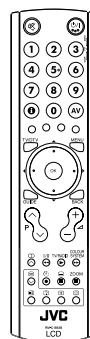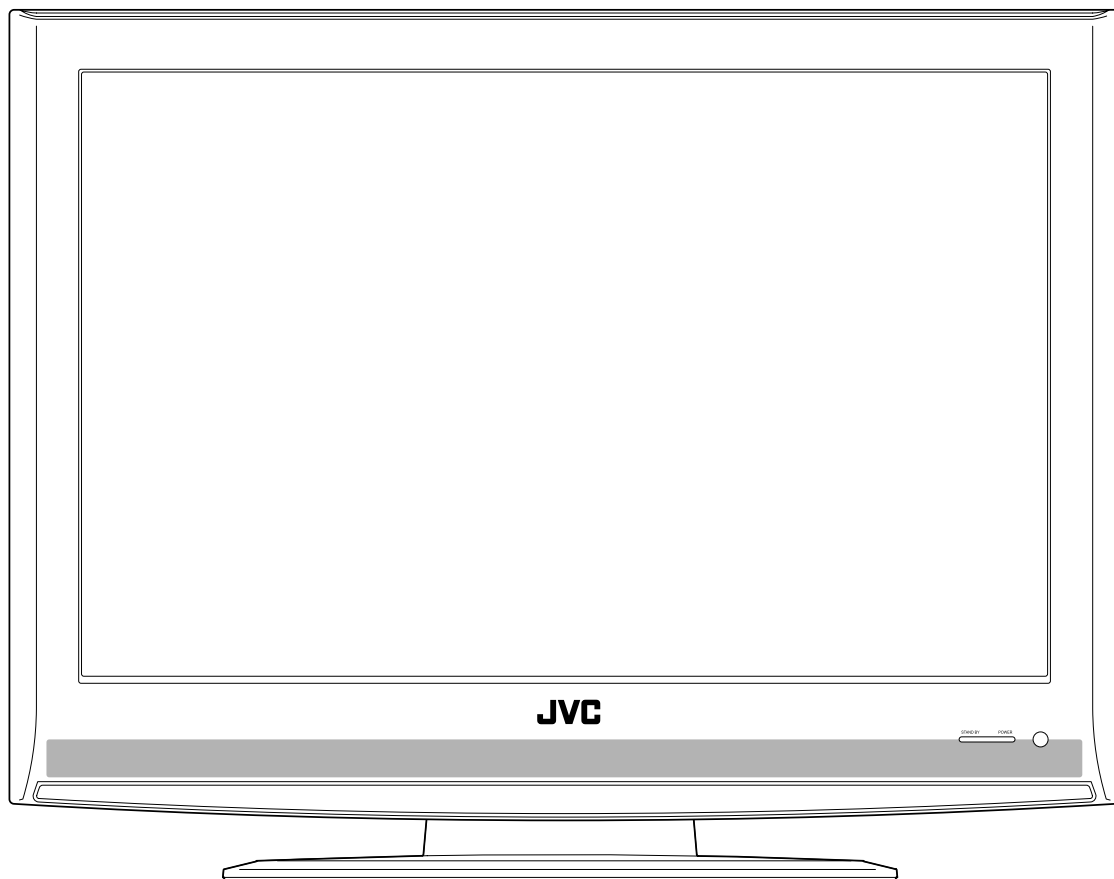# JVC

LT-19DA1BJ

WIDE LCD PANEL TV   INSTRUCTIONS

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

DVB ®
Digital Video Broadcasting

PRECAUTIONS

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

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.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the apparatus's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the apparatus.

POWER SUPPLY
The main power supply is engaged when the main plug is plugged in a 220-240 V∿, 50 Hz AC outlet. To operate the unit, press **[⏻/| (standby-on)]** to turn on the unit.

**WARNING: LIVE PARTS INSIDE.
DO NOT REMOVE ANY SCREWS.**

CAUTION
1) Do not attempt to open the cabinet. There are no user serviceable parts inside. Refer all servicing to qualified service personnel.
2) Slots and openings in the cabinet and the sides or bottom are provided for ventilation. To ensure reliable operation and to protect the unit from overheating, these openings must not be blocked or covered. Avoid installation in enclosed spaces such as bookcases unless proper ventilation is provided.
3) Keep the unit away from radiators and other heat sources.
4) Do not push objects of any kind into the unit through the cabinet slots or openings as they could touch electrically live parts or short circuit parts resulting in a fire or electric shock.
5) To prevent fire or shock hazard, do not expose this apparatus to dripping or splashing, no objects filled with liquids, such as vases, should be placed on the apparatus.
6) Use the unit on a horizontal (flat) surface only.
7) Do not place any combustible objects on the device (candles, etc.).
8) The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.

The LCD panel is a very high technology product with 921,600 thin film transistors, giving you fine picture details. Occasionally, a few non-active pixels may appear on the TV screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

9) Disconnect the mains plug to switch off when the unit becomes faulty or not in use.
10) The mains plug shall remain readily operable.
11) Read the manual instructions to ensure correct and safe installation and interconnection of the unit in multimedia systems.
12) Keep a distance of 20 cm around the ventilation openings of the apparatus.

Connection to Power

Before Switching on make sure that the voltage of your electricity supply is the same as that indicated on the rating plate.

Mains Cord
This appliance may be fitted with a non-rewireable plug. If it is necessary to change the fuse in a nonrewireable plug the fuse cover must be refitted. If the fuse cover is lost or damaged, the plug must not be used until a replacement available from the appliance manufacturer is obtained. It is important that the colour of the replacement fuse cover corresponds with the rating marking on the base of the plug. If the plug has to be changed because it is not suitable for your socket, or becomes damaged, it should be cut off and an appropriate plug fitted following the wiring instructions below. The plug removed must be disposed of safely as insertion into a 13A socket is likely to cause an electrical hazard. For your own safety read the following instructions carefully before attempting to connect this unit to mains. The wires in this mains lead are coloured in accordance with the following code:
BLUE=NEUTRAL, BROWN=LIVE

Important
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows: The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. No connection is to be made to the earth terminal of the plug. If a 13 Amp (BS 1363) Plug is used, a 5 Amp Fuse must be fitted, or if any other type of Plug is used a 3 or 5 Amp Fuse must be fitted, either in the Plug or Adaptor, or on the Distribution Board. Mains Supply: 220 - 240 V∿ 50 Hz - AC only Do not make any connection to the larger pin marked with the letter "E" or by the symbol ⏚ or coloured green or green and yellow.

FUSE
BROWN (Live)
BLUE (Neutral)
CORD GRIP
OUTER SHEATH OF THE WIRE
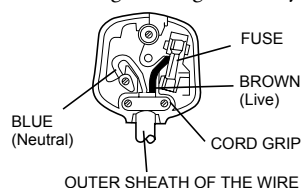
Do not place the unit on the furniture that is capable of being tilted by a child or an adult leaning, pulling, standing or climbing on it. A falling unit can cause serious injury or even death.

TABLE OF CONTENTS

Features

- **Integrated Digital Terrestrial Tuner (DVB)**
- **EPG (Electronic Programme Guide)**
- **Stereo Sound System**
- **On-Screen Display**
- **Sleep Timer**
- **Teletext**
- **TV Screen Mode Selection**
- **Auto Power Off Function -** If there is no signal input from the antenna terminal and no user operation for 15 minutes, the unit will be turned off automatically.
- **HDMI Input**
- **COMPONENT Input**
- **S-VIDEO Input**
- **PC Input**

Supplied Accessories

- Remote control
- Two R6 (AA) batteries
- INSTRUCTIONS

Trademark Information

- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- DVB is a registered trademark of the DVB Project

Symbols Used in this Manual

The followings are the description for the symbols used in this manual.

| DTV | Digital TV operation |
| ATV | Analogue TV operation |

Model/Serial Number

To aid reporting in case of loss or theft, please record the unit's model and serial numbers in the space provided. The numbers are located at the rear of the unit.

Model number: _____

Serial number: _____

A Note about Recycling

This unit's packaging materials are recyclable and can be reused. Please dispose of any materials in accordance with your local recycling regulations. This product consists of materials which can be recycled and reused if disassembled by a specialised company.
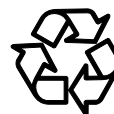
Information for Users on Disposal of Old Equipment and Batteries

[European Union]

These symbols indicate that the electrical and electronic equipment and the battery with this symbol should not be disposed of as general household waste at its end-of-life. Instead, the products should be handed over to the applicable collection points for the recycling of electrical and electronic equipment as well as batteries for proper treatment, recovery and recycling in accordance with your national legislation and the Directive 2002/96/EC and 2006/66/EC. By disposing of these products correctly, you will help to conserve natural resources and will help to prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of these products. For more information about collection points and recycling of these products, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.
Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.
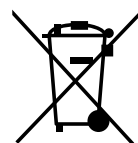
Products
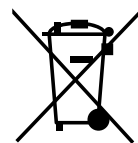
Battery

Notice:
The sign Pb below the symbol for batteries indicates that this battery contains lead.

[Business users]

If you wish to dispose of this product, please visit our web page www.jvc-europe.com to obtain information about the take-back of the product.

[Other Countries outside the European Union]

These symbols are only valid in the European Union.
If you wish to dispose of these items, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment and batteries.

Dear Customer,
This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.
European representative of Victor Company of Japan, Limited is:
JVC Technical Services Europe GmbH
Postfach 10 05 04   61145 Friedberg   Germany

THINGS TO DO FOR THE FIRST TIME

Attaching the stand

You need to attach the stand to the unit to display upright. Make sure the front and rear of the stand match the proper direction.

1) Place the unit face down onto the soft stuff such as a cloth on a table. Be careful not to damage the TV screen.

2) Insert the stand all the way to the unit slowly. Be careful not to put the AC cord between the stand and the unit.

3) Make sure the stand clicks.
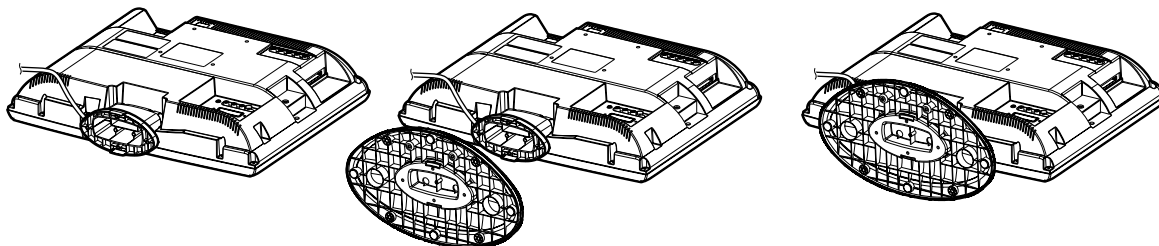
To remove the stand from the unit

Pull the stand toward the direction **2** pressing the hooks **1** at once and remove the stand from the unit slowly. Be careful not to drop the stand when you remove it.
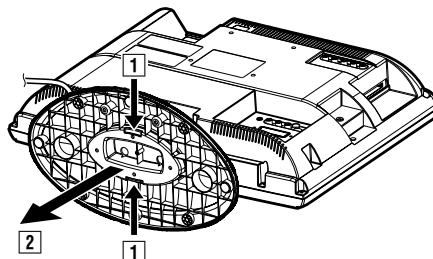
Note:
• Make sure to use the table which can support the weight and size of the unit.
• Make sure the table is in a stable location.

Handling the glossy finish of the unit

Be careful when handling the glossy finish of the unit. The glossy finish of the unit scratches easily.

• Protection films have been pasted onto the glossy finish of the unit to prevent scratches. Peel off the films after the unit has been placed properly.
• If the glossy finish gets dirty, clear the dust off the glossy finish first. Then wipe softly with soft cloth. If you do not clear the dust first, or you wipe the glossy finish too hard, the glossy finish may be scratched.

Glossy finish
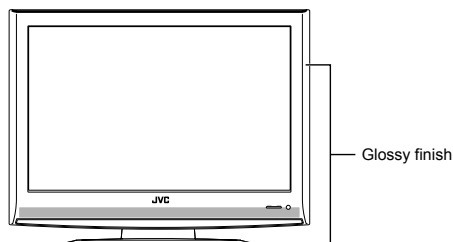
OPERATING CONTROLS AND FUNCTIONS

All operations described are based on the use of the remote control. Some operations can be carried out using the buttons on the control panel.

CONTROL PANEL

REMOTE CONTROL

1. ⏻/| **(standby-on)**
    Press to turn on or off (standby) the unit.
2. **INPUT SELECT/OK(control panel) / AV (remote control)**
    Press to switch TV or external input mode.
    INPUT SELECT/OK(control panel)
    Press to determine the setting on the menu.
3. **PROG. ∧ / ∨ (control panel)**
    Press to select the setting on the menu.
    Press to select the item you want to adjust in the picture control mode.
    Press to go to the next page or the previous page of teletext.
    Same function as **Cursor ▲ / ▼** (remote control) on the menu.
    PROG. ∧ / ∨ (control panel) / P∧/P∨ (prog.) (remote control)
    Press to select memorised channel or other modes.
4. **VOL. ∧ / ∨(control panel) / ⊿+/⊿− (vol.) (remote control)**
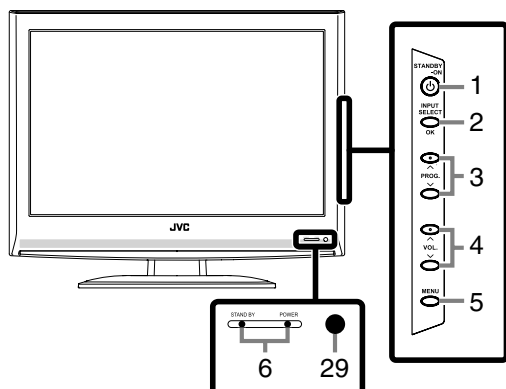   Press to control the volume level.
    VOL. ∧ (control panel)
    Same function as **Cursor ►** (remote control) on the menu.
    VOL. ∨ (control panel)
    Same function as **Cursor ◄** (remote control) on the menu.
5. **MENU**
    Press to display the menu.
    Press to call up the VCR menu. (VCR)
    Press to call up the menu on a DVD. (DVD)
6. **STAND BY/POWER indicator**
    Lights up in green when power is on.
    Lights up in red when power is in standby mode.
7. ⊠ **(mute)**
    Press to mute the sound.
    Press this button again or press **VOL. ∧ / ∨** on the control panel or ⊿+/⊿− **(vol.)** on the remote control to restore sound.
8. **TV / VCR / DVD switch**
    Switch to control basic operations of VCR / DVD using this remote control on our JVC brand.
9. **Number buttons**
    Press two digits to directly access the desired channel in analogue mode.
    Press three digits to directly access the desired channel in digital mode.
    Press to enter the password in the password input field.
10. **i (information)**
    Press to display the TV screen information.
11. **RED/GREEN/YELLOW/BLUE**
    Press to directly select the page numbers of teletext or digital teletext.
12. **TV/DTV**
    Press to select digital or analogue mode.
13. **Cursor ▲ / ▼ / ◄ / ► buttons**
    Press to select the setting on the menu.
    Press to select item you want to adjust in the picture control mode.
    Press to go to the next page or the previous page of teletext.
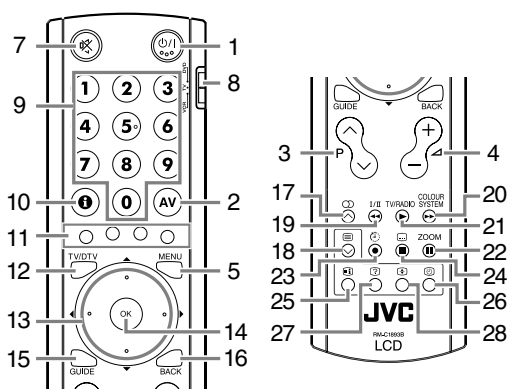
14. **OK**
    Press to determine the setting on the menu.
    Press to select or adjust from a particular menu.
    Press to display the channel list while watching a programme.
15. **GUIDE**
    Press to display EPG (Electronic Programme Guide) in digital mode.
16. **BACK**
    Press to return to the previous display.
17. ⊙ **(sound) / ∧ (VCR: programme +, DVD: skip forward)**
    Press to change the sound modes.
    Press to change TV channels. (VCR)
    Press to skip chapters or tracks. (DVD)
18. ▤ **(text) / ∨ (VCR: programme –, DVD: skip backward)**
    Press to display the teletext information.
    Press to change TV channels. (VCR)
    Press to skip chapters or tracks. (DVD)
19. **I/Ⅱ (audio language) / ◄◄ (VCR: rewind, DVD: reverse)**
    Press to change the audio language.
    Press to rewind the tape. (VCR)
    Press to search backward through the disc. (DVD)
20. **COLOUR SYSTEM / ►► (VCR, DVD: forward)**
    Press to select the colour input signal from external devices.
    Press to fast forward the tape. (VCR)
    Press to search forward through the disc. (DVD)
21. **TV/RADIO / ► (VCR, DVD: play)**
    Press to switch TV or RADIO mode.
    Press to begin playback.(VCR / DVD)
22. **ZOOM / ▐▐ (VCR, DVD: pause)**
    Press to switch the aspect ratio available for the TV screen.
    Press to pause playback. (VCR / DVD)
23. ⏲ **(sleep) / ● (VCR: recording)**
    Press to set the sleep timer.
    Press to start recording with pressing TV/RADIO / ► at the same time. (VCR)
    Press to pause recording with pressing ⏲ / ● at the same time. (VCR)
    Press to call up the title menu on a DVD. (DVD)
24. ▢ **(subtitle) / ■ (VCR, DVD: stop)**
    Press to change the available subtitle languages.
    Press to stop playback or recording. (VCR)
    Press to stop playback. (DVD)
25. ▤ **(index)**
    Press to go back to the start page of teletext.
26. ⊙ **(sub page)**
    Press to select subpages of teletext.
27. ? **(reveal)**
    Press to call up the hidden information of teletext.
28. ⊕ **(expand)**
    Press to enlarge fonts of teletext.
29. **Infrared sensor window**
    Receives the infrared rays transmitted from the remote control.

EN

Installing the Batteries

1) Open the battery compartment cover.
2) Insert "R6" penlight batteries into battery compartment in the direction as indicated by the polarity (+/–) markings. Batteries installed with incorrect polarity may damage the remote unit.
3) Close the cover.
4) Push the cover on its top side until it clicks in order to fit the cover completely to the compartment.

Note: Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.
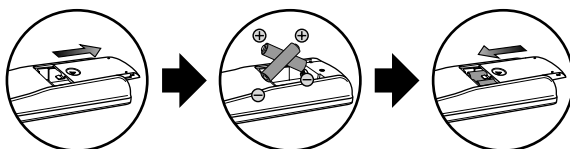
REAR PANEL
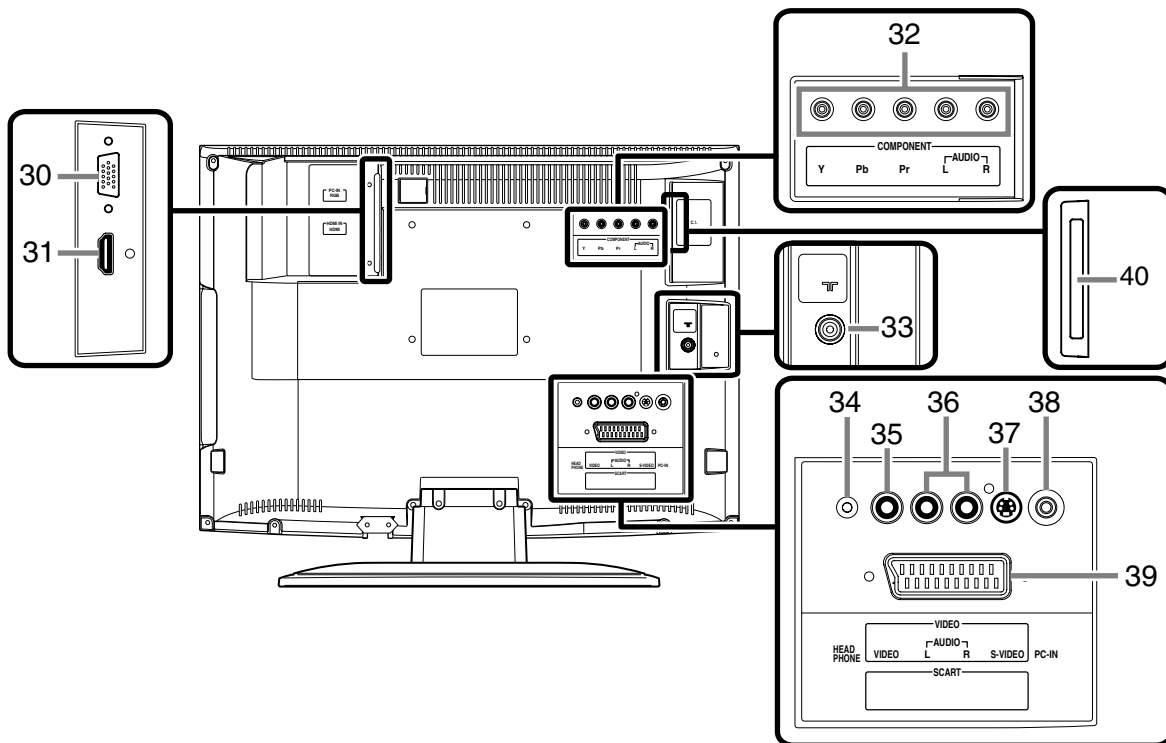
30. PC-IN (RGB) input jack
Connect a VGA cable (commercially available) to the monitor jack of a PC.

31. HDMI-IN input jack
Connect an HDMI cable (commercially available) to the HDMI output jack of an external device.

32. COMPONENT (Y/Pb/Pr) / AUDIO (L/R) input jack
Connect an RCA component video and an RCA audio cable (commercially available) to the component video and audio output jack of an external device.

33. ⊤ (Aerial) input jack
Connect an RF coaxial cable (commercially available) to an antenna or RF output jack of a cable system.

34. HEAD PHONE jack
Connect a headphone.

35. VIDEO input jack
Connect an RCA video cable (commercially available) to the video output jack of an external device.

36. AUDIO (L/R) input jack
Connect an RCA audio cable (commercially available) to the audio output jack of an external device.

Note: The AUDIO (L) jack is for monaural input. The sound is heard from both speakers. Use this jack for a monaural audio device.

37. S-VIDEO input jack
Connect an S-video cable (commercially available) to the S-video output jack of an external device.

38. PC-IN (Audio) input jack
Connect a mini-plug audio cable (commercially available) to the audio line out jack of a PC.

39. SCART jack
Connect a scart cable (commercially available) to the scart jack of an external device.

40. C.I. (COMMON INTERFACE) slot
Common Interface (CI) Module: Insert the CI module.

PREPARATION FOR USE

Antenna Connection

Rear of this unit

UHF   VHF

VHF/UHF MIXER

RF cable (not supplied)

To 〒 (Aerial) input jack
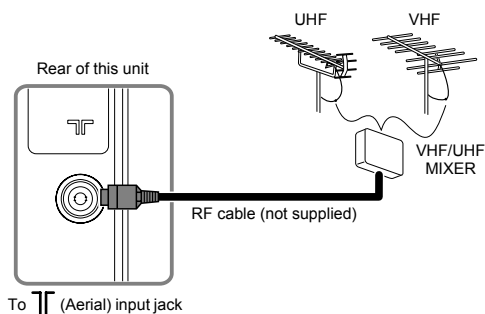
1) Connect an RF cable (commercially available) to 〒 (Aerial) input jack at the rear of this unit.

2) Plug this unit into an AC outlet.

3) The STAND BY/POWER indicator on the front panel lights red, then press **[⏻/| (standby-on)]** to turn on the unit.

External Connection

[HDMI CONNECTION]

HDMI connection offers the highest picture quality. HDMI (High Definition Multimedia Interface) transports high definition video and multi-channel digital audio through a single cable.

Connect the HDMI output jack of your video device and the HDMI-IN jack of the unit. Use an HDMI cable (commercially available).

Rear of this unit

HDMI cable (not supplied)

HDMI OUT
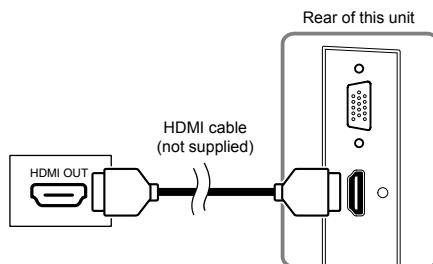
Dear Customer,

By connecting an HDMI cable to your JVC LCD TV, you have to use only a certified HDMI cable to guarantee a sufficient immunity against parasitic frequency radiation.

A certified HDMI cable can be identified by the HDMI logo on the cable or the cable package.

HDMI

Note:
- This unit accepts 480i / 480p / 576i / 576p / 720p / 1080i video signals and 32 kHz / 44.1 kHz / 48 kHz audio signals.
- This unit accepts only 2 channel audio signals (LPCM).
- You need to select "PCM" for the digital audio output of the device you connect. Make sure the device outputs the digital audio. Audio sometimes makes no sound if you select "Bitstream", etc.

[SCART CONNECTION]

Scart connection offers better picture quality.
Connect the scart jack of your video device and the SCART jack of this unit. Use a scart cable (commercially available).

Rear of this unit

SCART

VIDEO   S-VIDEO

scart cable (not supplied)
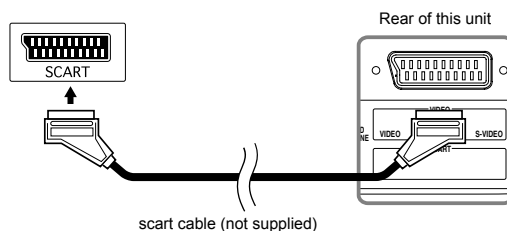
[COMPONENT CONNECTION]

RCA component video connection offers better picture quality.

1) Connect the component video output jack (Y, Pb, Pr) of your video device and the COMPONENT video(Y, Pb, Pr) input jack of this unit. Use an RCA component video cable (commercially available).

2) Connect the audio output jack of your device and the AUDIO (L/R) input jack of this unit. Use an RCA audio cable (commercially available).

RCA component video cable (not supplied)

COMPONENT VIDEO OUT
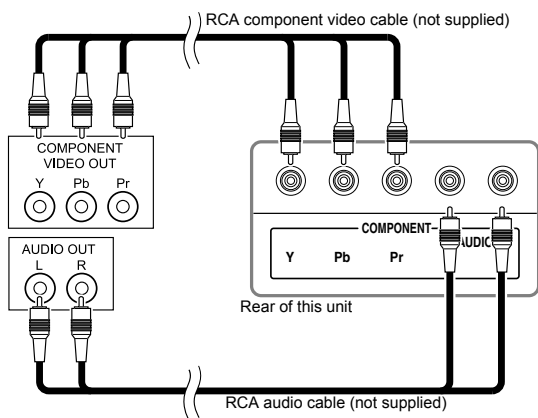
Y Pb Pr

AUDIO OUT

L R

COMPONENT

Y Pb Pr AUDIO

Rear of this unit

RCA audio cable (not supplied)

Note: This unit accepts 480i / 480p / 576i / 576p / 720p / 1080i video signals.

[S-VIDEO CONNECTION]

S-video connection offers good picture quality.

1) Connect the S-video output jack of your video device and the S-VIDEO input jack of this unit. Use an S-video cable (commercially available).

2) Connect the audio output jack of your device and the AUDIO (L/R) input jack of this unit. Use an RCA audio cable (commercially available).

RCA audio cable (not supplied)

Rear of this unit

AUDIO OUT   VIDEO OUT   S-VIDEO OUT

L R

VIDEO

AUDIO

HEAD PHONE   VIDEO   L   R   S-VIDEO   PC-IN

SCART

S-video cable (not supplied)
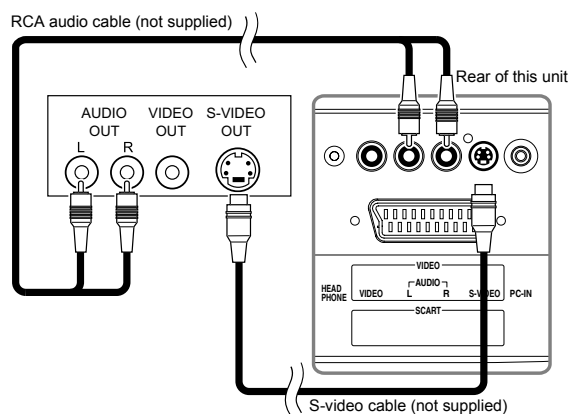
Note: If you connect to the S-VIDEO jack and the VIDEO jack at the same time, S-video connection will have priority.

[VIDEO CONNECTION]

RCA video connection offers standard picture quality.

1) Connect the video output jack of your video device and the VIDEO input jack of this unit. Use an RCA video cable (commercially available).

2) Connect the audio output jack of your video device and the AUDIO (L/R) input jack of this unit. Use an RCA audio cable (commercially available).

RCA audio cable (not supplied)

Rear of this unit

AUDIO OUT   VIDEO OUT

L R

VIDEO

AUDIO

NE   VIDEO   L   R   S-VIDEO

SCART

RCA video cable (not supplied)
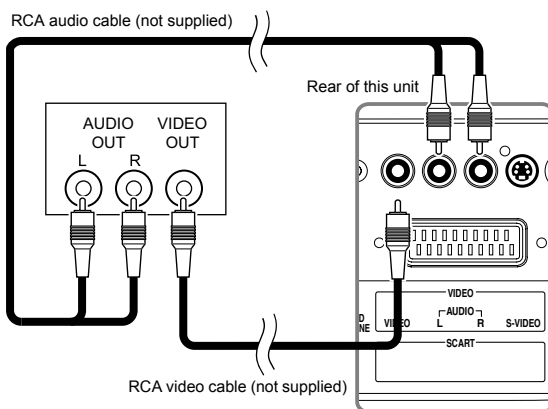
[PC CONNECTION]

If you connect this unit and your PC, you can use this unit as a computer monitor.

1) Connect the monitor jack of your PC and the PC-IN (RGB) jack of this unit. Use a VGA cable with ferrite core (commercially available).

2) Connect the audio line out jack of your PC and the PC-IN (Audio) jack of this unit. Use a mini-plug audio cable (commercially available).

Rear of this unit

VGA cable with ferrite core (not supplied)

To PC-IN jack

To monitor jack

mini-plug audio cable (not supplied)

To audio line out jack

S-VIDEO   PC-IN
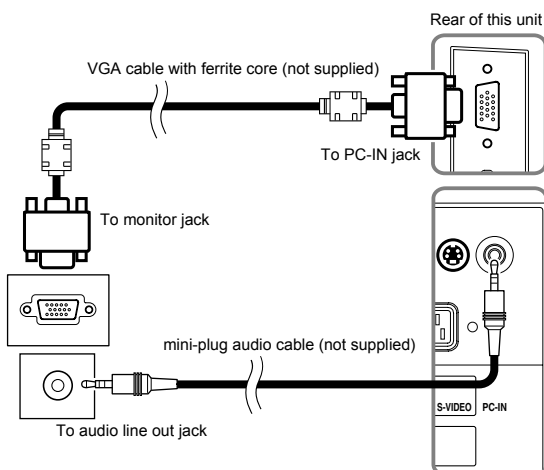
Precautions for the connection to other devices:

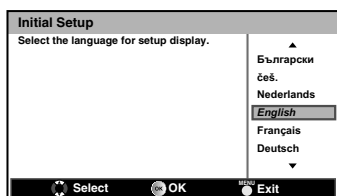Please use the VGA cable that has a ferrite core.

SETUP FOR USE

Initial Setting

`DTV`　`ATV`
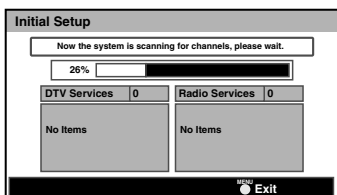
You need to set the followings to use the unit appropriately for the first time you turn on the unit.

1) Press **[⏻/| (standby-on)]** to turn on the unit.
• "Initial Setup" language menu will appear.

2) Press **[▲ / ▼]** repeatedly to select the menu language you want, then press **[OK]**.

Initial Setup	
Select the language for setup display.	▲
	Български
	češ.
	Nederlands
	English
	Français
	Deutsch
	▼
⟳ Select　◉ OK　● Exit	

• "Initial Setup" antenna confirmation menu will appear.

3) Press **[▲ / ▼]** to select "Yes", then press **[OK]**.

• Channel scanning will start automatically.

Initial Setup	
Now the system is scanning for channels, please wait.	
26%	
DTV Services	0	Radio Services	0
No Items	No Items
● Exit	

• When the scanning is completed, the lowest memorised digital channel will be displayed.

Note:
• If you select "No" in antenna confirmation menu, the operation will be cancelled.
• If you press **[MENU]** during auto scanning, the operation will be cancelled.
• If there is no signal input from the antenna terminal and no operation for several seconds, the next display will appear. Follow the instructions on the TV screen.

> No channel is registered. Press and hold "OK" key on the remote control for 3 seconds. Set proceeds to initial channel search.

Auto Scan

`DTV`

You can scan the digital channels receivable in your area automatically.

1) Press **[MENU]** to display the menu in digital mode.

2) Press **[▲ / ▼]** to select "CHANNEL", then press **[OK]**.

3) Press **[▲ / ▼]** to select "Auto Scan", then press **[OK]**.
• Scanning will start automatically.

	Auto Scan
⤶ EXIT	Now the system is scanning for channels, please wait.
🖼 PICTURE	32%
♪ SOUND	DTV Services │ 0　　Radio Services │ 0
▦ CHANNEL	No Items　　　　　No Items
🗇 DETAIL	
🗒 LANGUAGE	● Back
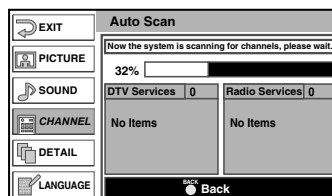
• When the scanning is completed, the lowest memorised digital channel will be displayed.
• If you press **[MENU]** during the scanning, this operation will be stopped and the lowest memorised digital channel will be displayed.

`ATV`

You can scan the analogue channels receivable in your area automatically.

1) Press **[MENU]** to display the menu in analogue mode.

2) Press **[▲ / ▼]** to select "CHANNEL", then press **[OK]**.

3) Press **[▲ / ▼]** to select "Auto Scan", then press **[OK]**.
• Scanning will start automatically.

	Auto Scan
⤶ EXIT	Now the system is scanning for channels, please wait.
🖼 PICTURE	
♪ SOUND	VHF-L
▦ CHANNEL	25%
🗇 DETAIL	Analog channels │ 0　ch
🗒 LANGUAGE	● Back
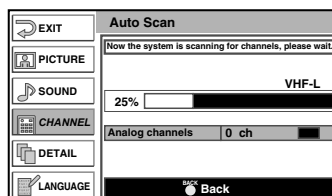
• When the scanning is completed, the lowest memorised analogue channel will be displayed.
• If you press **[MENU]** during the scanning, this operation will be stopped and the lowest memorised analogue channel will be displayed.
• Please note that after tuning, the analogue channels will be stored in the order that they are broadcast by your local transmitter. This may not be in the same order in which you would like them to be stored. If this is the case, you can change the order according to your preference. To do this, see "To change the channel order manually" on Page 16.

Manual Scan

DTV

You can adjust a digital channel individually.

1) Press **[MENU]** to display the menu in digital mode.

2) Press **[▲ / ▼]** to select "CHANNEL", then press **[OK]**.

3) Press **[▲ / ▼]** to select "Manual Scan", then press **[OK]**.

4) Press **[◄ / ►]** to select the channel number you want to scan.
   • The tuner will start searching up or down automatically. When a channel is found, the searching will stop.

5) Press **[MENU]** to exit.

ATV

You can adjust an analogue channel individually.

1) Press **[MENU]** to display the menu in analogue mode.

2) Press **[▲ / ▼]** to select "CHANNEL", then press **[OK]**.

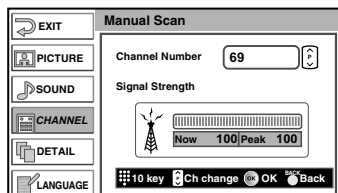**3)** Press **[▲ / ▼]** to select "Manual Scan", then press **[OK]**.

4) Press **[◄ / ►]** to select the channel number you want to scan.

5) Press **[▲ / ▼]** to select "Frequency".

6) Press **[the Number buttons]** to enter the frequency.
   • To select 24, enter **[0]** first, then press **[2]** and **[4]**.

7) Press **[◄ / ►]** to start searching.
   • The tuner will start searching up or down automatically. When a channel is found the searching will stop.
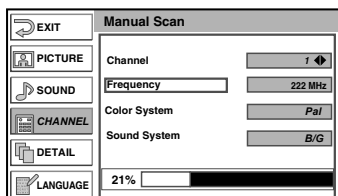
8) Press **[▲ / ▼]** to select "Color System", then press **[OK]**.

9) Press **[▲ / ▼]** to select the system ("Pal, SECAM") you want, then press **[OK]**.
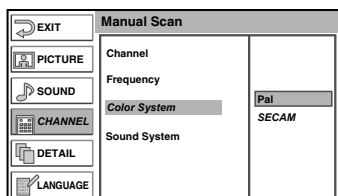
10) Press **[▲ / ▼]** to select "Sound System", then press **[OK]**.

11) Press **[▲ / ▼]** to select the system you want, then press **[OK]**.

e.g.) "Color System" is "Pal"
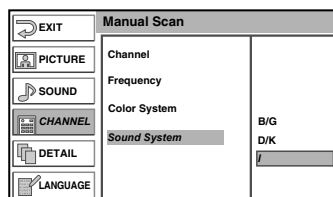
12) Press **[MENU]** to exit.

Language Selection

DTV   **ATV**

You can select the main language.

1) Press **[MENU]** to display the menu.

2) Press **[▲ / ▼]** to select "LANGUAGE", then press **[OK]**.

3) Press **[▲ / ▼]** to select your desired item, then press **[OK]**.

4) Press **[▲ / ▼]** repeatedly to select the language you want, then press **[OK]**.
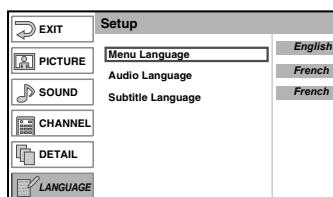
5) Press **[MENU]** to exit.

Note: • "Audio Language" and "Subtitle Language" are available only for digital mode.
   • While watching a programme, you can change the audio language easily using **[I/Ⅱ (audio language) / ◄◄]** when it is available.
   • While watching a programme, you can change the subtitle language easily using **[⌨ (subtitle) / ▮]** when it is available.

Teletext

You can retrieve the teletext information along with analogue TV channels.

1) Press **[▤ (text) / ∨]** to turn on the teletext decoder.
   • Teletext information will appear.
   • If you want to select other pages, press **[the Number buttons]** or **[▲ / ▼]**.

2) Press **[▤ (text) / ∨]** again to show the teletext in transparent mode.

Note: • To enlarge fonts, press **[⊕ (expand)]**.
   • To select teletext subpages, press **[⊚ (sub page)]**.
   • To directly select the page numbers shown at the bottom of the TV screen, use **[RED/GREEN/ YELLOW/BLUE]**.
   • To call up the hidden information, press **[⑦ (reveal)]**.
   • To go back to the start page, press **[▤ (index)]**.

3) Press **[▤ (text) / ∨]** to turn off the teletext decoder.

Digital Teletext

Some digital TV channels have digital teletext called MHEG (Multimedia and Hypermedia Expert Group). You can see the MHEG data service on the TV screen.

1) Press **[▤ (text) / ∨]** to turn on the digital teletext.

2) MHEG information will appear.

3) Follow the instructions on the TV screen.
   • You can turn off the digital teletext using **[▤ (text) / ∨]** again.

Note: Press **[RED/GREEN/YELLOW/BLUE]** following the instructions on the TV screen.

C.I. (Common Interface)

This unit is equipped with a C.I. (Common Interface) slot. You can enjoy additional services with this function, for example Pay TV. The access restrictions menu will appear on the TV screen when a CI module is installed.

1) Turn off the unit and unplug from an AC outlet.

2) Insert the CI module straight to the C.I. slot of this unit.

• Some CI modules may be a two-piece design consisting of a card reader with the viewing card. When using this kind of card, insert the card reader firmly into the C.I. slot on the unit first. Then, insert the viewing card into the reader.
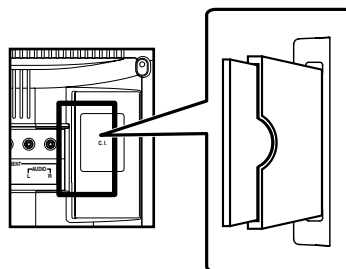
3) Plug this unit into an AC outlet and press **[⏻/| (standby-on)]** to turn on the unit.

4) Press **[MENU]** to display the menu.

5) Press **[▲ / ▼]** to select "DETAIL", then press **[OK]**.

6) Press **[▲ / ▼]** to select "CI Menu", then press **[OK]**.

7) Follow the instructions on the TV screen.

Note: • In case of failure, you need to call your CI service provider.
   • Menu operations may vary depending on the viewing card. Refer to the manual accompanying the viewing card.

Colour System

You can change the TV colour system in video or scart mode.

Press **[COLOUR SYSTEM / ►►]** to change the TV colour system.
• Each time you press **[COLOUR SYSTEM / ►►]**, the TV screen will change as follows.

AUTO, PAL, PAL60, SECAM, NTSC, NTSC4.43

Note: When you select "AUTO" by pressing **[COLOUR SYSTEM / ►►]**, this unit will distinguish the system automatically according to the input signal from the external devices.

OPERATIONS

Watching a TV Programme

| DTV | ATV |

To select a channel

Press **[TV/DTV]** to switch digital or analogue mode.

| DTV |

Press **[P ∧/P ∨ (prog.)]** repeatedly to select your desired channel.
or
Press **[the Number buttons]** to enter a channel number as three digits for quicker access.
e.g.) If you want to select the channel 24, press **[0]** first, then press **[2]** and **[4]** within 3 seconds.

| ATV |

Press **[P ∧/P ∨ (prog.)]** repeatedly to select your desired channel.
or
Press **[the Number buttons]** to enter a channel number as two digits for quicker access.
e.g.) If you want to select the channel 24, press **[2]** and **[4]** within 3 seconds.

To adjust the volume

Press **[∠+/∠− (vol.)]** to adjust the audio volume.
• You can see the volume bar while adjusting the volume.

Volume   20

Press **[⊠ (mute)]** to turn on or off the sound right away.

• You can recover the original volume by pressing **[⊠ (mute)]** again or **[∠+/∠− (vol.)]** .

⊠ Mute

Sleep Timer

| DTV | ATV |

You can set the unit to be turned off automatically after a set time period.

1) Press **[(sleep) / ●]**.
   • Sleep timer display will appear.

2) Press **[(sleep) / ●]** repeatedly to change the sleep time period.
   • Each time you press **[(sleep) / ●]**, the timer increases by 30 minutes up to 120 minutes.

⊘ Sleep   30min.

To cancel the sleep timer

Press **[(sleep) / ●]** repeatedly until "Sleep Off" will appear.

⊘ Sleep   Off

Note: If you disconnect the unit from the AC outlet or if a power failure occurs, the sleep timer will be cancelled.

Switching the Input Mode

| DTV | ATV |

You can switch the input mode to digital mode, analogue mode or external input mode.

1) Press **[AV]**.
   • "Select Input" menu will appear.

Select Input

1. DTV
2. ATV
3. Video
4. SCART
5. Component
6. HDMI
7. PC
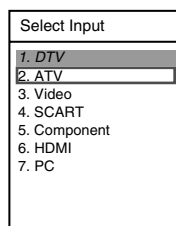
2) Press **[▲ / ▼]** to select the input mode you want, then press **[OK]**.

Note: • To watch the digital channel, select "DTV".
   • To watch the analogue channel, select "ATV".
   • To use the video or S-VIDEO input jack on the unit, select "Video".
   • To use the SCART jack on the unit, select "SCART".
   • To use the COMPONENT (Y/Pb/Pr) input jack on the unit, select "Component".
   • To use the HDMI-IN jack on the unit, select "HDMI".
   • To use the PC-IN (RGB) jack on the unit, select "PC".

Sound Select

DTV ATV

Press **[◯ (sound) / ∧]** repeatedly to cycle through the available sound mode.

DTV

```
STEREO  →  LEFT
  ↑          ↓
MONO   ←  RIGHT
```
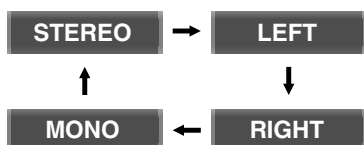
"STEREO"
Outputs stereo sound

"LEFT"
Outputs left sound

"RIGHT"
Outputs right sound

"MONO"
Outputs monaural sound

ATV

```
Main   →  Sub
  ↑          ↓
MONO   ← Main/Sub
```
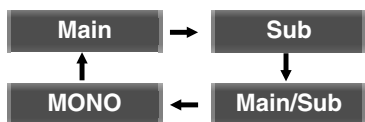
"Main"
Outputs main sound

"Sub"
Outputs second sound

"Main/Sub"
Outputs main and sub sound

"MONO"
Outputs monaural sound

Note: Available sound modes differ depending on a programme.

TV Screen Information

DTV ATV

You can see the broadcasting information.

Press **[i (information)]**.
• TV screen information menu will appear.

DTV
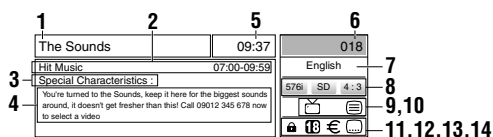
1 Channel name
2 Present programme name / time
3 Category name
4 Programme information
5 Time
6 Channel number
7 Audio language
8 Resolution / Format / TV aspect ratio
9 TV/Radio Digital Teletext
10 Teletext
11 Lock status
12 Parental rating
13 Pay TV
14 Subtitle

Note: When the programme information consists of more than 4 lines, press **[▲ / ▼]** to scroll.

ATV
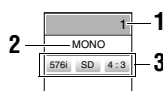
1 Channel number
2 Audio mode
3 Resolution / Format / TV aspect ratio

In external input mode, the following TV screen information will appear.

e.g.) "SCART"

Press **[i (information)]** again or **[BACK]** to exit.
• TV screen information menu will automatically disappear in a few seconds.

Changing the TV Screen Display Mode

`DTV`   `ATV`

You can select your favourite TV screen size in both 4:3 and 16:9 TV aspect ratios.

Press **[ZOOM / ❙❙]** repeatedly to switch the TV screen display mode.
• You may not switch the TV screen display mode depending on the programme.

For 4:3 video signal
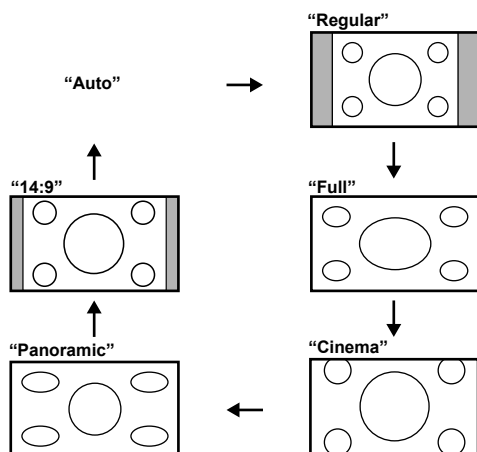
"Auto"
Displays a picture at its size depending on the signal automatically.

"Regular"
Displays a 4:3 picture at its original size. Sidebars appear on both edge of the TV screen.

"Full"
Displays a 4:3 picture at a 16:9 size; the picture is stretched horizontally to fill the TV screen.

"Cinema"
Displays a 4:3 picture at a 16:9 size; the picture is stretched horizontally and vertically to fill the TV screen. This crops out the top and bottom of the picture.

"Panoramic"
Displays a 4:3 picture at a 16:9 size; the centre of the picture is at its original size and the edges stretched horizontally to fill the TV screen.

"14:9"
Displays a 4:3 picture at a 14:9 size. Sidebars will be displayed on both edge of the TV screen.

For 16:9 video signal
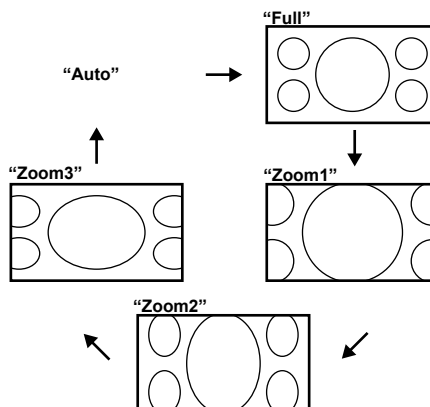
"Auto"
Displays a picture at its size depending on the signal automatically.

"Full"
Displays a 16:9 picture at its original size.

"Zoom1"
Displays a 16:9 picture at its maximum size without changing its horizontal and vertical ratio.

"Zoom2"
Displays a vertically stretched picture.

"Zoom3"
Displays a horizontally stretched picture.

For PC input signal
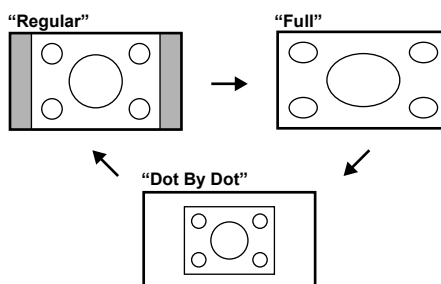
"Regular"
Displays a proportionally stretched picture. Sidebars appear on both edges of the TV screen.

"Full"
Displays a picture that is stretched out of proportion to fill the TV screen.

"Dot By Dot"
Displays a picture in its original size.

Note: You may not select "Regular" depending on the aspect ratio of the PC input signal.

Channel List

DTV **ATV**

You can easily find a channel you want.

1) Press **[OK]** while watching a programme.
 • Channel list will appear.

e.g.) Digital

```
        Channels List-DTV
 ┌─────────────────────────────┐
 │ 18. The Sounds            ▶ │
 │ 19. Cinema                ▶ │
 │ 20. Drama                 ▶ │
 │ 21. Today's News          ▶ │
 │ 22. The Musical           ▶ │
 │ 38. Motors                ▶ │
 └─────────────────────────────┘
 ●Select  OK OK  ▬DTV/Radio  BACK Back
```

e.g.) Analogue

```
        Channels List-ATV
 ┌─────────────────────────────┐
 │ P01.TV01                  ▶ │
 │                             │
 │                             │
 │                             │
 └─────────────────────────────┘
 ●Select  OK OK       BACK Back
```

2) Press **[▲ / ▼]** to select the channel you want to watch.

3) Press **[OK]** or **[BACK]** to exit.

Note: You can edit the channel list. Refer to "Channel Edit" on page 15 to page 17.

Channel Edit

DTV **ATV**

You can select a channel, change the channel order, delete the channel, etc.

1) Press **[MENU]** to display the menu.

2) Press **[▲ / ▼]** to select "CHANNEL", then press **[OK]**.

3) Press **[▲ / ▼]** to select "Channel List", then press **[OK]**.

e.g.) Digital

```
 ┌──────────┬──────────────────────────────┐
 │ ⤶ EXIT   │ Channel List                 │
 │          │      Channels List-DTV       │
 │ PICTURE  │  18. The Sounds            ▶ │
 │          │  19. Cinema                ▶ │
 │ SOUND    │  20. Drama                 ▶ │
 │          │  21. Today's News          ▶ │
 │ CHANNEL  │  22. The Musical           ▶ │
 │          │  38. Motors                ▶ │
 │ DETAIL   │                              │
 │          │ ●Select OK OK ▬DTV/Radio BACK Back │
 │ LANGUAGE │                              │
 └──────────┴──────────────────────────────┘
```

e.g.) Analogue
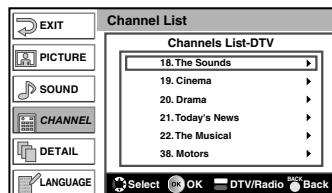
```
 ┌──────────┬──────────────────────────────┐
 │ ⤶ EXIT   │ Channel List                 │
 │          │      Channels List-ATV       │
 │ PICTURE  │  P01.TV01                  ▶ │
 │          │                              │
 │ SOUND    │                              │
 │          │                              │
 │ CHANNEL  │                              │
 │          │                              │
 │ DETAIL   │                              │
 │          │ ●Select OK OK BACK Back       │
 │ LANGUAGE │                              │
 └──────────┴──────────────────────────────┘
```
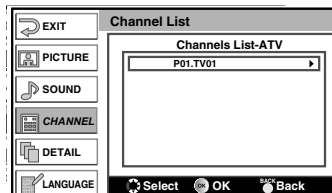
To allocate the decoder

ATV

Some TV stations transmit encoded TV signals which can only be viewed with a purchased or hired decoder. You can connect such a decoder to SCART jack of the unit. This function will automatically activate the connected decoder for the channel.
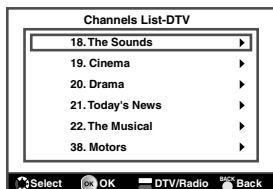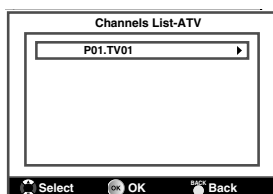
4) Press **[▲ / ▼]** to select the channel you want to allocate the decoder, then press **[▶]**.

5) Press **[▲ / ▼]** to select "Decoder".

6) Press **[OK]** to decoder on or off.
 • "⊜" will appear on the left of the channel.

```
 ┌──────────┬──────────────────────────────┐
 │ ⤶ EXIT   │ Channel List                 │
 │          │      Channels List-ATV       │
 │ PICTURE  │ ⊜ P01.TV01                 ▶ │
 │          │                              │
 │ SOUND    │                              │
 │          │                              │
 │ CHANNEL  │                              │
 │          │                              │
 │ DETAIL   │                              │
 │          │ ●Select OK OK BACK Back       │
 │ LANGUAGE │                              │
 └──────────┴──────────────────────────────┘
```
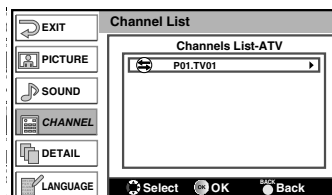
7) Press **[MENU]** to exit.

To skip the channel

DTV | **ATV**

4) Press **[▲ / ▼]** to select the channel you want to skip, then press **[▶]**.
5) Press **[▲ / ▼]** to select "Skip", then press **[OK]**.
• "🔒" will appear on the left of the channel.

e.g.) Digital

⮌ EXIT	**Channel List**
🖼 PICTURE	**Channels List-DTV**
	🔒 **18. The Sounds** ▶
🎵 SOUND	19. Cinema ▶
	20. Drama ▶
CHANNEL	21. Today's News ▶
	22. The Musical ▶
DETAIL	38. Motors ▶
LANGUAGE	✛Select OK OK ▬DTV/Radio ●Back

6) Press **[MENU]** to exit.
• When using **[P ∧/P ∨ (prog.)]**, the channel will be skipped.

If you want to cancel

4) Press **[▲ / ▼]** to select the channel set to be skipped, then press **[▶]**.
5) Press **[▲ / ▼]** to select "Skip", then press **[OK]**.
• "🔒" will disappear.

To lock the channel

DTV | **ATV**

4) Press **[▲ / ▼]** to select the channel you want to lock, then press **[▶]**.
5) Press **[▲ / ▼]** to select "Lock", then press **[OK]**.
• Password input field will appear.
6) Press **[the Number buttons]** to enter the 4-digit number for your password.
• "🔒" will appear on the left of the channel.

e.g.) Analogue

⮌ EXIT	**Channel List**
🖼 PICTURE	**Channels List-ATV**
	🔒 **P01.TV01** ▶
🎵 SOUND	P02.TV02 ▶
CHANNEL	
DETAIL	
LANGUAGE	✛Select OK OK ●Back

7) Press **[MENU]** to exit.
• When you select the locked channel, you need to enter the password to watch.

If you want to unlock

4) Press **[▲ / ▼]** to select the locked channel, then press **[▶]**.
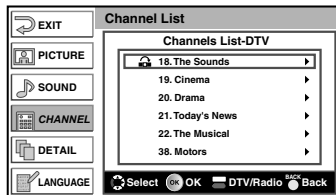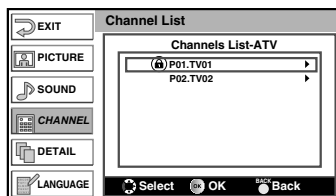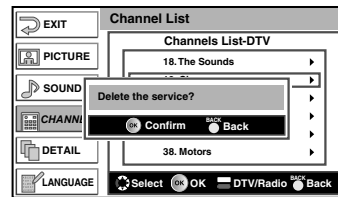**5)** Press **[▲ / ▼]** to select "Unlock", then press **[OK]**.
• Password input field will appear.
6) Press **[the Number buttons]** to enter the 4-digit number.
• "🔒" will disappear.
7) Press **[MENU]** to exit.

To delete the channel

DTV | **ATV**

4) Press **[▲ / ▼]** to select the channel you want to delete, then press **[▶]**.
5) Press **[▲ / ▼]** to select "Delete", then press **[OK]**.
• Confirmation window will appear.

e.g.) Digital

⮌ EXIT	**Channel List**
🖼 PICTURE	**Channels List-DTV**
	18. The Sounds ▶
🎵 SOUND	
	Delete the service?
CHANNEL	OK **Confirm** ● **Back**
DETAIL	38. Motors ▶
LANGUAGE	✛Select OK OK ▬DTV/Radio ●Back

6) Press **[OK]** to confirm.
• The selected channel will be deleted from the memorised channel.
7) Press **[MENU]** to exit.

To change the channel order manually

DTV | **ATV**

4) Press **[▲ / ▼]** to select the channel you want to move, then press **[▶]**.
5) Press **[▲ / ▼]** to select "Move Up" or "Move Down", then press **[OK]**.
• The channel will move one line up or down.

e.g.) Analogue

⮌ EXIT	**Channel List**	
🖼 PICTURE	**Channels List-ATV**	Decoder
	P01.TV01 ▶	Skip
🎵 SOUND	P02.TV02 ▶	Lock
		Delete
CHANNEL		Sort:Ch No
		Sort:Frequency
DETAIL		Move Up
LANGUAGE	✛Select OK OK ●Back	**Move Down**
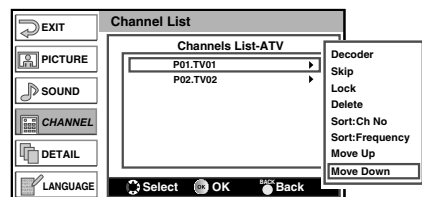
6) Press **[MENU]** to exit.

Note: To watch the channel, press **[▲ / ▼]** to select the channel you want to watch, then press **[OK]** at the step 3.

To change the channel order automatically

4) Press **[▶]**.

5) Press **[▲ / ▼]** to select "Sort:LCN" , "Sort:Name Down", or "Sort:Name Up", then press **[OK]**.

"Sort:LCN"
Arrange in channel number.

"Sort:Name Down"
Arrange in alphabetical order (A-Z).

"Sort:Name Up"
Arrange in alphabetical order (Z-A).
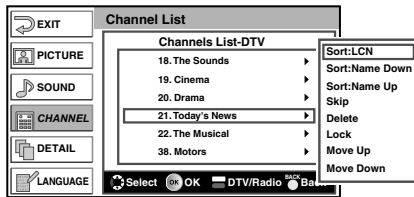
6) Press **[MENU]** to exit.

4) Press **[▶]**.

5) Press **[▲ / ▼]** to select "Sort:Ch No" or "Sort:Frequency", then press **[OK]**.

"Sort:Ch No"
Arrange in channel number.

"Sort:Frequency"
Arrange in channel frequency.
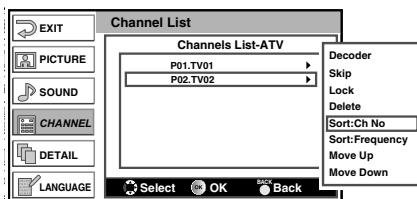
6) Press **[MENU]** to exit.

EPG (Electronic Programme Guide)

You can easily find a channel or see the detailed channel information. EPG (Electronic Programme Guide) gives you scheduled information of the TV programmes.

Press **[GUIDE]**.
• You can also display EPG as follows.

1) Press **[MENU]** to display the menu.

2) Press **[▲ / ▼]** to select "CHANNEL", then press **[OK]**.

3) Press **[▲ / ▼]** to select "EPG", then press **[OK]**.
   • EPG will appear.
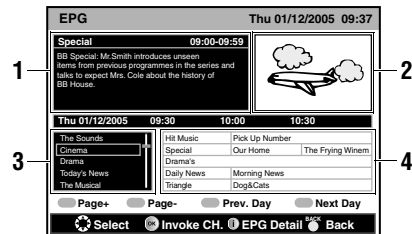
   1 Programme information
   2 Picture window
   3 Channel list
   4 Programme list

Press **[▲ / ▼ / ◀ / ▶]** to select a programme.
• Press **[RED]** or **[GREEN]** to scroll down or up the channel list.
• Press **[YELLOW]** or **[BLUE]** to move the programme list to the previous or next day.

Press **[OK]** to watch the selected programme if it is currently available.

Select the programme, then press **[i (information)]** to display more detailed programme information.
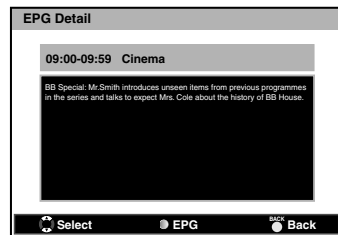
Press **[GUIDE]** or **[BACK]** to exit.

OTHER SETTINGS

`DTV`　　`ATV`

Picture Adjustment

You can adjust the picture settings according to your personal preference. These settings are automatically stored after exiting the picture menu.

1) Press **[MENU]** to display the menu.

2) Press **[▲ / ▼]** to select "PICTURE", then press **[OK]**.

3) Press **[▲ / ▼]** to select the item you want, then press **[OK]**.

4) Adjust the picture quality.

"Picture Mode"
Press **[▲ / ▼]** to select the setting ("Standard, Dynamic, Movie, News") you want, then press **[OK]**.

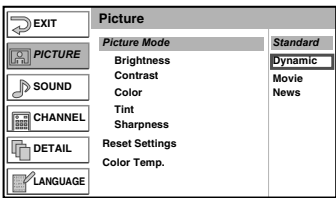|	Picture	
EXIT		
PICTURE	Picture Mode	Standard
SOUND	Brightness	Dynamic
	Contrast	Movie
CHANNEL	Color	News
DETAIL	Tint	
	Sharpness	
LANGUAGE	Reset Settings	
	Color Temp.	

"Brightness, Contrast, Color, Tint, Sharpness"
Press **[◄ / ►]** to adjust.

Setting	[◄]	[►]
"Brightness" Brightness 30 Adjust Move OK	decrease brightness	increase brightness
"Contrast" Contrast 30 Adjust Move OK	decrease contrast	increase contrast
"Color" Color 30 Adjust Move OK	decrease colour	increase colour
"Tint" Tint 0 Adjust Move OK	add red	add green
"Sharpness" Sharpness 30 Adjust Move OK	make soft	make clear

Note: • Press **[▲ / ▼]** to change the items.
• You can adjust "Tint" only when receiving NTSC signals from the connected external device.

"Reset Settings"
Press **[▲ / ▼]** to select "Reset", then press **[OK]** to restore the picture settings to the default.

	Reset Settings	
EXIT		Cancel
PICTURE	This function resets the setting for current Picture Mode to factory default.	Reset
SOUND		
CHANNEL		
DETAIL		
LANGUAGE		
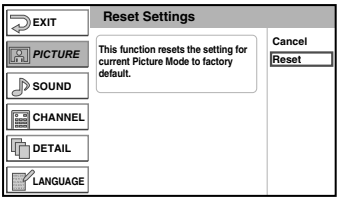
"Color Temp."
Press **[▲ / ▼]** to select the setting ("Cool, Neutral, Warm") you want, then press **[OK]**.

	Picture	
EXIT		
PICTURE	Picture Mode	
	Brightness	
SOUND	Contrast	
CHANNEL	Color	
	Tint	
DETAIL	Sharpness	
	Reset Settings	Cool
LANGUAGE	Color Temp.	Neutral
		Warm

5) Press **[MENU]** to exit.

Sound Adjustment

You can adjust the sound settings according to your personal preferences. These settings are automatically stored after exiting the sound menu.

1) Press **[MENU]** to display the menu.
2) Press **[▲ / ▼]** to select "SOUND", then press **[OK]**.
3) Press **[▲ / ▼]** to select the item you want, then press **[OK]**.
4) Adjust the sound quality.

"Treble, Bass"
Press **[◄ / ►]** to adjust.

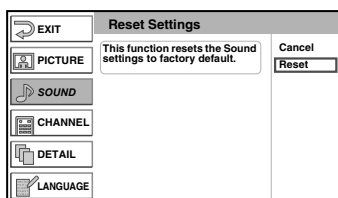| Setting	[◄]	[►]
"Treble" Treble 0 ▮▮▮▮▮▮▮▮▮ ◉ Adjust ◉ Move (ok) OK	decrease	increase
"Bass" Bass 0 ▮▮▮▮▮▮▮▮▮ ◉ Adjust ◉ Move (ok) OK		

Note: Press **[▲ / ▼]** to change the settings.

"Reset Settings"
Press **[▲ / ▼]** to select "Reset", then press **[OK]** to restore the sound settings to the default.


```
EXIT        Reset Settings
PICTURE     This function resets the Sound      Cancel
            settings to factory default.        Reset
SOUND
CHANNEL
DETAIL
LANGUAGE
```
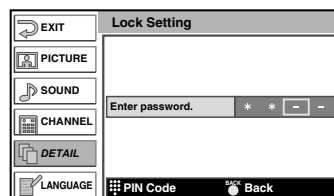
5) Press **[MENU]** to exit.

Lock Setting

You can lock the channel or set the parental rating to avoid watching an inappropriate programme.

1) Press **[MENU]** to display the menu.
2) Press **[▲ / ▼]** to select "DETAIL", then press **[OK]**.
3) Press **[▲ / ▼]** to select "Lock Setting", then press **[OK]**.
4) Press **[the Number buttons]** to enter the 4-digit number.

```
EXIT        Lock Setting
PICTURE
SOUND
CHANNEL     Enter password.        *  *  —  —
DETAIL
LANGUAGE    ⊞ PIN Code    BACK ● Back
```

• If you have not set up your password, enter 0000.

5) Press **[MENU]** to exit.

Note: If the locked channel is found during the channel scanning, you need to enter the password.

To set the new password

5) Press **[▲ / ▼]** to select "Change Password.".
6) Press **[the Number buttons]** to enter the new 4-digit number.
7) Press **[the Number buttons]** to enter the same 4-digit number again.

```
EXIT        Change Password
PICTURE
SOUND       Enter password.        *  *  *  *
CHANNEL
DETAIL      Confirm password.      *  *  —  —
LANGUAGE    ⊞ PIN Code    BACK ● Back
```
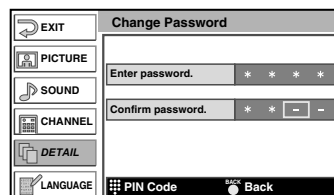
• After entering the password, "Lock Setting" menu will appear.

8) Press **[MENU]** to exit.

To set the parental rating

5) Press **[▲ / ▼]** to select "Parental Rating".
6) Press **[▲ / ▼]** to select your desired parental rating.

```
EXIT        Lock Setting
PICTURE                              ▲
            Parental Rating          No Block
SOUND       Change Password          4
CHANNEL                              5
                                     6
DETAIL                               7
                                     8
LANGUAGE                             9
                                     ▼
```
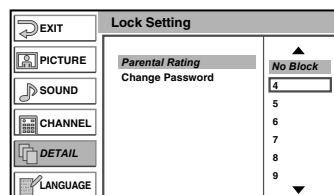
7) Press **[MENU]** to exit.

PC Settings

You can adjust the PC screen position, clock and phase. Make sure your PC is connected.

1) Press **[MENU]** to display the menu.
2) Press **[▲ / ▼]** to select "DETAIL", then press **[OK]**.
3) Press **[▲ / ▼]** to select "PC Settings", then press **[OK]**.
4) Press **[▲ / ▼]** to select the item you want, then press **[OK]**.
5) Adjust the settings.

"Auto Adjustment"

Press **[▲ / ▼]** to select "Adjust", then press **[OK]**.

	Auto Adjustment	
EXIT		
PICTURE	This function automatically adjusts the position, clock and phase of the picture element.	Cancel
SOUND		Adjust
CHANNEL		
DETAIL		
LANGUAGE		

• Each setting will be adjusted automatically.

"Horizontal Position, Vertical Position"

Press **[◄ / ►]** to adjust.

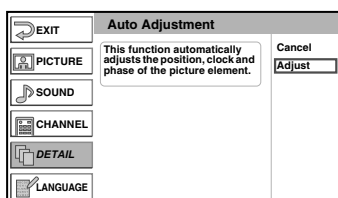| Setting	[◄]	[►]
"Horizontal Position" H. Position 0 / Adjust Move OK	move PC screen left	move PC screen right
"Vertical Position" V. Position 0 / Adjust Move OK	move PC screen down	move PC screen up

"Clock, Phase"

Press **[◄ / ►]** to adjust.

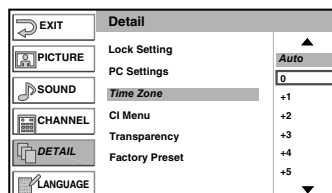| Setting	[◄]	[►]
"Clock" Clock 0 / Adjust Move OK	decrease setting value	increase setting value
"Phase" Phase 42 / Adjust Move OK		

6) Press **[MENU]** to exit.

Note: Press **[▲ / ▼]** to change the items.

Time Zone

You can set the time zone according to the resident area.

1) Press **[MENU]** to display the menu.
2) Press **[▲ / ▼]** to select "DETAIL", then press **[OK]**.
3) Press **[▲ / ▼]** to select "Time Zone", then press **[OK]**.
4) Press **[▲ / ▼]** to select the time difference you want, then press **[OK]**.

	Detail	
EXIT		▲
PICTURE	Lock Setting	Auto
	PC Settings	0
SOUND	Time Zone	+1
CHANNEL	CI Menu	+2
	Transparency	+3
DETAIL	Factory Preset	+4
LANGUAGE		+5
		▼

5) Press **[MENU]** to exit.

Transparency

You can set the menu transparent level.

1) Press **[MENU]** to display the menu.
2) Press **[▲ / ▼]** to select "DETAIL", then press **[OK]**.
3) Press **[▲ / ▼]** to select "Transparency", then press **[OK]**.
4) Press **[▲ / ▼]** to select the transparent level you want, then press **[OK]**.

	Detail	
EXIT		
PICTURE	Lock Setting	0
	PC Settings	-1
SOUND	Time Zone	-2
CHANNEL	CI Menu	-3
		-4
DETAIL	Transparency	-5
	Factory Preset	-6
LANGUAGE		
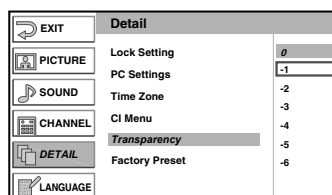
5) Press **[MENU]** to exit.

Factory Preset

You can restore all the settings to the default.

1) Press **[MENU]** to display the menu.
2) Press **[▲ / ▼]** to select "DETAIL", then press **[OK]**.
3) Press **[▲ / ▼]** to select "Factory Preset", then press **[OK]**.
4) Press **[▲ / ▼]** to select "Reset", then press **[OK]**.
   • All the settings are restored to the default.
5) Press **[MENU]** to exit.

MAINTENANCE

Panel Cleaning

• If the LCD panel should require cleaning, wipe it with a cotton or soft cloth. Before cleaning the panel, disconnect the power cord.

Servicing

• Should your unit become inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn the unit off, unplug the power cord, and call our helpline for assistance or contact the retailer.

Cabinet Cleaning

• Wipe the front panel and other exterior surfaces of the unit with a soft cloth immersed in lukewarm water and wrung dry.
• Never use a solvent or alcohol. Do not spray insecticide liquid near the unit. Such chemicals may cause damage and discoloration to the exposed surfaces.

TROUBLESHOOTING GUIDE

Sometimes a performance problem can be easily solved by checking seemingly apparent but often overlooked possibilities. Before arranging for service, check these items. It could save you time and money.

QUICK SERVICE CHECK LIST / POSSIBLE REMEDY	Remote Control Doesn't Work	Bars On TV screen	Picture Distorted	Picture Rolls Vertically	No Colour	Poor Reception on Some Channels	Weak Picture	Lines or Streaks in Picture	Ghosts in picture	Picture Blurred	Sound OK, Picture Poor	Picture OK, Sound Poor	No Picture or Sound	Different colour marks on TV screen	Black or Luminous point on TV screen	Forget the password
Try a new channel, if OK, then possibly due to poor channel reception.			×	×	×	×	×	×	×	×	×	×	×	×		
Is unit plugged in? Power at outlet?	×												×			
Is unit's [⏻/‖ (standby-on)] on?													×			
Is antenna connected to terminal on the back of the set?				×	×	×		×			×		×			
If outside antenna is being used, check for broken wire.		×	×	×	×	×	×	×	×	×	×		×			
Check for local interference.			×		×		×		×		×	×				
Turn off with [⏻/‖ (standby-on)] and then turn it on after about a minute.													×			
Adjust COLOUR control.					×											
Adjust Contrast & Brightness control.							×				×					
Check batteries in Remote Control.	×															
Move the unit away from the nearby appliances that generate strong magnetic field. Turn off using [⏻/‖ (standby-on)], then turn it on again 30 minutes or so later.														×		
Surrounding temperature is too low.			×				×				×					
Life of the Back Light is approximately 50,000 hours. Ask the Service Centre to replace.							×				×					
It is quality of the LCD Panel.															×	
Reset to the factory default, and the password will restore to "0000". Refer to "Factory Preset" on page 20.																×

SPECIFICATIONS

General Specifications

Television system:

    PAL I TV standard
    PAL B/G TV standard
    PAL D/K TV standard
    SECAM L TV standard
    SECAM L' TV standard
    SECAM B/G TV standard
    SECAM D/K TV standard

Terminals

Headphone:	1/8 inches (3.5mm)
S-Video input:	Mini DIN 4-pin jack x 1
Video input:	RCA jack x 1
Audio input:	RCA jack x 4
PC input:	D-Sub 15pin x1 (RGB)
	Mini jack ⌀3.5mm x 1 (AUDIO)
AUDIO/VIDEO:	21 pin scart jack with RGB Input x 1
Component Video input:	RCA jack x 3
	Y : 1Vp-p x 1
	Pb : 700mVp-p x 1
	Pr : 700mVp-p x 1
HDMI input:	HDMI 19pin x 1

Stereo Sound System
  2 speakers

Sound output:	1 W, 8 ohm x 2

Other Specifications

Remote control:	Digital encoded infrared light system
Power requirements:	AC 220-240 V∿, 50 Hz
Power consumption:	68 W
LCD:	19"

Dimensions (H x W x D)

(without stand):	345.3mm x 475mm x 94.5mm
(with stand):	384.6mm x 475mm x 190mm

Weight

(without stand):	4.1 kg
(with stand):	4.4 kg

• Designs and specifications are subject to change without notice and without our legal obligation.

Keep this important information about how to re-tune your TV during the **digital** TV switchover

Keep this leaflet and your Owner's Manual safe – you'll need them

....

get set for **digital** ✓

When does switchover happen?

*Copeland switches on October 17, 2007

Shetland Islands

STV North
2010

STV Central
2010/11

Border
2008/09

Tyne
Tees
2012

Ulster
2012

Yorkshire
2011

Granada
2009

Wales
2009/10

Central
2011

Anglia
2011

London
2012

West
2010

Meridian
2012

West Country
2009

The exact date you switch depends on the transmitter you are served by. To check when you switch, go to Digital UK's postcode checker on www.digitaluk.co.uk

Check your ITV news service or look at Teletext page 106 to see what TV region you're in.

Visit us at **digitaluk**.co.uk call us on **0845 6 50 50 50**†

†Calls charged at BT rate of 3p per minute daytime and 1p per minute evenings and weekends. Rates may vary for calls from non-BT lines.

Television in the UK is going digital, bringing us all more choice and new services. Starting in late 2007 and ending in 2012, television services in the UK will go completely digital, TV region by TV region.

Please see overleaf to find out when your area switches to digital.

Digital UK is the independent, non-profit organisation leading the process of digital TV switchover in the UK. Digital UK provides impartial information on what people need to do to prepare for the move to digital, and when they need to do it.

How the switchover affects your TV equipment:

Your new TV has a digital tuner built in, which means it is ready to receive the Freeview signal by simply plugging it into your aerial socket (check if you can get digital TV through your aerial now, or whether you'll have to wait until switchover, at **www.digitaluk.co.uk**).

When the TV switchover happens in your area, there are at least two occasions when you will need to re-tune your TV in order to continue receiving your existing TV channels, and also to pick up new ones. Digital UK, the body leading the digital TV switchover, will advise you when you need to re-tune during the switchover.

If you choose to connect your TV to satellite or cable with a digital box then it will not be affected by switchover, and you won't need to re-tune.

How to re-tune:

To find out how to re-tune your TV, refer to "Auto Scan" on page 9.

If you are missing any channels, it may be that they are not available in your area, or that your aerial needs upgrading.

If you have any questions, please contact your equipment supplier or call Digital UK on **0845 6 50 50 50** or visit **www.digitaluk.co.uk**

JVC

For users in the UK :
If you have any problems setting up your new TV, please call the **JVC** Helpline on **0870 330 5000.**

For users in the Republic of Ireland :
If you have any problems setting up your new TV, please call the **JVC** Helpline on **1890-582500.**