD Home Theater or for Connecting and Using a DVD Player (refer to p.31) for the DVD video input.
- To connect a TV and a DVD Home Theater using an HDMI cable, press the [INPUT] button to select (HDMI).

INPUT

P.MODE   S.MODE   CH-LIST   AIR/CABLE

COMPONENT1

Connecting a Cable/Satellite

A proper cable or satellite provider is required
External devices may have different connection terminals

Connecting to Video/Audio
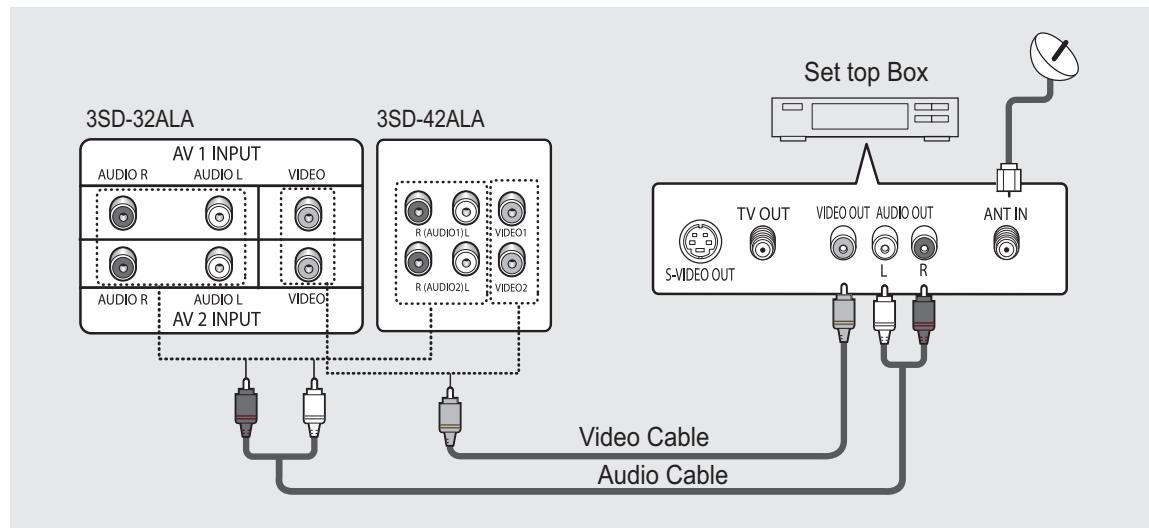
1 Connect the cable/satellite antenna to the **[Aantenna signal input]** on the rear panel of the receiver.

2 Connect the **[AV1 video input]** or **[AV2 video input]** (Yellow) terminal to the rear panel of the Cable/Satellite receiver using video connectors.

3 Connect the **[AV1 sound input left/right]** or **[AV2 sound input left/right]** (white/red) terminal to the rear panel of the Cable/Satellite receiver using audio connectors.

Watching Cable/Satellite broadcast

1 Turn on the TV, press **INPUT** and select [VIDEO1] or [VIDEO2].

2 Turn on the cable/satellite receiver and select the channel you want to watch using the remote control.

> **Useful Tips** ■ If you have connected the TV and cable receiver using an S-Video cable, press [INPUT] and select (S-VIDEO).

Connecting with a coaxial cable

Set top Box

3SD-32ALA

| TV CABLE | TV AIR |

3SD-42ALA

TV CABLE TV AIR

TV OUT   VIDEO OUT AUDIO OUT   ANT IN

S-VIDEO OUT   L   R
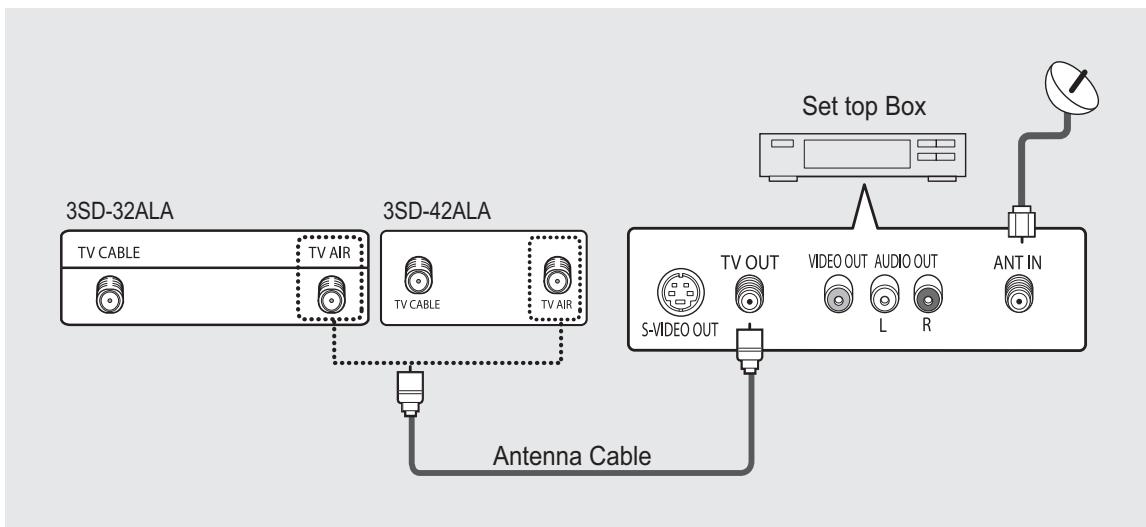
Antenna Cable

1 Connect the Cable/Satellite antenna cable to the **[Antenna signal input]** terminal of the rear panel.

2 Connect the **[CABLE]** on the back of the TV to the **[TV signal output]** terminal on the back of the Cable/Satellite receiver.

Precautions ■ Avoid bending the copper tip at the center of the coaxial cable.

Useful Tips ■ If you would like to record cable/satellite programs, in step (2), instead of pressing [CABLE], connect the [Antenna input] terminal and the receiver's [TV signal output] (Refer to the instruction manual of the VCR).

Watching Cable/Satellite

1 Set the dip switch on the rear panel of the Cable/Satellite receiver to **3** or **4**.

2 Turn on the TV and select channel **3** or **4**.

3 Turn on your cable/satellite receiver and select channels using the remote control.

CHANNEL

CH3 ▭ CH4

Air 4

● Mono

Connecting a Camcorder/Gaming Device

Applies to all external devices connected to the video/sound terminal.

Connecting a camcorder or Gaming Device
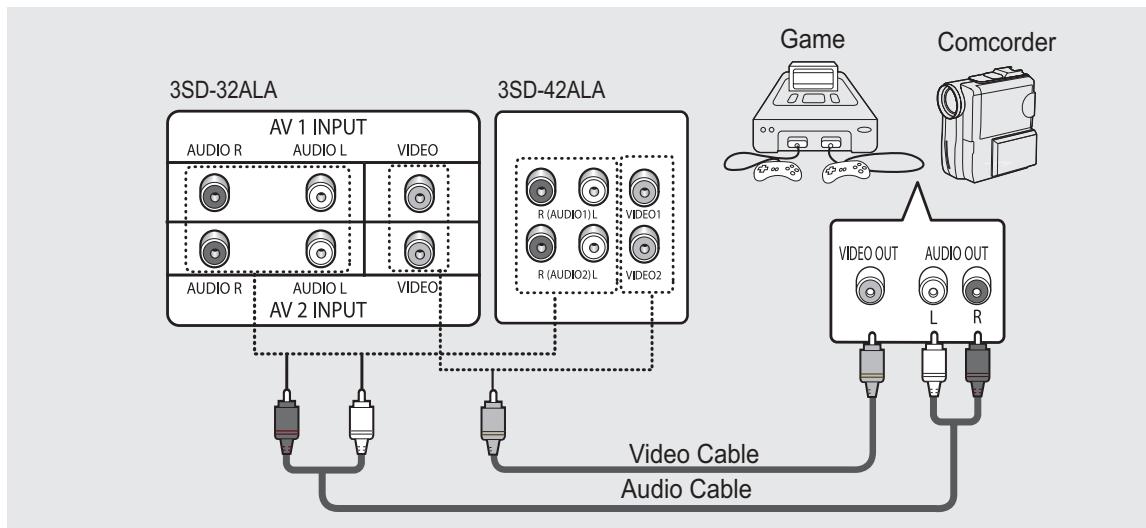
1 Connect the **[AV1 video input]** on the rear panel of the TV or the **[AV2 video input]** (Yellow) to the [video output] (yellow) of the external device using the video cable.

2 Connect the **[AV1 sound input left/right]** or the **[AV2 sound output left/right]** (white/red) terminal to the **[Sound output]** (white/red) terminal of the external device using a sound cable.

3 Connect the TV and camcorder after all other connections are done.

Useful Tips
- Connect the Gaming Device and other devices as above.
- If your Gaming Device has a [component output] terminal, then connect the [component sound/video input] terminal of the TV and the [Component sound/ video output] terminal of the Gaming Device.

Watching recorded materials from the camcorder

1 Turn on the TV and press **INPUT**, then select [AV1] or [AV2].
If you cannot select the external input, check the video cable connection.

2 Press the play button on the camcorder.
For detailed descriptions refer to the camcorder instruction manual.
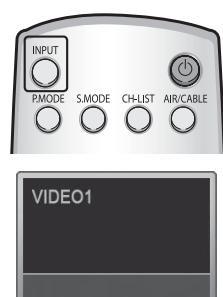
Connecting a HDMI Connection

Connecting via HDMI

DVD home Ser??

3SD-32ALA 3SD-42ALA

HDMI/DVI
VIDEO-IN

HDMI/
DVI VIDEO IN

HDMI OUT

HDMI cable
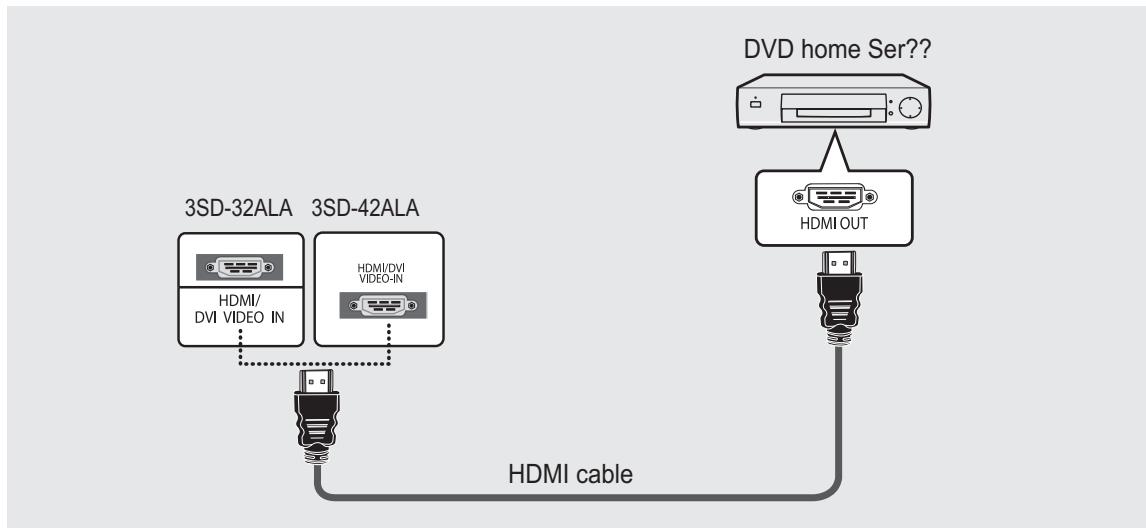
1 Connect the **[HDMI/DVI input]** terminal at the back of the TV and the **[HDMI]** terminal of the external device.

2 Connect the TV and the external device after all other connections are done.

■ **What is HDMI (High-Definition Multimedia Interface)?** A next generation interface that connects the digital audio and video signals using only one cable without compression. The sound signal also carries multi-channel (5:1 Channel) so that it isproperly called a multimedia interface rather than a video terminal. The difference between HDMI and DVI is that the size is smaller; HDCP has an embedded cipher function and supports multi channel audio.

Watching HDMI

1 Turn on the TV and press INPUT, then select [HDMI].

2 Place a DVD title into an external device connected via HDMI and press play.

Useful Tips ■ You can watch by connecting AV devices such as a set-top-box, a DVD player, an AV receiver, or DTV that supports the HDMI connection.

INPUT

P.MODE S.MODE CH-LIST AIR/CABLE
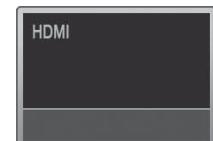
HDMI

Connecting a DVI Connection

Connecting via DVI

DVD ???

3SD-32ALA   3SD-42ALA

DVI
AUDIO-IN

HDMI/DVI
VIDEO-IN

DVI
AUDIO IN

HDMI/
DVI VIDEO IN

DVI OUT   AUDIO OUT

L   R

HDMI/DVI cable
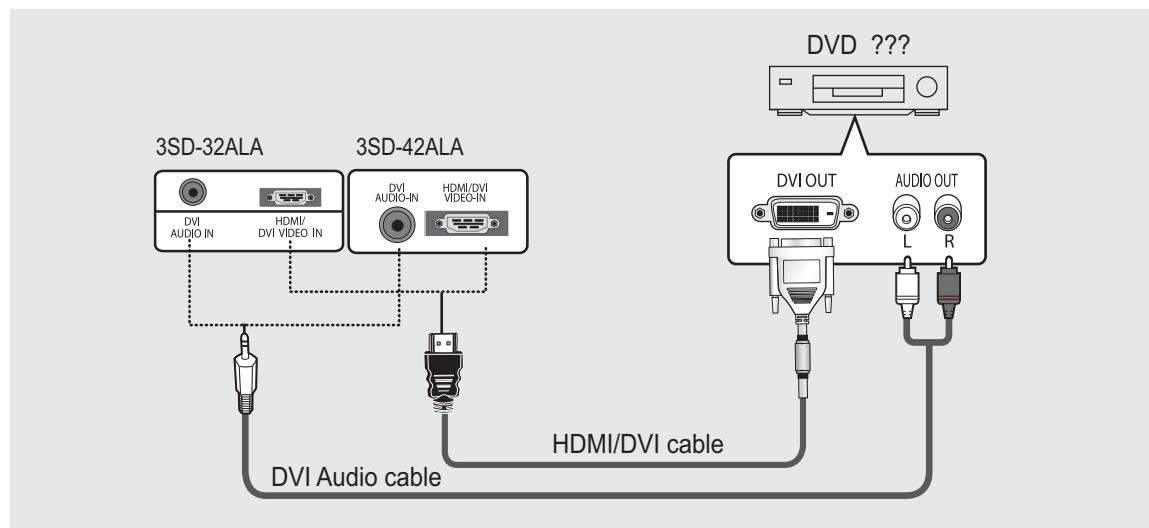
DVI Audio cable

1 Connect the **[HDMI/DVI Input]** terminal and the **[DVI]** output terminal of the external device.

2 Connect the **[DVI Audio input]** using the DVI audio cable (sold separately).

3 After this is completed, turn on the power of the TV and the external device.

Useful Tips ■ When connecting equipment using a DVI connection cable, use a DVI-HDMI gender (sold separately) or on one side HDMI other side DVI type of connection cable (HDMI/DVI connecting cable - not included in packet - sold separately)

Watching stream via the DVI connector

1 Turn on the TV and press [INPUT], then select <HDMI>.

2 Operate the external device connected via DVI.

INPUT

P.MODE S.MODE CH-LIST AIR/CABLE

HDMI

35

Connecting a PC

Connecting a PC

3SD-32ALA

3SD-42ALA

VGA
AUDIO IN   TV CABLE

PC
AUDIO-IN

VGA
VIDEO-IN   S/PDIF OUT
(OPTICAL)

PC

VGA
VIDEO IN

PC Rear

PC Video cable
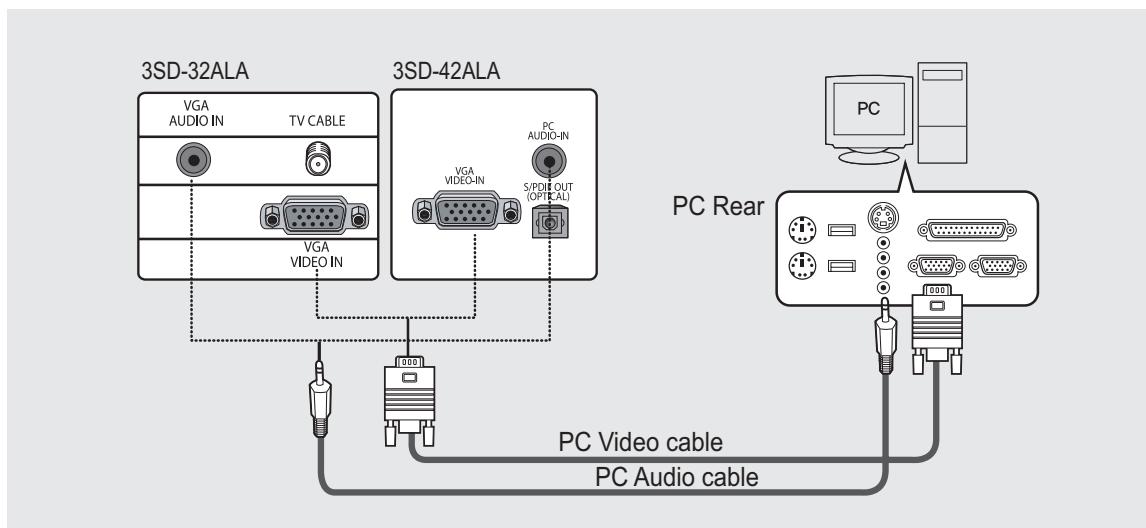
PC Audio cable

| **1** | Connect the **[PC input]** and the PC monitor output using a PC video cable. |

| Useful Tips | ■ Audio output is only available for PCs with a sound output terminal |

| **2** | Connect the **[PC audio input]** and the PC audio output using a PC audio cable. |

| **3** | After this is completed, turn on the power of the TV and the PC. |

Watching a PC screen on a TV

1 Turn on the PC and check if your PC settings are correct.
■ If they are not correct, your screen will be doubled or distorted.
■ Setting up your PC is referred to in p.90.

2 Turn on the TV and press **INPUT**, then select [PC].

3 Adjusting the PC screen.
Refer to p.x91~95 for adjustments

INPUT

P.MODE S.MODE CH-LIST AIR/CABLE

PC
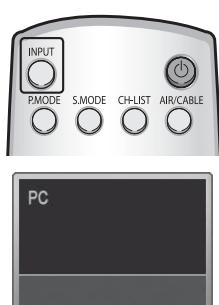
TV/ External Input Settings

You can change the signal of the TV or of the external device connected to your TV.
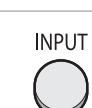
1	INPUT	Press **INPUT**. The external input list will appear.	Main Source TV AV1 AV2 S-VIDEO COMPONENT1 COMPONENT2 HDMI PC EXIT
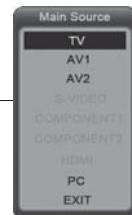
2	OK	Press ▲/▼ to move to an input mode, then press **OK**. Move to the selected external input screen.

Useful Tips ■ Check if the connecting cables are properly connected if the input mode was not selected.
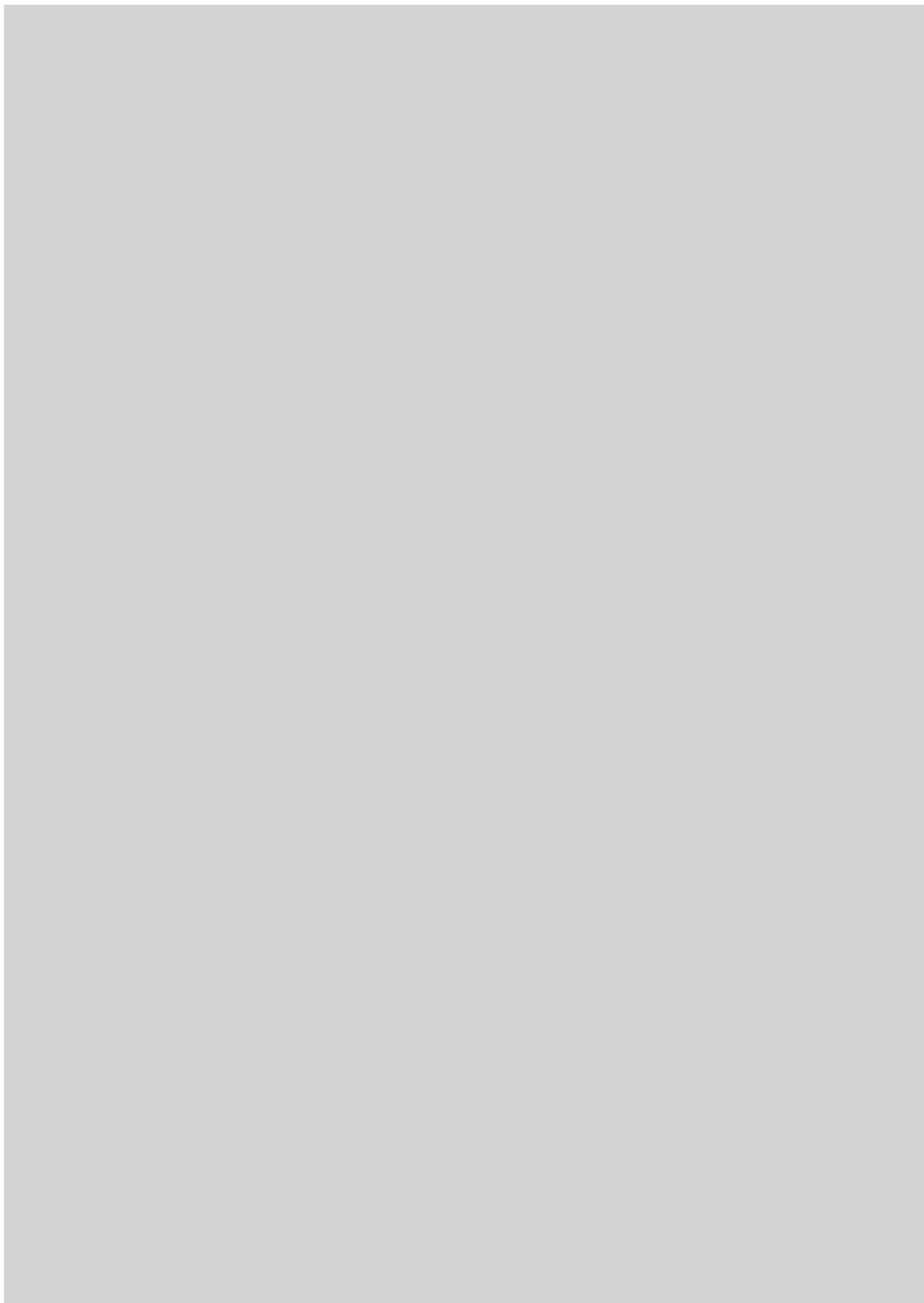
Chapter 3 Screen Adjustments

Screen Mode Setting

Press [P.MODE] to recall a pre-set screen type

P.MODE	Press **P.MODE**. Each press of the button changes the picture mode from [Standard] → [Dynamic] → [Mild] → [Manual].

**1** | MENU | Press **MENU**.
The Menu will appear.

2 | OK | Press ▲/▼ to move to **Picture**, then press **OK**.
The [Picture] Menu will appear.
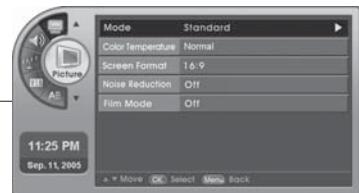
3 | OK | Press ▲/▼ to move to **Mode**, then press **OK**.
The [Mode] Menu will appear.

4 | OK | Press ► to select a screen mode.
[Standard], [Dynamic], [Mild], [Manual] can be
selected.

5 | EXIT | Press **EXIT** to exit the menu.

Screen Mode	
Standard	The manufacturer default for the optimal conditions, status.
Dynamic	Select this for a brighter screen. You will be able to see the screen more clearly.
Mild	Select this for a darker screen. It has the advantage of saving power and making your eyes less tired.
Manual	You can select your own defined screen setting conditions.

Screen Custom Mode Settings

Screen Adjustment Menu
- **Brightness**: Brightens or darkens the screen
- **Contrast**: Adjusts the difference in brightness between objects and the background
- **Sharpness**: Controls blurring and transparency
- **Color**: Controls the lightness or darkness of the colors
- **Tint**: Adds red or green to the picture

Adjusting the user screen

1 **Before Starting:** The **Mode** needs to be changed to **Manual** in the menu.

2 Press ▲/▼ and move to a menu, then press **OK**.
An additional adjustment bar will appear.
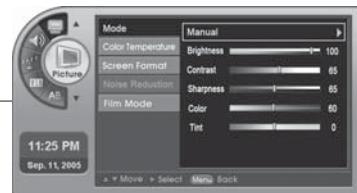
3 Press ▲/▼ and move to a location, then press **OK**.
Press ◄/► to move to [Brightness], [Contrast], [Sharpness], [Color] or [Tint].

4 Press **EXIT** to exit the menu.

Useful Tip	■ Adjusted values will be save as a (Manual) mode value.
	■ Screen mode and custom value adjustments will be saved individually (TV, external input1,2, S-Video etc).

Screen Color Settings

1 MENU
Press **MENU**.
The Menu will appear.

2 OK
Press ▲/▼ to move to **Picture**, then press **OK**.
The [Picture] Menu will appear.

Mode	Dynamic	▶
Color Temperature	Normal	
Screen Format	16:9	
Noise Reduction		
Film Mode	Off	

Picture

11:25 PM
Sep. 11, 2005

▲ ▼ Move OK Select Menu Back

3 OK
Press ▲/▼ to move to **Color Temperature**,
then press **OK**.
The [Color Temperature] Menu will appear.

Mode	
Color Temperature	
Screen Format	✓ Normal
Noise Reduction	Cool
Film Mode	Warm

Picture

11:25 PM
Sep. 11, 2005

▲ ▼ Select Menu Back
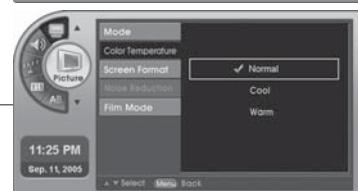
4 OK
Press ▲/▼ to move to a menu.
Press ▲/▼ to move to [Normal], [Cool] or [Warm].

5 EXIT
Press **EXIT** to exit the menu.

Useful Tips
■ The PC and HDMI inputs support not only
screen color mode but also R,G,B custom
mode functions.
■ The screen color mode and custom
adjustment value (PC,HDMI) are saved
individually (TV, AV1, 2, S-VIDEO etc).

Unstable Screen

If a dashed line or no color appears, the screen is unstable, therefore try channel adjustments.
(This is only available for analog broadcasting.)

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Channel**, then press **OK**.
The [Channel] Menu will appear.

Antenna	Air	▶
Auto Memorizing		
Channel List		
Fine Tune	Auto	
Signal Strength		

11:25 PM
Sep. 11, 2005

▲ ▼ Move   OK Select   Menu Back

3 Press ▲/▼ to move to **Fine Tune**, then press **OK**.
The [Fine Tune] Menu will be selected.

Antenna	If you press '0' button,
Auto Memorizing	auto mode is selected.
Channel List	
Fine Tune	0
Signal Strength	Now auto fine-tuned.

11:25 PM
Sep. 11, 2005

◄ ► Adjust   Menu Back

4 Press ◄/► to adjust.

5 Press **EXIT** to exit the menu.

Undoing a channel adjustment

1 From step 4 above, pressing **Number 0** will change the value to '0' and automatically make minor channel adjustments.
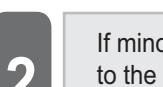
2 If minor channel adjustment is on manual, then changing to the current channel will not perform automatic channel adjustment.

Film Mode Settings

Set your selection to (ON) to watch your movies titles at the best quality.
You will be able to watch with a more realistic movie screen.

1 MENU
Press **MENU**.
The Menu will appear.

2 OK
Press ▲/▼ to move to **Picture**, then press **OK**.
The [Picture] Menu will appear.

Mode	Dynamic	▶
Color Temperature	Normal	
Screen Format	16:9	
Noise Reduction		
Film Mode	Off	

11:25 PM
Sep. 11, 2005
▲ ▼ Move OK Select Menu Back
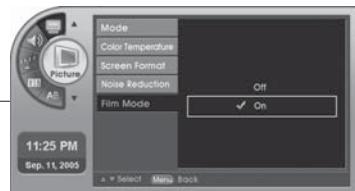
3 OK
Press ▲/▼ to move to **Film Mode**, then press **OK**.
The [Film Mode] Menu will appear.

Mode	
Color Temperature	
Screen Format	Off
Noise Reduction	
Film Mode	✓ On

11:25 PM
Sep. 11, 2005
▲ ▼ Select Menu Back

4 OK
Press ▲/▼ to move to **On**.
Press ▲/▼/ to toggle [Film Mode] between [Off] and [On].

5 EXIT
Press **EXIT** to exit the menu.

> **Useful Tips** ■ Even if film mode is activated, the signal status may tak precedence.

Adjusting the Screen Size

You can select the size of the screen depending on the type of program.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Picture**, then press **OK**.
The [Picture] Menu will appear.
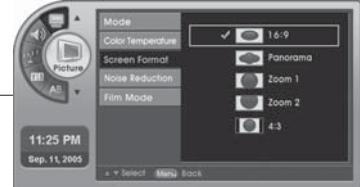
3 Press ▲/▼ to move to **Screen Format**, then press **OK**.
The [Screen Format] Menu will appear.
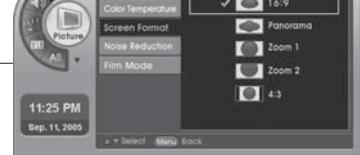
4 Press ▲/▼ to select a **Screen Format**.
The screen size will be selected.

5 Press **EXIT** to exit the menu

Useful Tips
- Depending on the input signal, the screen size may not be selected.
- The screen size may be saved individually according to the input signal (digital TV, analog TV, external input1,2, S-video etc).

ASPECT

Press **ASPECT**.
Each press switches between [16:9], [Panorma],
[Zoom1], [Zoom2] and [4:3].

Screen Size Menu

■ **16:9**
The screen size for DVDs or wide broadcast programs.

■ **Panoram**
A 16:9 screen shown as naturally as a 4:3 screen.

■ **Expansion**
Expands the 4:3 screen sideways and shows only the
center area.

■ **Caption Expansion**
Expands the 4:3 screen and prevents the captions
shown at the bottom of the screen from being cut off.

■ **4:3**
For video and the current broadcast screen ratio.

Precautions ■ If you force a still picture or use the basic (4:3)
screen over a long time, then the LCD TV can
show some residual images. These problems
are not covered by the warranty. If possible try
to utilise full screen mode.

Useful Tips ■ Some screen modes might not be selectable
depending on the input signal.
■ While watching digital broadcasting or if the
input mode is HDMI or via PC, only the 4:3 or
16:9 screens can be selected.
■ For HDMI input, the screen size selection can
be either PC mode or TV mode. The difference
is the ratio of the amount cut left, right, at the
top and below.

PIP (Picture-in-Picture) Settings

Two channels can be viewed from one screen.

| PIP | Press **PIP**.
You will only hear sound from the main screen. |

1 | Press **MENU**.
The Menu will appear.

2 | Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.
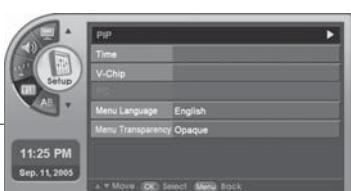
3 | Press ▲/▼ to move to **PIP**, then press **OK**.
The [PIP] Menu will appear.

4 | Press ▲/▼ to move to **Mode**, then press **OK**.
The [Mode] Menu will appear.
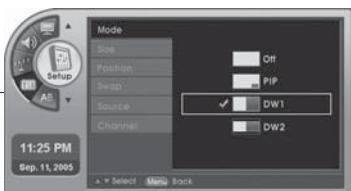
5 | Press ▲/▼ to select the Sub-Screen mode.
■ The PIP screen will be selected.
■ Selecting [Cancel] cancels the PIP screen.

6 | Press **EXIT** to exit the menu.

PIP Screen Selection Table

O : Available. Main to sub switchable.
X : Unavailable.

[PIP] also main to sub switchable.

Sub \ Main	DTV	Analog TV	External input 1	External input 2	S-video	Component 1	Component 2	PC	HDMI
DTV	X	X	X	X	X	X	X	X	X
Analog TV	O	O	O	O	O	O	O	O	O
External Input1	O	O	X	O	O	O	O	O	O
External Input2	O	O	O	X	O	O	O	O	O
S-video	O	O	O	O	X	O	O	O	O
Component1	O	O	O	O	O	X	O	O	O
Componen2	O	O	O	O	O	O	X	O	O
PC	X	X	X	X	X	X	X	X	X
HDMI	X	X	X	X	X	X	X	X	X

Adjusting the Sub-Screen Contents

You can switch the screen of an external device connected to the Sub-Screen.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Setup**, then select **OK**.
The [Setup] Menu will appear.

**3** Press ▲/▼ to move to **PIP**, then press **OK**.
The [PIP] Menu will appear.
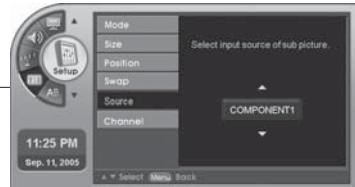
4 Press ▲/▼ to move to **Source**, then press **OK**.
The [Source] Menu will appear.

5 Press ▲/▼ to select the input on the Sub-Screen.
You can view your selection on the Sub-Screen.

6 Press **EXIT** to exit the menu.

Useful Tip
■ The selected devices of the Sub-Screen depend on the main screen.
■ Refer to page 49 for the two in one setting.
[PIP] can also be switched.

Switching the Main and Sub-Screen

You can switch the main and Sub-Screen with each other.

1 MENU
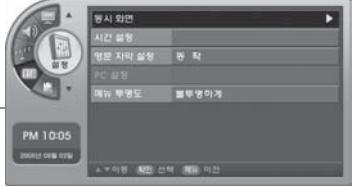
Press **MENU**.
The Menu will appear.

2 OK

Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 OK

Press ▲/▼ to move to **PIP**, then press **OK**.
The [PIP] Menu will appear.

4 OK
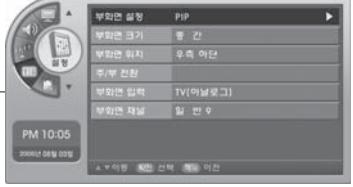
Press ▲/▼ to move to **Swap**, then press **OK**.
The [Swap] Menu will appear.

5 OK

Press **OK**.
Each press will toggle the screens.

6 EXIT

Press **EXIT** to exit the menu.

Useful Tip ■ [SWAP] can also be used to switch the screens.

Adjusting the Sub-Screen Size

You can adjust the size of the Sub-Screen.

1 Press **MENU**.
The Menu will appear.
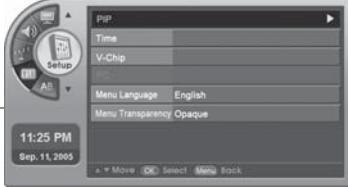
2 Press ▲/▼ to move to **Setup**, then select **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **PIP**, select **OK**.
The [PIP] Menu will appear.
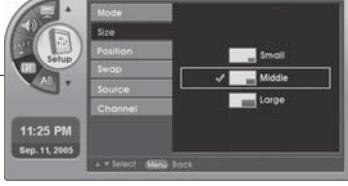
4 Press ▲/▼ to move to **Size**, then press **OK**.
The [Size] Menu will appear.

5 Press ▲/▼ to select the size of the Sub-Screen.
The size of the Sub-Screen will be selected.
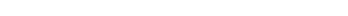
6 Press **EXIT** to exit the menu.

Useful Tips ■ Adjusting the Sub-Screen size can only be done in PIP mode.

Adjusting the Sub-Screen Position

You can adjust the Sub-Screen position of all 4 corners.

1 MENU
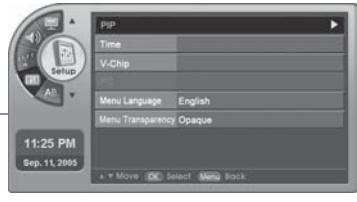
Press **MENU**.
The Menu will appear.

2 OK

Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 OK

Press ▲/▼ to move to **PIP**, then press **OK**.
The [PIP] Menu will appear.

4 OK

Press ▲/▼ to move to **Position**, then press **OK**.
The [Position] Menu will appear.

5 OK

Press ▲/▼ to select the size of the Sub-Screen.
The size of the Sub-Screen will be selected.

6 EXIT
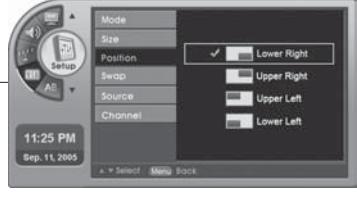
Press **EXIT** to exit the menu.

Useful Tips
- Adjusting the position of the Sub-Screen can only be done in PIP mode.
- The [POSITION] can also toggled.

Adjusting the Sub-Screen Channel

You can adjust the channel in the Sub-Screen.

1 Press **MENU**.
The Menu will appear.
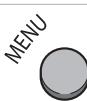
2 Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **PIP**, then press **OK**.
The [PIP] Menu will appear.

4 Press ▲/▼ to move to **Channel**, then press **OK**.
The [Channel] Menu will appear.

5 Press ▲/▼ to select the channel in the Sub-Screen.
The channel in the Sub-Screen will be selected.

6 Press **EXIT** to exit the menu.

Useful Tips ■ Only use the channel function when the Sub-Screen is analog TV.
■ [CH +/ -] can also be toggled.

Capturing a Still screen

You can pause a scene on the screen.

1

STILL

Press **STILL**.
Each press of the button will capture a still image.

Useful Tips ■ Audio will continue to operate while the screen is paused.

■ Pressing a channel number or input signal will automatically cancel the function.
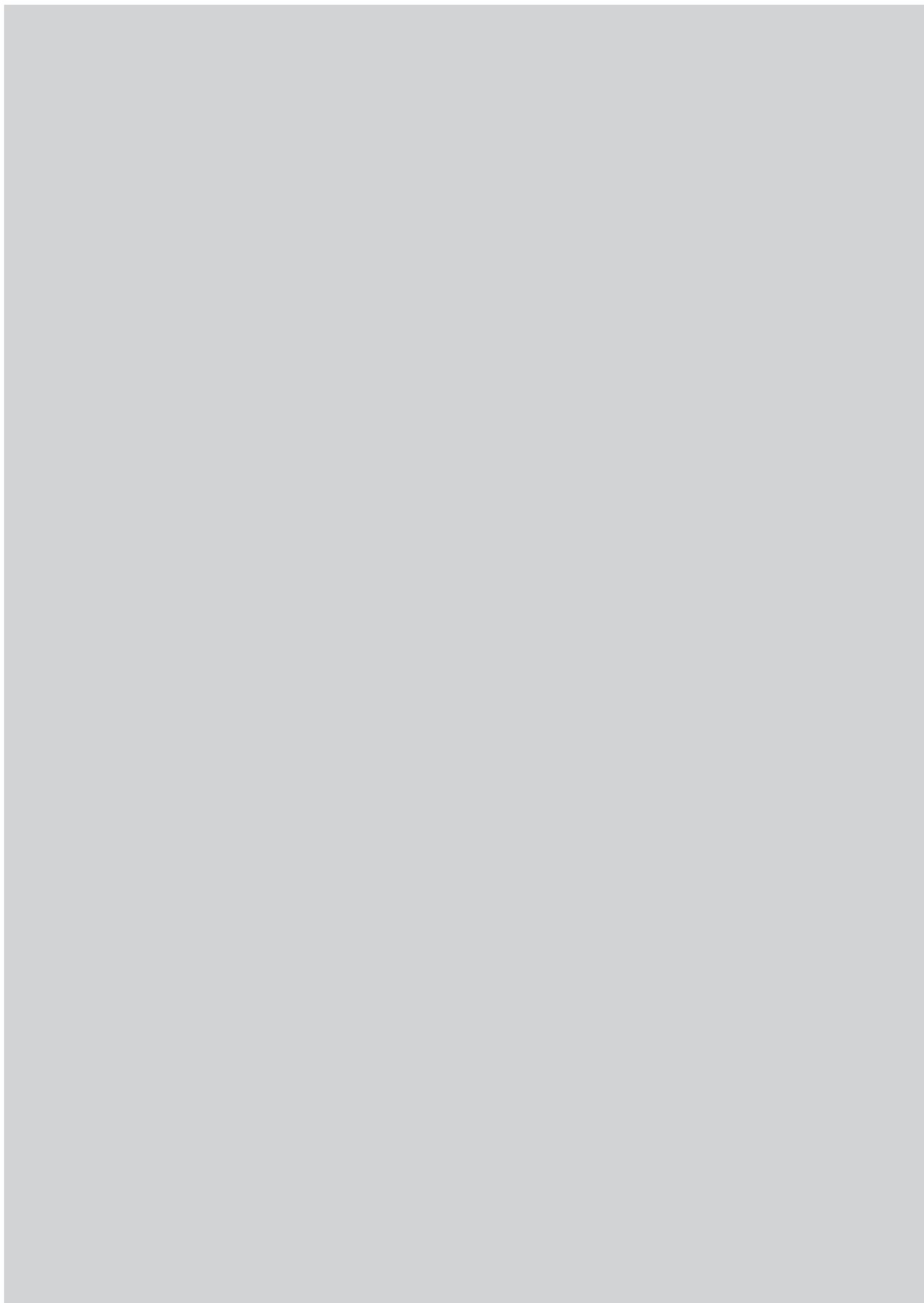
Chapter 4 Sound Settings

Sound Mode Settings

You can adjust the mode to Music, Movie, Sports, or News depending on the type of program you are watching.

1 Press **MENU**.
The Menu will appear.
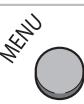
2 Press ▲/▼ to move to **Sound**, then press **OK**.
The [Sound] Menu will appear.

3 Press ▲/▼ to move to **Mode**, then press **OK**.
The [Mode] Menu will appear.
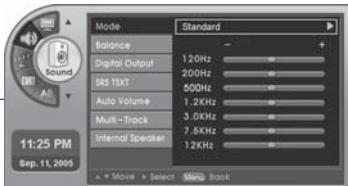
4 Press ► to select a sound mode.
Pressing ► will change the settings to [Standard], [Music], [Movie], [News], [Sports] or [Manua].

5 Press **EXIT** to exit the menu.

Sound mode	
Standard	Basic sound mode.
Music	Experience live and natural sound.
Movie	Experience the marvels of surround sound as in a movie theater.
Sports	Experience the passion of the real playground.
News	You can hear the sound of the newsanchor clearly.
Manua	You can create your own sound mode.

Custom Sound Mode Settings

You can adjust low/high sound as required.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Sound**, then press **OK**.
The [Sound] Menu will appear.

3 Press ▲/▼ to move to **Mode**, then press **OK**.
The [Mode] Menu will appear.

4 Press ► to select **Manual** mode.
The [Manual] menu will appear.

5 Press ▲/▼ to select either low or high sound
as required, then press ◄/► to change the
volume.
Adjust to low or high sound.

6 Press **EXIT** to exit the menu.

Useful Tips ■ You can use the equalizer to adjust [Standard],
[Music], [Movie], [Sports], [News] mode to
change the [Mode] to [Manual].

SRS TruSurround XT Mode Settings

What is SRS TruSurround XT? You can experience marvelous 'live' sound as if listening to multi-channels using only two speakers.

SRS

Press **SRS**.
Each press toggles between [Off], [3D Mono] and [Stereo].

1 MENU

Press **MENU**.
The Menu will appear.

2

Press ▲/▼to move to **Sound**, then press **OK**.
The [Sound] Menu will appear.

Mode	Standard	▶
Balance		
Digital Output	Dolby Digital	
SRS TSXT	Off	
Auto Volume	Off	
Multi-Track	English	
Internal Speaker	Off	

11:25 PM
Sep. 11, 2005

▲ ▼ Move OK Select Menu Back

3

Press ▲/▼ to move to **SRS TSXT**, then press **OK**.
The [SRS TSXT] Menu will appear.

Mode	
Balance	
Digital Output	
SRS TSXT	Off
Auto Volume	✓ 3D Mono
Multi-Track	Stereo
Internal Speaker	

11:25 PM
Sep. 11, 2005

▲ ▼ Select Menu Back

4

Press ▲/▼ to select a SRS TruSurround mode.
■ [3D Mono] or [Stereo] will be selected.
■ Selecting [Off] will cancel SRS TriSurround XT mode.

5 EXIT

Press **EXIT** to exit the menu.

TRADEMARK & LABEL LICENSE NOTICE

SRS **TruSurroundXT** is a trademark of SRS Labs, Inc.
TruSurround technology is incorporated under license from SRS Labs, Inc.

SRS TruSurround XT

■ Off : Cancels SRS TruSurround XT mode.
■ 3D Mono : Sets SRS TruSurround XT to 3D mono.
■ Stereo : Sets SRS TruSurround XT to stereo.

Sound Balance Settings

You can balance your speakers for better sound quality.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Sound**, then press **OK**.
The [Sound] Menu will appear.

3 Press ▲/▼ to move to **Balance**, then press **OK**.
The [Balance] Menu will appear.
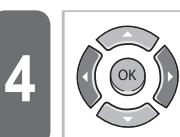
4 Press ◄/► to change the sound to the left/right.
You can adjust the volume of the left/right speaker.
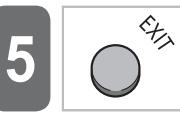
5 Press **EXIT** to exit the menu.

Digital Audio Output Settings

You can select your digital audio output as (Dolby Digital) or (PCM).

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Sound**, then press **OK**.
The [Sound] Menu will appear.

Mode	Standard
Balance	
Digital Output	Dolby Digital
SRS TSXT	Off
Auto Volume	Off
Multi~Track	English
Internal Speaker	Off

11:25 PM
Sep. 11, 2005
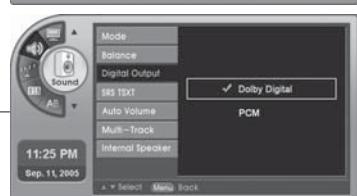
3 Press ▲/▼ to move to **Digital Output**, then press **OK**.
The [Digital Output] Menu will appear.

Mode	
Balance	
Digital Output	
SRS TSXT	✓ Dolby Digital
Auto Volume	PCM
Multi~Track	
Internal Speaker	

11:25 PM
Sep. 11, 2005

4 Press ▲/▼ to move to **Dolby digital** or **PCM**, then press **OK**.
With Digital sound, [Dolby digital] or [PCM] will be output.

5 Press **EXIT** to exit the menu.

Dolby Digital
This product is under licence of Dolby Laboratories.
The "Dolby" or D symbol is a trademark of Dolby Laboratories.

Useful Tips
- [Dolby digital] can be selected while a digital broadcast is on or HDMI is connected.
- HDMI can only be used when dolby digital audio is allowed. If not, PCM will be output no matter what mode has been set.
- PCM (Pulse Coded Modulation): A digital signal without compression; with optical output your sound output will be used for the AV Amp that cannot support Dolby Digital 5.1 channel.

Automatic Volume Control Settings

You can automatically adjust the sound level of different channels to the proper volume level which make it out differently from each channel.

1 MENU — Press **MENU**.
The Menu will appear.

2 OK — Press ▲/▼ to move to **Sound**, then press **OK**.
The [Sound] Menu will appear.

Mode	Standard
Balance	
Digital Output	Dolby Digital
SRS TSXT	Off
Auto Volume	Off
Multi~Track	English
Internal Speaker	Off

11:25 PM
Sep. 11, 2005

▲ ▼ Move OK Select Menu Back

3 OK — Press ▲/▼ to move to **Auto Volume**, then press **OK**.
The [Auto Volume] Menu will appear.

Mode	
Balance	
Digital Output	
SRS TSXT	Off
Auto Volume	✓ On
Multi~Track	
Internal Speaker	

11:25 PM
Sep. 11, 2005

▲ ▼ Select Menu Back

4 OK — Press ▲/▼ to move to **On** or **Off**, then press **OK**.

5 EXIT — Press **EXIT** to exit the menu.

Sound (Digital Broadcasting) Setting

MTS

Press **MTS** to listen to other languages.
- When English is set as the primary language, pressing [MTS] will change between [English], [Spanish], and [French] in this order.
  (Languages are only available when provided by a broadcasting station.)
- When changing the channel, the set language will be selected.

1 MENU
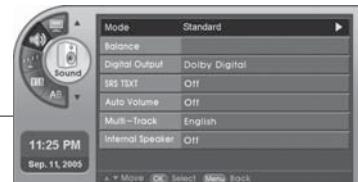
Press **MENU**.
The Menu will appear.

2 OK

Press ▲/▼ to move to **Sound**, then press **OK**.
The [Sound] Menu will appear.

Mode	Standard	▶
Balance		
Digital Output	Dolby Digital	
SRS TSXT	Off	
Auto Volume	Off	
Multi-Track	English	
Internal Speaker	Off	

11:25 PM
Sep. 11, 2005

▲ ▼ Move OK Select Menu Back

3 OK

Press ▲/▼ to move to **Multi-Track**, then press **OK**.
The [Multi-Track] Menu will appear.

Mode	
Balance	
Digital Output	✓ English
SRS TSXT	
Auto Volume	Español
Multi-Track Sound	Français
Internal Speaker	

11:25 PM
Sep. 11, 2005

▲ ▼ Select Menu Back

4 OK
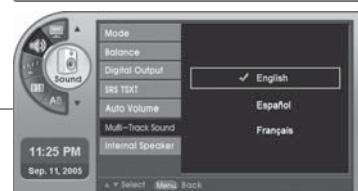
Press ▲/▼to select English, **Spanish**, or **French**, then press **OK**.
The sound settings primarily set up the language. But in the menu, you can select your favorite language settings no matter what the broadcasting status.

5 EXIT

Press **EXIT** to exit the menu.

Sound (Analog Broadcasting) Settings

MTS

Press **MTS**.
You can select your favorite settings [Mono], [Stereo] or [SAP].

1 MENU

Press **MENU**.
The Menu will appear.

2 OK

Press ▲/▼ to move to **Sound**, then press **OK**.
The [Sound] Menu will appear.

Mode	Standard
Balance	
Digital Output	Dolby Digital
SRS TSXT	Off
Auto Volume	Off
Multi-Track	English
Internal Speaker	Off

11:25 PM
Sep. 11, 2005

▲ ▼ Move   OK Select   Menu Back

3 OK

Press ▲/▼ to move to **Multi-Track**, then press **OK**.
The [Multi-Track] Menu will appear

Mode	
Balance	
Digital Output	✓ Mono
SRS TSXT	
Auto Volume	Stereo
Multi-Track Sound	SAP
Internal Speaker	

11:25 PM
Sep. 11, 2005

▲ ▼ Select   Menu Back

4 OK

Press ▲/▼ to move to **Mono**, **Stereo** or **SAP**, then press **OK**.
The selected sound will be set.

5 EXIT

Press **EXIT** to exit the menu.

Useful Tips
■ The sound settings are only supported in TV (analog broadcast) mode.
■ [Stereo], [SAP] will only operate when a network signal is available.

While Mono is on air
■ All modes will have mono sound.

While Stereo is on air
■ Mono: Mono sound is selected.
■ Stereo: Stereo sound is selected.
■ SAP: Mono sound is selected.

While SAP is on air
■ Mono: Mono sound is selected.
■ Stereo: Mono sound is selected
■ SAP: SAP sound is selected.

Using External Speakers

If you set the internal amp to [OFF] while watching through a home theater system, the TV sound will be muted.

1 MENU

Press **MENU**.
The Menu will appear.

2 OK

Press ▲/▼ to move to **Sound**, then **OK**.
The [Sound] Menu will appear.

Mode	Standard
Balance	
Digital Output	Dolby Digital
SRS TSXT	Off
Auto Volume	Off
Multi–Track	English
Internal Speaker	Off

11:25 PM
Sep. 11, 2005

▲ ▼ Move OK Select Menu Back

3 OK
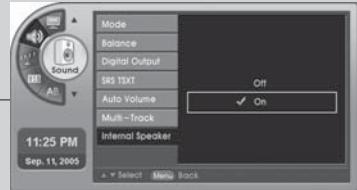
Press ▲/▼ to move to **Internal Speaker**, then press **OK**.
The [Internal Speaker] Menu will appear.

Mode	
Balance	
Digital Output	
SRS TSXT	Off
Auto Volume	✓ On
Multi–Track	
Internal Speaker	

11:25 PM
Sep. 11, 2005

▲ ▼ Select Menu Back

4 OK

Press ▲/▼ to select **Off**, then press **OK**.
The internal amp is turned off.

5 EXIT

Press **EXIT** to exit the menu.

Chapter 5 Time Settings

Automatic Time Settings

If you set your auto time setting, your time will be shown through digital broadcast received information.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Setup**, then Press **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **Time**, then Press **OK**.
The [Time] Menu will appear.

4 Press ▲/▼ to move to **Clock**, then press **OK**.
The [Clock] Menu will appear.

5 Press ▲/▼ to select **Auto**.

6 Press **EXIT** to exit the menu.

Useful Tips
■ The time will be set automatically by the digital broadcasting information.
■ There may be a slight error in the time depending on the broadcast station.
■ Pressing [INFO] will show the current time

Manual Time Settings

Setting the year, month, day, hours and minutes can be done by pressing the numeric buttons.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **Time**, then press **OK**.
The [Time] Menu will appear.

4 Press ▲/▼ to move to **Clock**, then press **OK**.
The [Clock] Menu will appear.

5 Press ▲/▼ to move to **Manual**, then press **OK**.
The [Manual Clock] item can be selected.

6 Press ▲/▼ to move to **Manual Clock**, then press **OK**.

7 Press ▲/▼/◄/► to change the **year**, **month**, **day**, **am/pm**, **hours** and **minutes**.

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

67

Time and Date Settings

Users can select Daylight Saving.

☞ **Before Startingl**

Set the [Clock] to Auto . Refer to page 68 ~ 69

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **Time**, then press **OK**.
The [Time] Menu will appear.

4 Press ▲/▼ to move to **Daylight Saving**, then press **OK**.
The [Daylight Saving] Menu will appear.

5 Press ▲/▼/◄/► to move to **Yes**, then press **OK**.
Select [Yes] for Daylight Saving, and [NO] to cancel Daylight Saving.

6 Press **EXIT** to exit the menu.

Time Zone Settings

Users can select the time zones.

☞ **Before Starting**
Set the [Clock] to auto. Refer to page 68 ~ 69

1   MENU

Press **MENU**.
The Menu will appear.

2

Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3

Press ▲/▼ to move to **Time**, then press **OK**.
The [Time] Menu will appear.

4

Press ▲/▼ to move to **Time Zone**, then select
**OK**.
The [Time Zone] Menu will appear.

5

Press ◄/► to move to your local area, then
press **OK**.

6   EXIT

Press **EXIT** to exit the menu.

TV Activation Time Settings

You can set a time for the TV to automatically turn-on.

☞ **Before Starting**
Setting the current time. Refer to page 68 ~ 69

1 MENU
Press **MENU**.
The Menu will appear.

2
Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3
Press ▲/▼ to move to **Time**, then press **OK**.
The [Time] Menu will appear.

4
Press ▲/▼ to move to **On Time**, then press **OK**.
The [On Time] Menu will appear.

5
Press ▲/▼/◄/► to set the **AM/PM**, **hours**, **minutes**, **channel**, **volume** and **time period to turn-on**.

6 EXIT
Press **EXIT** to exit the menu.

Useful Tips
- The turn on period can be set to [Cancel], [Everyday] or [Once].
- Cancel: Automatic turn-on will be
- Once: The TV automatically turns on ONCE at the set time.
- Everyday: The TV will turn on everyday at the set time.

TV Deactivation Time Settings

You can select the time to turn off the TV.

☞ **Before Starting**

Setting up the current time. Refer to page 68 ~ 69

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.
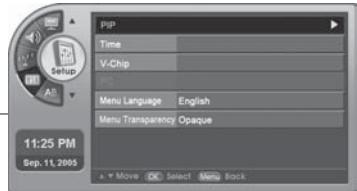
3 Press ▲/▼ to move to **Time**, then press **OK**.
The [Time] Menu will appear.

4 Press ▲/▼ to move to **Off Time**, then press **OK**.
The [Off Time] Menu will appear.
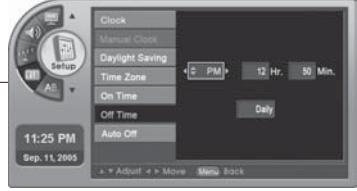
5 Press ▲/▼/◄/► to set the **AM/PM**, **hours**, **minutes** and **turn-off period**.

6 Press **EXIT** to exit the menu.

Useful Tips
- The turn off period can be set to [Cancel], [Everyday] or [Once].
- Cancel: The TV turn-off time is deactivated.
- Once: The TV will turn off Once at the set time.
- Everyday: The TV will turn off everyday at the set time.

TV Deactivation Time Settings

If there is no signal on the TV for 15 minutes or more, or if no button is pressed for more than 3 hours, this function turns off the TV automatically.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **Time**, then press **OK**.
The [Time] Menu will appear.

4 Press ▲/▼ to move to **Auto Off**, then press **OK**.
The [Auto Off] Menu will appear.
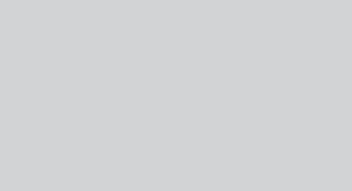
5 Press ▲/▼ to select **On**.

6 Press **EXIT** to exit the menu.

Useful Tips
- If [automatic turn-off] is active, then the TV will turn off when there is no signal on the TV or there is no external input signal for 15 minutes or more.
- If [automatic turn-off] is active and the TV is turned on by the [turn-on] option and no button is pressed for 3 hours, the TV will automatically turn off.

Chapter 6 V-Chip

Entering a PIN

This option sets up or changes the password for blocking specific channels.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **V-Chip**, then press **OK**.
■ The [Password Dialog Box] Menu will appear.
■ When first accessing the V-Chip menu, no password is set up. When no password is set up, channels cannot be blocked. You need to set the password of the [V-chip] then go to [Changing PIN] and set it to [ON]. If a User loses the password, the Master Password needs to be used.
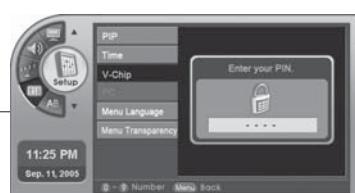
4 Enter the 4-digit password (0~9) using the remote control.
The [V-Chip] Menu will appear.

5 Press ▲/▼ to move to **Changing PIN**, then press **OK**.
The [Changing PIN] Menu will appear.

6 Use the keypad to set up the new password.

7 Please confirm your password by entering your 4-digit password again using the remote control. The password is set or changed.

8 Press ▲/▼ to move to **On/Off**, then press **OK**. The [On/Off] Menu will appear.

Changing PIN
On/Off
TVPG Rating
MPAA Rating   Off
Can. English Rating   ✓ On
Can. French Rating

Setup
All

11:25 PM
Sep. 11, 2005

▲ ▼ Select   Menu Back

9 Press ▲/▼ to move to **On**, then press **OK**. You will block certain channels, and you can also select [TVPG Rating], [MPAA Rating], [Can.English Rating], [Can.French Rating]. Pressing [Off] will unblock the channels.

10 Press **EXIT** to exit the menu.

TVPG Rating

You can block programs based on the TV program rating.

☞ **Before Starting**

Enter your password for the [V-Chip] then move to the [Changing PIN] menu, and select [On] from the [On/Off] Menu. Refer to P.76~77.

1 | MENU | Press **MENU**.
The Menu will appear.

2 | OK | Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 | OK | Press ▲/▼ to move to **V-Chip**, then press **OK**.
The [Password Dialog Box] Menu will appear.

4 | Enter your 4-digit password using the keypad (0~9).
The [V-Chip] Menu will appear.

5 | OK | Press ▲/▼ to move to **TVPG Rating**, then press **OK**.
The [TVPG Rating] Menu will appear.

6 | OK | Press ▲/▼/◄/► to move to a rating, then press **OK**.
The lock symbol will be marked, and the rating will be set. Pressing [OK] will display the Unlock symbol and cancel the setting.

7 | EXIT | Press **EXIT** to exit the menu.
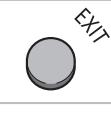
Useful Tips

Description of the TV (FCC) Rating Codes:
TV (FCC) Age Categories

■ **TV-MA**
Mature audiences only. This program may contain mature themes, profane language, graphic violence and explicit sexual content.

■ **TV-14**
Parents strongly cautioned. This program may contain sophisticated themes, sexual content, strong language and more intense violence.

■ **TV-PG**
Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialog and situations.

■ **TV-G**
General audience. This contains little or no violence, no strong language, and little or no sexual dialog or situations.

■ **TV-Y7**
Directed for older children. Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of seven.

■ **TV-Y**
All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages two – six.

TV (FCC) Content Sub-Categories:

V Violence.

S Sexual content.

L Offensive language.

D Dialog...sexual innuendo.

FV Fantasy or cartoon violence.

TV (FCC) Guidelines: Suppose, for example, the TV-PG rating and all of its V, S, L and D sub-categories are locked. In that case, all of the "more restrictive" ratings (TV-14 and TV-MA) and all of their V, S, L and D sub-categories are automatically locked out as well. The two groups (TV-Y/TV-Y7 and TV-G/TV-PG/TV-14/TV-MA) are controlled independently.

MPAA Ratings

Restricting movies by their rating.

☞ **Precautions**

Enter your password for the [V-Chip], move to the [Changing PIN] menu and select [On] from the [On/Off] Menu. Refer to P.76~77.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.
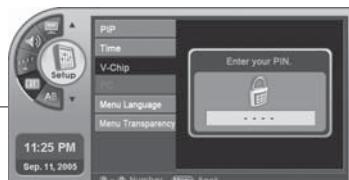
3 Press ▲/▼ to move to **V-Chip**, then press **OK**.
The [Password Dialog Box] Menu will appear.

4 Enter your 4-digit password (0~9) using the remote control.
The [V-Chip] Menu will appear.

5 Press ▲/▼ to move to **MPAA Rating**, then press **OK**.
The [MPAA Rating] Menu will appear.

6 Press ▲/▼/◀/▶ to move to a rating, then press **OK**.
The lock symbol will be marked, and the rating will be set. Pressing [OK] once more will display the Unlock symbol, and will cancel the rating.

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

Useful Tips

Description of the MPAA and TV (FCC) Rating Codes:
The MPAA Rating System (Movies)
G General Audience. No restrictions.
PG Children under 13 should be accompanied by an adult.
PG-13 Parental guidance suggested. Children under 13 should be accompanied by an adult.
R Restricted. Viewers should be 17 or older.
NC-17 Not classified. Viewers should be 17 or older.
X Adults only.
■ MPAA ratings: The selected rating will be locked. In addition, any ratings that are more restrictive will also be blocked.

Canadian English Ratings

☞ **Precautions**

Enter your password for the [V-Chip] then move to the [Changing PIN] menu, and select [On] from the [On/Off] Menu. Refer to P.76~77.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **V-Chip**, then press **OK**.
The [Password Dialog Box] Menu will appear.

4 Enter your 4-digit password (0~9) using the remote control.
The [V-Chip] Menu will appear.

5 Press ▲/▼ to move to **Can.English Rating**, then press **OK**.
The [Can.English Rating] Menu will appear.

6 Press ▲/▼/◀/▶ to move to a rating limit, then press **OK**.
The lock symbol will be marked, and the rating will be set. Pressing [OK] will display the Unlock symbols, and limit the view.

7 Press **EXIT** to exit the menu.
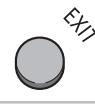
Useful Tips

Canadian English Ratings
E Expect No restriction.
C Children
C8+ Viewers should be 8 or older.
G General Audience.
PG Parental guidance suggested. Children under 14 should be accompanied by an adult.
14+ Restricted. Viewers should be 14 or older.
18+ Restricted. Viewers should be 18 or older.

Canadian French Ratings

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **V-Chip**, then press **OK**.
The [Password Dialog Box] Menu will appear.

4 Enter your 4-digit password (0~9) using the remote control.
The [V-Chip] Menu will appear.

5 Press ▲/▼ to move to **Can.French Rating**, then press **OK**.
The [Can.French Rating] Menu will appear.

6 Press ▲/▼/◄/► to select a rating, then press **OK**.
The lock symbol will be appear, and the rating will be set. Pressing [OK] again will display the Unlock symbol and cancel the rating.

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

Useful Tips **Canadian French Rating**
E Expect No restriction.
G For all
8+ Restricted. Viewers should be 8 or older.
13+ Restricted. Viewers should be 13 or older.
16+ Restricted. Viewers should be 16 or older.
18+ Restricted. Viewers should be 18 or older.
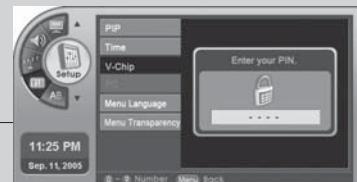
Chapter 7 Captions

Captions Settings

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Caption**, then press **OK**.
The [Caption] menu will appear.

3 Press ▲/▼ to move to **On/Off**, then **OK**.
The [On/Off] Menu will appear.

4 Press ▲/▼ to move to **On**, then press **OK**.
■ Captions will be activated.
■ Selecting [Off] will cancel the captions.

5 Press **EXIT** to exit the menu.

Useful Tips ■ When captions are [Off], in case you can't set up [Analog Mode], [Digital Mode], [Digital Font Option] to set up the Caption, setting as [On] may be done.

Analog Mode

The Analog Caption function operates in either analog RF channel mode or external input mode
(Depending on the broadcasting signal, the Analog Caption function may operate for digital channels.).
☞ **Precautions**
Set your Caption from [On/Off] menu as [On]. Refer page 84.

1 Press **MENU**.
The Menu will appear.

2 Press ▲/▼ to move to **Caption**, then press **OK**.
The [Caption] menu will appear.

3 Press ▲/▼ to move to **Analog Mode**, then press **OK**.
The [Analog Mode] Menu will appear.

4 Press ▲/▼ to move to **CC1~TEXT4**, then press **OK**.
■ Analog Caption may be selected.
■ Selecting [Off] will cancel the Captions.

5 Press **EXIT** to exit the menu.

| Useful Tips | ■ If a caption source is not provided by the broadcasting station or by the videotape, subtitles will not be displayed. |

Digital Mode

The Digital Caption function operates for digital channels.

☞ **Precautions**

Set Caption to [On] in the [On/Off] menu. Refer page 84.

1 MENU

Press **MENU**.
The Menu will appear.

2 OK

Press ▲/▼ to move to **Caption**, then press **OK**.
The [Caption] menu will appear.

On/Off	On	▶
Analog Mode	CC1	
Digital Mode	Service1	
Digital Font Option		

11:25 PM
Sep. 11, 2005

▲ ▼ Move OK Select Menu Back

3 OK

Press ▲/▼ to move to **Digital Mode**, then press **OK**.
The [Digital Mode] Menu will appear.

On/Off	
Analog Mode	Service1
Digital Mode	Service2
Digital Font Option	✓ Service3
	Service4
	Service5
	Service6

11:25 PM
Sep. 11, 2005

▲ ▼ Select Menu Back

4 OK

Press ▲/▼ to move to **Service1~Service6**, then press **OK**.
■ Digital Caption may be set.
■ Selecting [Off] will cancel Digital Captions.

5 EXIT

Press **EXIT** to exit the menu.

Useful Tips
■ If the broadcasting station or videotape does not provide subtitles, there are no viewing captions.
■ Alternate method to the above method: Simply press the [CAPTION] button on the remote control.
■ The availability of captions depends on the particular program being broadcast.

Digital Font Options

☞ **Precautions**
Set the captions to [On]. Refer page 84.

1 MENU Press **MENU**.
The Menu will appear.

2 OK Press ▲/▼ to move to **Caption**, then press **OK**.
The [Caption] menu will appear.

On/Off	On
Analog Mode	CC1
Digital Mode	Service1
Digital Font Option	

11:25 PM
Sep. 11, 2005

3 OK Press ▲/▼ to move to **Digital Font Option**, then press **OK**.
The [Digital Font Option] menu will appear.

Font Size	Standard
Font Style	Style0
Foreground Color	White
Background Color	Default
Foreground Opacity	Solid
Background Opacity	Translucent
Edge Style	Default

11:25 PM
Sep. 11, 2005

4 OK Press ▲/▼ to select **Size~Edge Style**, select the font type mode, then press **OK**.
■ Size: Adjust the digital caption font size to default, small, standard or large.
■ Style: Either default or style0 through style7 can be selected.
■ Background/Foreground Color: Either default or from white to cyan can be selected.
■ Background/Foreground Opacity: Either default or Solid to Flashing can be selected.
■ Edge Style: Either default or none to Right Drop Shadow.

5 EXIT Press **EXIT** to exit the menu.
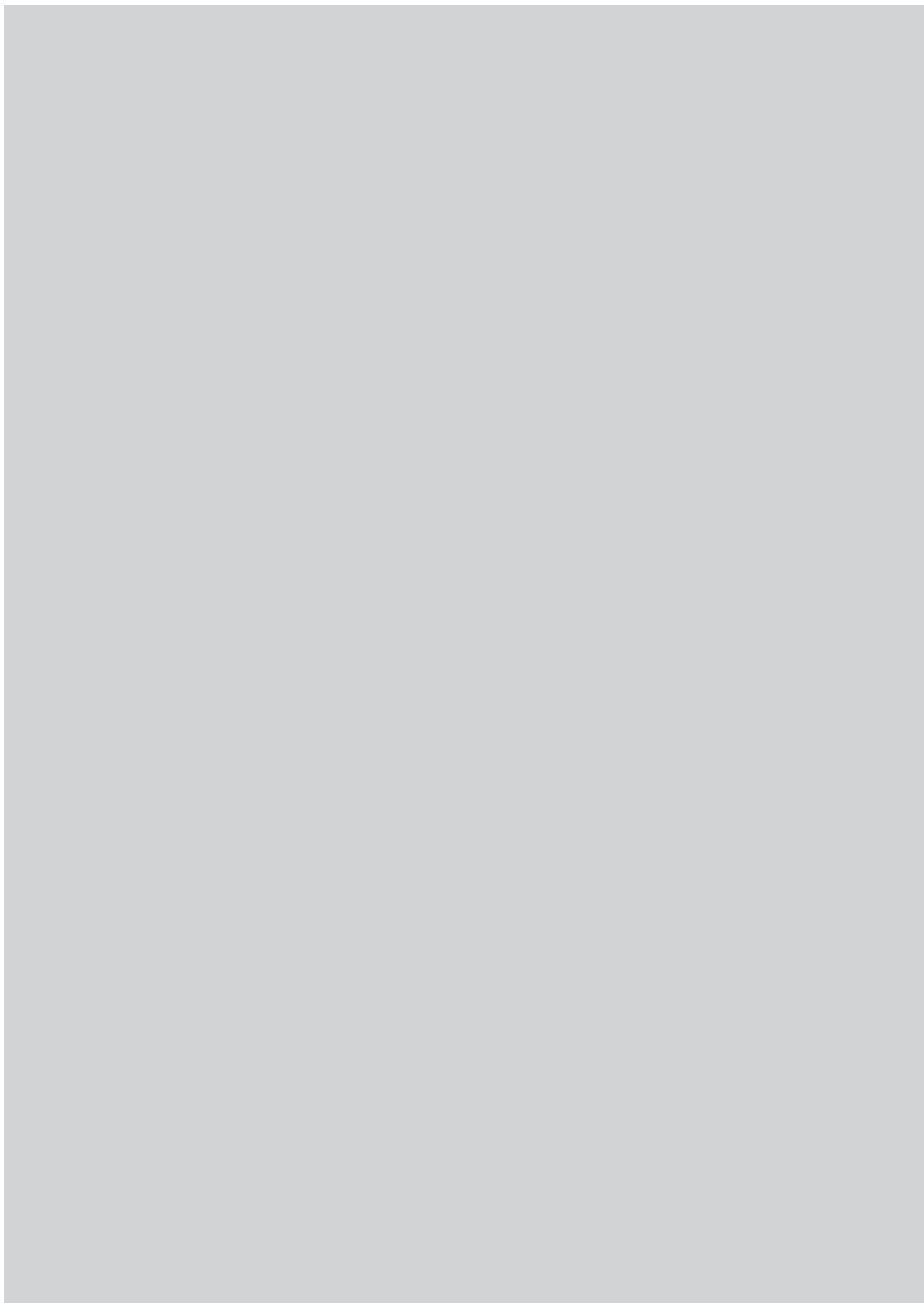
Chapter 8 Connecting a PC

Checking Items before Connecting to a PC

Check the list below before connecting a PC to the TV.

Precautions

1 Set your resolution and frequency to a resolution supported by the TV.

2 Refer to the instructions when connecting a PC (graphics and sound cards).

3 Do not connect the power unless all connections are connected.
Severe damage can be caused if the power is connected while the connections are still being connected.

4 Check the terminal of the PC Graphics Card.

Standard Display Settings

If the signal from the computer is the same as one of the following standards, then your monitor can be set up automatically. But if it is different, only the power light will be on or there is no screen at all. So please refer to your instruction manual and adjust the frequency accordingly.

| Resolution (dot*line)	Vertical Frequency [Hz]	Horizontal Frequency [kHz]	Clock Frequency [MHz]
640 X 350	85	37.9	31.500
720 X 400	70	37.9	35.500
640 X 480	60	31.5	25.175
640 X 480	75	37.5	31.500
800 X 600	60	37.9	40.000
800 X 600	75	46.9	49.500
1024 X 768	60	48.4	65.000
1024 X 768	75	60.0	78.750
1024 X 768	85	68.7	94.500
1024 X 768	60	47.7	84.250

References ■ Some graphics cards may not operate properly. Contact the graphics card manufacturer.

PC Settings

This TV sets the resolution and frequency in the PC display menus supported by Microsoft Windows XP Home Edition.

1 Right-Click the mouse on the desktop screen and select **Properties (P)**.
- ■ The Display Properties window will appear.

❶

2 Click the "**Settings**" tab, and select the correct TV-supported screen resolution.
- ■ You do not need to adjust the color quality.

3 Click the "**Advanced**" button.
- ■ A new window will appear.

❷

❸

4 Select the "**Monitor**" tab, and select the correct screen frequency.
- ■ You can select the vertical & horizontal frequency if you cannot use the screen frequency.

❹

5 Press "**OK**", close the window, and press "**OK**" in the Display Properties window.

6 Turn off the PC and connect to the TV.

Useful Tips
- ■ This may differ depending on the PC and Windows version.
- ■ A TV can support up to 32Bit color while being used as a TV monitor.
- ■ The display may differ depending on the manufacturer and the Windows version.
- ■ You have to select a display resolution which is support by the TV when connecting to a PC, (nclude DVI) otherwise the "Display Mode not supported" message will be displayed
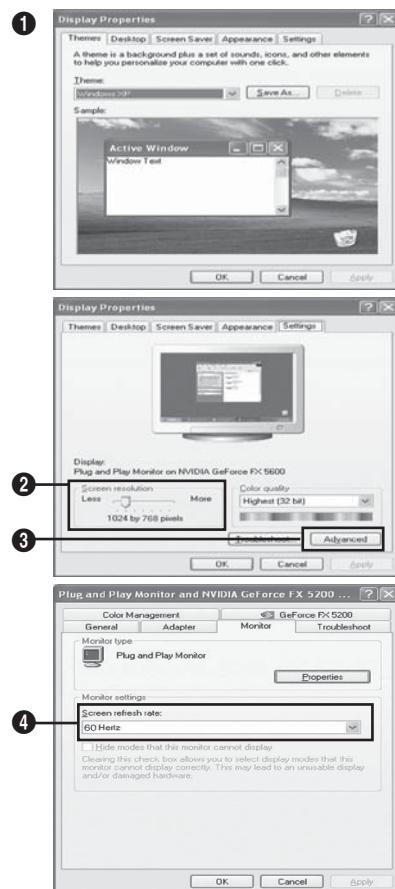
Adjusting the Position

If the screen is skewed towards a specific direction, try to adjust the position.

☞ **Before Starting**

Select the input selection as [PC].

1 Press **MENU**.
The Menu will appear.

**2** Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **PC**, press **OK**.
The [PC] Menu will appear.
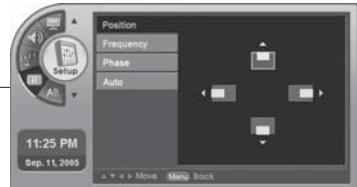
4 Press ▲/▼ to move to **Position**, then press **OK**.
The [Position] menu will appear

5 Press ▲/▼/◀/▶ to adjust the position of the screen.

6 Press **EXIT** to exit the menu.

Adjusting the Frequency

This function will remove or reduce flickering on the screen, unstable boundaries, unnecessary noise or blurring of the screen.

1 MENU Press **MENU**.
The Menu will appear.

2 OK Press ▲/▼to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

PiP	▶
Time	
V-Chip	
Menu Language	English
Menu Transparency	Opaque

11:25 PM
Sep. 11, 2005

▲ ▼ Move OK Select Menu Back

3 OK Press ▲/▼ to move to **PC**, press **OK**.
The [PC] Menu will appear.

Position	▶
Frequency	50
Phase	48
Auto	

11:25 PM
Sep. 11, 2005

▲ ▼ Move OK Select Menu Back
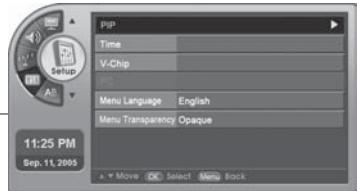
4 OK Press ▲/▼ to move to **Frequency**, then press **OK**.
The [Frequency] menu will appear

Frequency ▬▬▬▬▬▬▬▬▬ 60

5 OK Press ◄/► to change the frequency.

6 EXIT Press **EXIT** to exit the menu.

Useful Tips ■ This product primarily supports a TV, and secondarily supports monitor functions, so a PC monitor screen may be affected. If adjusting the frequency does not remove unnecessary noise, then try maximum phase adjustment.

Adjusting the Phase

If adjusting the frequency does not remove unnecessary noise, adjust the phase.

1 MENU

Press **MENU**.
The Menu will appear.

2 OK

Press ▲/▼to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 OK

Press ▲/▼ to move to **PC**, press **OK**.
The [PC] Menu will appear.

4 OK
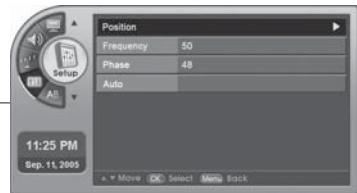
Press ▲/▼ to move to **Phase**, then press **OK**.
The [Phase] menu will appear

5 OK

Press ◀/▶ to adjust the phase.

6 EXIT

Press **EXIT** to exit the menu.

Useful Tips ■ If the phase is modified incorrectly, the
screen may become blurred.

Automatic Screen Settings

The PC signal sent out to the TV is automatically adjusted by the automatic screen adjustment option. The Position, Frequency and Phase values are automatically adjusted

1 Press **MENU**.
The Menu will appear.
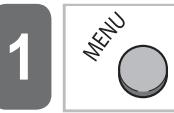
2 Press ▲/▼ to move to **Setup**, then press **OK**.
The [Setup] Menu will appear.

3 Press ▲/▼ to move to **PC**, press **OK**.
The [PC] Menu will appear.

4 Press ▲/▼ to move to **Auto**, then press **OK**.
The [Auto] menu will appear

5 Press **OK** to launch the option.

6 Press **EXIT** to exit the menu.
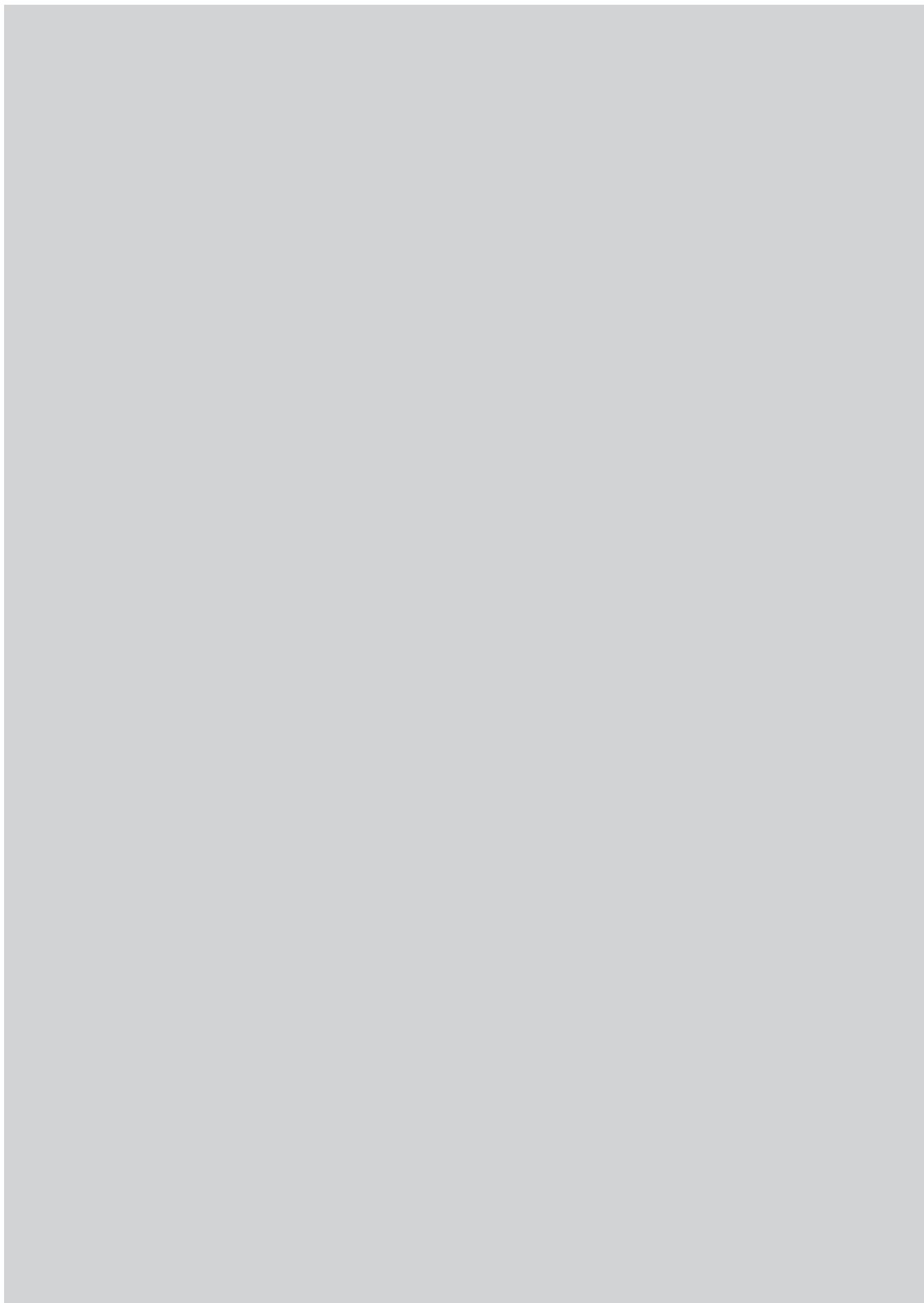
Chapter 9 Appendix - Troubleshooting

Identifying Problems

If there are any problems using the product, please first consult the list below. If the list below does not solve the problem, call our Customer Service Center immediately.

■ Setup and Connection

SYMPTOMS	SOLUTIONS
The TV won't turn on.	Check your power cable connection.
I can't view the Basic channels.	Check the connection of the antenna cable.
I want to view cable channels.	Register with your local cable company then connect their receiver to your TV.
I want to view satellite channels.	Setup your Satellite parabola antenna then connect your satellite receiver to the TV.
Digital broadcasting is not functioning.	■ Check your antenna cable connection. ■ Check if the digital channel selection is correctly connected to your antenna cable.

■ Menu and Remote Control

SYMPTOMS	SOLUTIONS
The Remote Control isn't functioning well.	■ Press [input selection] to select the device to play. ■ Change the batteries. ■ Check the polarity of the batteries. ■ Check the angle of the remote control from the product or if there are any obstacles between the remote control and the product. ■ Check if you have pressed the correct key for the correct option. ■ Try to a bright light position near TV's which transmit a strong light source on TV (remote receiver) window.
I cannot change channels with the remote control.	■ Press [input selection] and select (TV). ■ Try to use the remote control for the cable or satellite receiver to change the channel.
External input channels cannot be selected.	Check your external input connection cable.
A Menu cannot be selected.	Check if the menu is grayed out, and if it is, that menu cannot be selected.

■ Screen

| SYMPTOMS	SOLUTIONS
Poor picture	Is the power cord unplugged? Make sure the power cable is plugged in correctly, then press the power of the remote control.
Black picture	Check if external input mode is selected Press [external input selection] and select TV.
Lined and flickering picture.	■ Try to finely adjust the channel. ■ Are there any TV waves flowing or cordless radio transmitting stations? Avoid using cordless phones, hair dryers or electrical drills.
Disfunctioning channels.	■ Check if the channel has been selected correctly. ■ Try changing the position of the antenna.
Picture with white and black dots.	■ Check if your antenna is damaged or any connections are broken. ■ Replace your antenna.
Only certain channels are in black and white	■ Check if the program is being broadcast in "black and white". ■ Try to check the hue or contrast.
The Sub-Screen is black.	■ Check the power of the external device connected to the TV. ■ If the power cord is disconnected, the screen will be black.
Automatic turn-on is inactive.	When turning off your TV, you need to use the remote control or press the power button on the TV. (If you pull the plug on the TV, the settings will be deleted.)

Identifying Problems

■ Sound

SYMPTOMS	SOLUTIONS
Poor quality sound	■ Check if the program is in stereo. ■ Stereo may not work well in areas with bad reception. Try using Mono for these areas.
Sound is malfunctioning while using a cable.	■ Check your sound connecting cable. ■ Check if other channels also have no sound
Sound is malfunctioning while using a cable.	■ I can see images, but there is no sound. ■ Press the volume buttons to increase the sound. ■ Try watching a video (if the video has sound, check your cable company). If there is no problem with the cable receiver, then call our customer service. ■ Check if the internal speakers are (OFF).
There is a malfunction after the volume is increased	■ Try to adjust the external devices connected to the TV (Digital channel receiver, DTV, DVD, Cable channel receiver, video) ■ If you can adjust your sound, try to balance the volume of the TV and the external device.

■ Channel

SYMPTOMS	SOLUTIONS
The channels are not functioning.	■ Connect the antenna connectors again. ■ Set to memorize channels in the automatic channel setting again. ■ Query the particular broadcasting station.
A limited number of channels are not functioning.	■ Change the location or direction of the antenna. ■ Try to select a few channels using numbers and memorize them using the add/delete button. ■ Query the broadcasting station.
Only UHF (14~69) Channels are unavailable.	■ Check if the antenna is able to receive UHF.

■ **Monitord**

SYMPTOMS	SOLUTIONS
The PC Screen continually appears and disappears.	Check the connection between the TV and the computer and see if the connector is locked.
A "There is no signal" message appears.	■ This happens if the signal from the video card is too much for the maximum resolution or frequency of the TV. Try to set the maximum resolution or frequency for the TV. ■ See if power save mode of the PC functions properly. (This is deactivates when any key is pressed or the mouse is moved)
The screen looks like there is water flowing on it.	Check the connector connected to the TV.
The screen is unclear and blurry.	■ Change the frequency and phase adjustment. ■ Change the Resolution and frequency to the standard limit. (1024x768 @ 60Hz)
Unstable and flickering screen.	The resolution and frequency of the PC's Graphics Card should be set within the TV's range. Check the TV menu's current mode and standard mode and set it up again.
Some modes in standard mode are not working.	■ Check the compatibility of the video card. ■ If it is not working for compatible hardware, try to upgrade the driver of the graphics card.
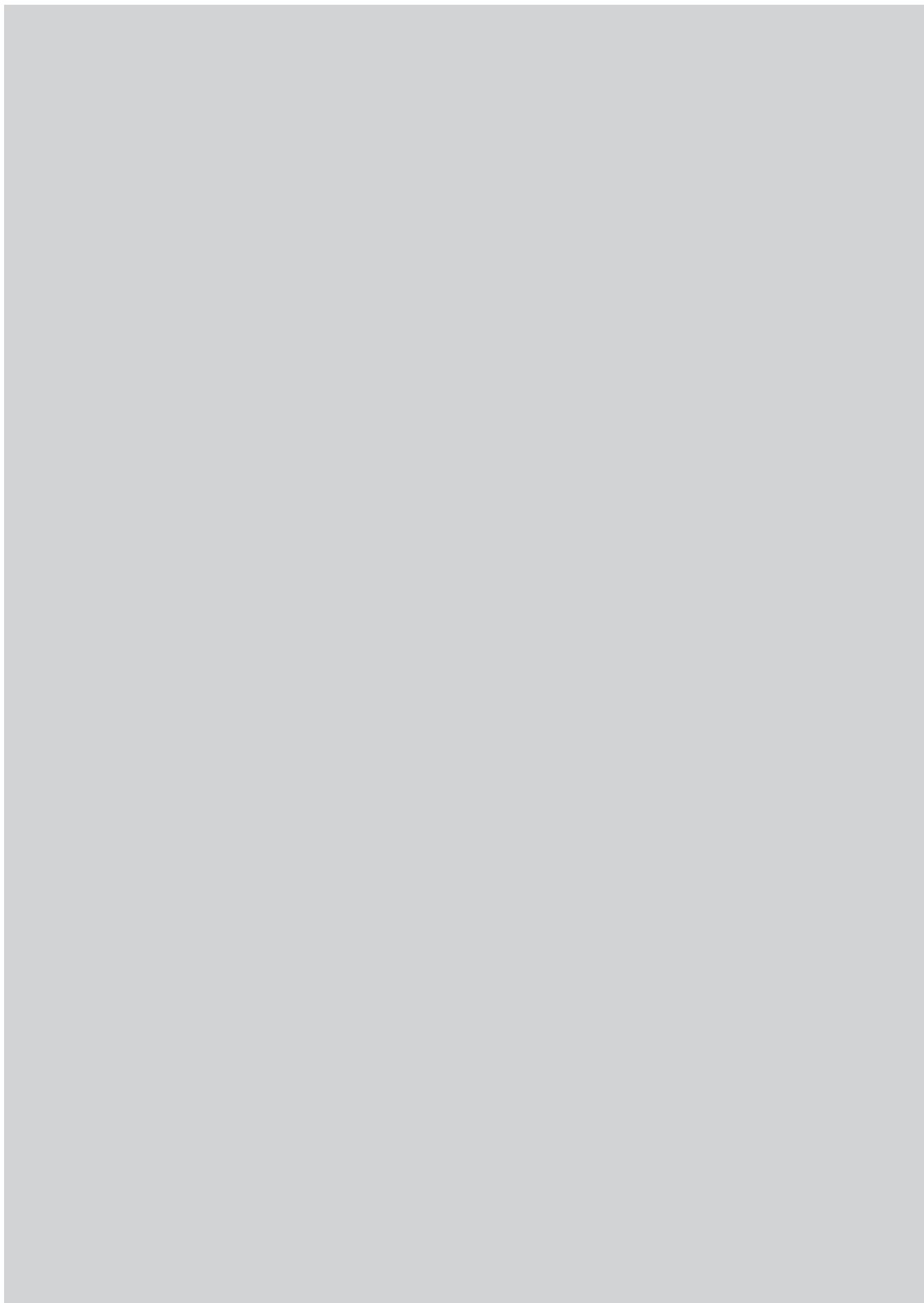
Chapter 10 Etcetera

Specifications

The External Design and the Product Standards may be changed without notice to ensure optimal product quality.
This product is certified level B and can be used for residential and commercial purposes.
Level B certifies that the product can be used for all areas.
Level A is only for Industrial or commercial purposes; Level B has less electromagnetic waves than Level A.

Model Name			3SD-32ALA/3SD-42ALA	
LCD Panel	Size		32/42	
	Display Size		1366(H) X 768(V)	
	Color		16,7 million	
	Viewing Angle		R/L(176), U/D(176)	
RF	Air		2ch ~ 69ch	
	Cable		1ch ~ 139ch	
TV	Video System		NTSC-M (Analog), ATSC (Digital)	
	Sound System		MTS	
VIDEO	Color System		NTSC-M	
	Video System		CVBS, S-VHS	
Component	Video Input		480i, 480p, 720p, 1080i	
	Audio Input		500mVrms	
PC	Frequency	Horizontal	30 ~ 60kHz	
		Vertical	60 ~ 75Hz	
	Display Colors		16,7 million	
	Resolution	Maximum	1280 X 1024, 60 Hz	
		Optimum	1366 X 768, 60 Hz	
Input Signal	Sync.		H/V Separate, TTL, P or N	
	Video Signal		VHF, UHF : 75ohm unbalanced	
Power Supply Input			AC 100V - 240V~, 50/60 Hz	
Power Consumption	Standard		Max 160W	Max 224W
	E.Saving		90W	140W
	Standby		<1W	< 1W
Dimension (W x D x H)	TV Body		977 X 98 X 490 mm	1221 X 170 X 657 mm
	With stand		977 X 228 X 544 mm	1221 X 304 X 731 mm
	Remocon		58 X 22 X 208 mm	58 X 22 X 208 mm
Weight	With stand		43.56 lbs (19.8 kg)	72.75 lbs (33 kg)
Control type			Remote control use : Infrared	
			Electronic functional use	