



JVC

AV-28ED5BN

AV-28ED5SN

DEUTSCH

ENGLISH

JVC

FARBFERNSEHGERÄT

BEDIENUNGSANLEITUNG

COLOUR TELEVISION

INSTRUCTIONS




50064523

0205TKH-VT-VT



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Safety Precautions

1. Power Source

The receiver should be operated only from a **220-240V AC, 50 Hz.** outlet. Ensure you select the correct voltage setting for your convenience.

2. Power Cord

The power supply cord should be placed so that they are not likely to be walked on or pinched by items placed upon them or against them. Pay particular attention to cord where they enter the plug, power outlet, and the point where they exit from the receiver.

3. Moisture and Water

Do not use this equipment in a humid and damp place (avoid the bathroom, the sink in the kitchen, and near the washing machine). Do not expose this equipment to rain or water and do not place objects filled with liquids on it as this may be dangerous.

4. Cleaning

Before cleaning, unplug the receiver from the main supply outlet. Do not use liquid or aerosol cleaners. Use with soft and dry cloth.

5. Ventilation

The slots and openings on the receiver are intended for ventilation and to ensure reliable operation. To prevent overheating, these openings must not be blocked or covered in anyway.

6. Lightning

In case of storm and lightning or when going on holiday, disconnect the power cord from the wall outlet.

7. Replacement Part

When replacement parts are required, be sure the service technician has used replacement parts which are specified by the manufacturer or have the same specifications as the original one. Unauthorized substitutions may result in fire, electrical shock, or other hazards.

8. Servicing

Please refer all servicing to qualified personnel. Do not remove cover as this may result in electric shock.

9. Flame sources

Do not place naked flame sources on the apparatus.

10. Stand-By

Do not leave your TV stand-by or operating condition when you leave your house.

Warning!

Any intervention contrary to regulations, in particular, any modification of high voltage or a replacement of the picture tube may lead to an increased concentration of x-rays. Any television modified in this way no longer complies with license and must not be operated.

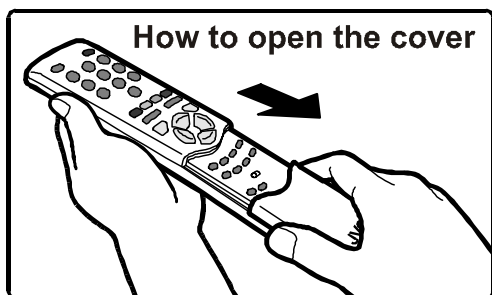
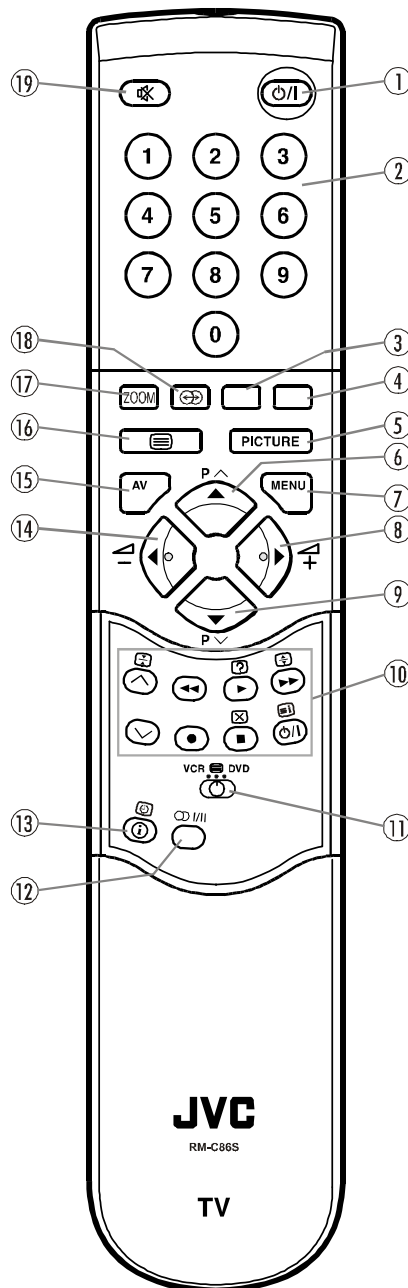
Instructions for waste disposal:

Packaging and packaging aids are recyclable and should principally be recycled. Packaging materials, such as foil bag, must be kept away from children.

Batteries, including those which are heavy metal-free, should not be disposed of with household waste. Please dispose of used batteries in an environmentally sound manner. Find out about the legal regulations which apply in your area.

Remote Control Buttons

- ① = Stand By / Power
- ② **0 - 9** = Direct Program
- ③ = Yellow Button / Factory Settings in Picture Menu
- ④ = Blue Button
- ⑤ **PICTURE** = Picture Mode Change
- ⑥ = Programme Up (Cursor Up)
- ⑦ **MENU** = Menu Button
- ⑧ = Cursor Right / Volume +
- ⑨ = Programme Down (Cursor Down)
- ⑩ Teletext / VCR / DVD Control Buttons
- ⑪ = VCR / / DVD Switch
- ⑫ = Stereo / Bilingual Button
- ⑬ = Information Button / T-V Link in Program Menu
- ⑭ = Cursor Left / Volume -
- ⑮ **AV** = AV Button
- ⑯ = Teletext Button
- ⑰ **ZOOM** = Zoom (Picture Size) Change / Red Button
- ⑱ = Hyper Sound / Green Button
- ⑲ = Mute



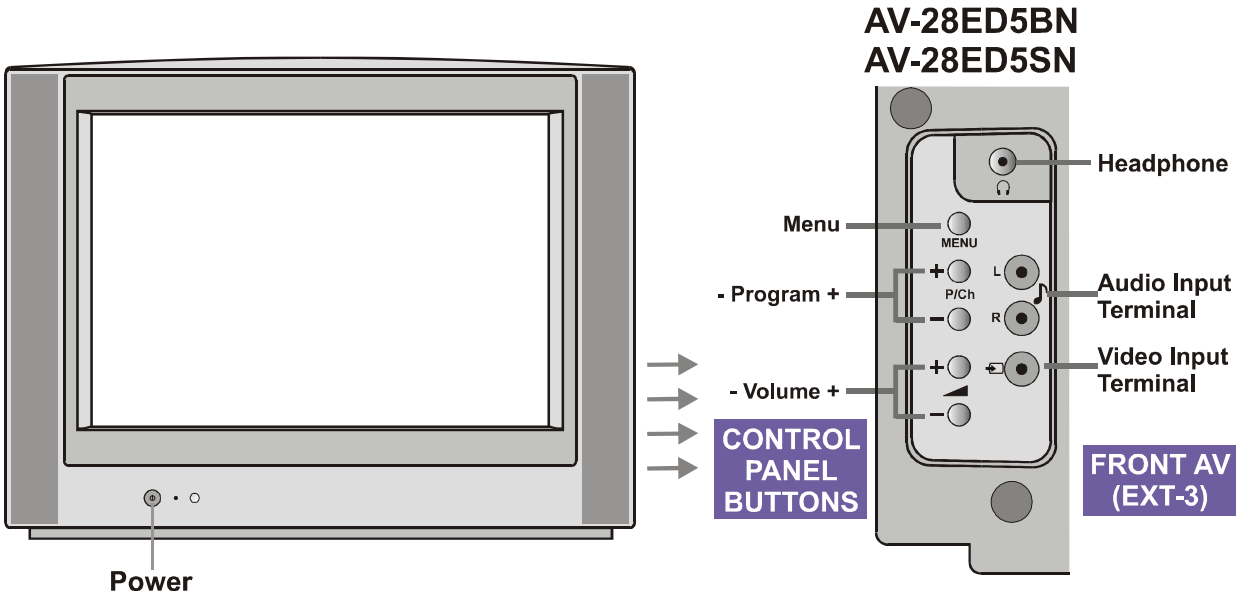
CAUTION
RISK OF ELECTRIC SHOCK



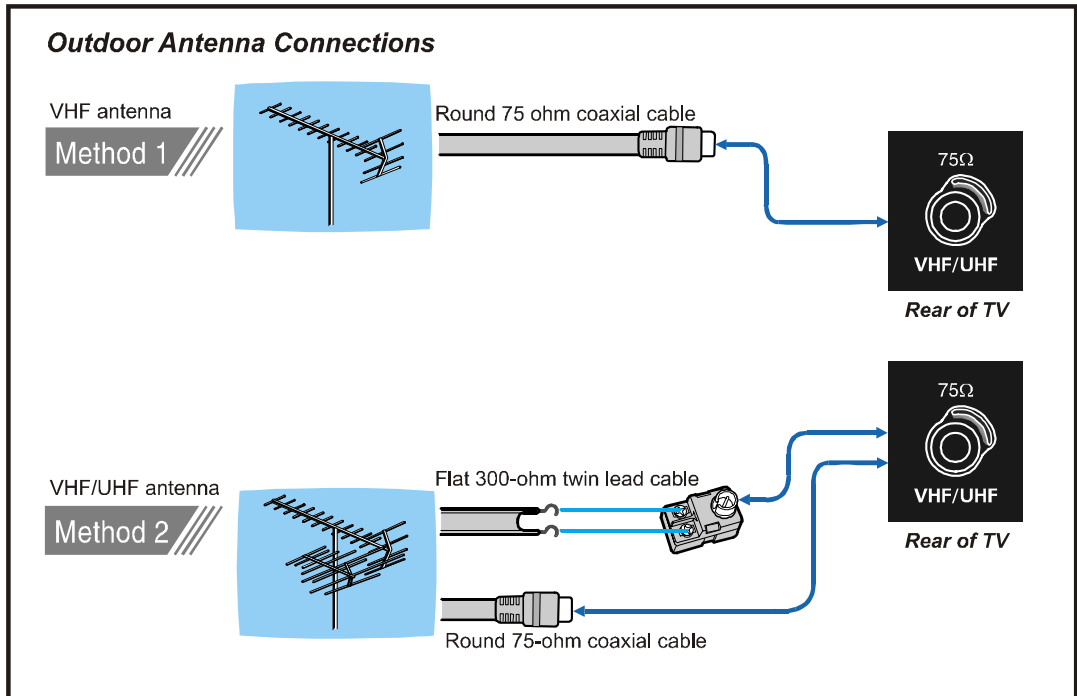
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock of persons.

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 appliance.

Control Panel Buttons



Antenna Connections



Preparation

Place TV on a solid surface.

For ventilation, leave a space of at least 10 cm free all around the set. To prevent any fault and unsafe situations, please do not place any objects on top of the set.

“Use this apparatus in tropical and moderate climates.”

Features

- It is a remote controlled colour television.
- 200 programmes from VHF, UHF bands or cable channels can be preset.
- It can tune cable channels.
- Controlling the TV is very easy by its menu driven system.
- It has two Euroconnector sockets for external devices (such as video recorder, video games, audio set, etc.)
- Front AV (EXT-3) Input available.
- Stereo sound systems (German+Nicam) are available.
- 3D Sound (3-Dimensional Sound).
- Full function Teletext (Fastext, Toptext).
- It is possible to connect headphone.
- Direct channel access.
- A.P.S. (Automatic Programming System).
- All programmes can be named.
- Forward or backward automatic tuning.
- Sleep timer.
- Child Lock.
- Blue Background.
- Comb Filter : Digital circuitry to make adjustments providing outstanding picture quality with sharp, crisp edges, while virtually eliminating dot crawl.
- CTI : (Colour Transient Improvement) Improvement of horizontal transitions of chrominance (colour) signals.
- T-V Link.
- Automatic sound mute when no transmission.
- When no valid signal is detected, after 5 minutes the TV switches itself automatically to stand-by mode.
- WSS (Wide Screen Signaling).
- NTSC Playback.

Before Switching on your TV

Power connection

Important: The TV set is designed to operate on **220-240 V AC, 50 Hz**.

- After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.

Aerial Connections

- Connect the aerial plug to the aerial input socket located at the back of the TV.

How to connect the external equipments

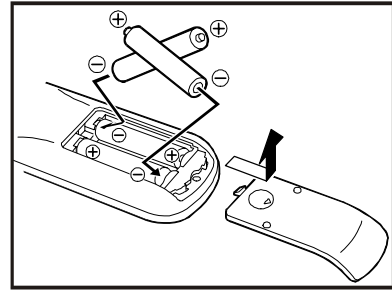
See “**Connect the External Equipments**” on **page 31**.

- See the instruction manuals provided with the external devices too.

Inserting batteries in the remote control handset

- Remove the battery cover located on the back of the handset by gently pulling upwards from the indicated part.
- Insert two **AAA (R03)** or equivalent type batteries inside.

- Replace the battery cover.



NOTE: Remove batteries from remote control handset when it is not to be used for a long period. Otherwise it can be damaged due to any leakage of batteries.

Switching the TV ON/OFF

You can operate your TV either using the remote control handset or directly using the TV onset buttons.

To switch the TV on

Your TV will switch on in two steps:

1- Press the power button located on the front of the TV. Then the TV switches itself to standby mode and the **RED LED** located below the TV turns on.

2- To switch on the TV from stand-by mode either:

Press a digit button on the remote control so that a programme number is selected,

or,

Press Standby / Power Button or Programme Up and Down buttons on the TV or on the remote control respectively, so the TV will switch on and the **RED Led** will turn **GREEN**.

IMPORTANT:

- If no aerial signal is received at the selected program for a period of 5 minutes then your TV automatically switches into stand-by mode.

To switch the TV off

• Press the stand-by button on the remote control, so the TV will switch to stand-by mode and the **GREEN LED** will become **RED**, or,

• Press the power button located on the front of the TV.

NOTE: If you have switched of the TV set from the power button instead of the remote control, next time you press the power button, the TV set will switch on without going to the stand-by mode.

Initial Settings

When the TV is first turned on. It enters the initial setting mode, and the **AUTOSTORE** menu is displayed. Follow the instructions below to do the initial settings.



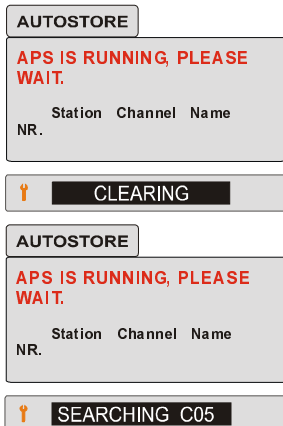
- The **AUTOSTORE** menu does not appear when your TV has been turned on once. In this case, use the "**LANGUAGE**", "**COUNTRY**" and "**AUTOSTORE**" items in the **INSTALL** menu to make the initial settings. For details, see "**Install (Installation) Menu**" on page 24.
 - If you want to do the initial settings later, press **PICTURE** button to turn the menu off.
1. Press "**P ^**" or "**P v**" button to select "**LANGUAGE**" item. Then press the "**◀**" or "**▶**" button to enter the "**LANGUAGE**" sub-menu.



2. Press "**P ^**" or "**P v**" button to select a language. Then press the "**◀**" or "**▶**" button to store it.
3. Press the **MENU** button to return to the **AUTOSTORE** menu.
4. Press "**P ^**" or "**P v**" button to select "**COUNTRY**" item. Then press the "**◀**" or "**▶**" button to enter the "**COUNTRY**" sub-menu.

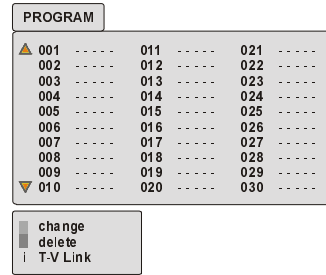


5. Press "**P ^**" or "**P v**" button to select the country where you are now located. Then press the "**◀**" or "**▶**" button to store it.
6. Press the **MENU** button to return to the **AUTOSTORE** menu.
7. Press "**P ^**" or "**P v**" button to select "**Continue**" item. Then press "**▶**" button to start the **AUTOSTORE** function. The **AUTOSTORE** function automatically stores the received channels in your TV's programme numbers.



APS: Automatic Programming System

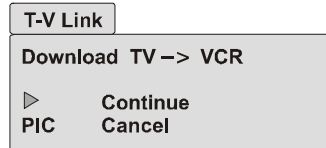
After the **AUTOSTORE** is finalized, "**PROGRAM**" menu appears. You can delete a channel or change a programme number. For details, see "**Program Menu**" on page 26.



8. If you do not have a **T-V LINK** compatible VCR, press "**PICTURE**" button to exit the menu.

If you have a **T-V LINK** compatible VCR connected to the

EXT.2 terminal, press "**Ⓢ**" button to display "**T-V LINK**" menu. Then follow the operating procedure "**Downloading data to VCR**" in the following "**T-V LINK**" section.



If a channel you want to view is not stored, store it using the **TUNING** menu. For details, see "**Tuning Menu**" on page 24.

T-V LINK

When a **T-V LINK** compatible VCR is connected to the **EXT.2** Terminal on the TV, it is easier to set up the VCR and to view videos. **T-V LINK** uses the following features:

To use T-V LINK functions:

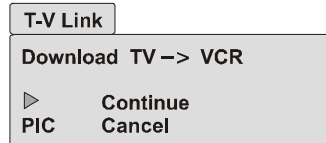
A "**T-V LINK compatible VCR**" means a JVC video cassette recorder with the **T-V LINK** logo, or with one of the following logos. However, these VCRs may support some or all of the features described earlier. For details, see your VCR instruction manual.

- "**Q-LINK**" (a trademark of Panasonic Corporation)
- "**Data Logic**" (a trademark of Metz Corporation)
- "**Easy Link**" (a trademark of Philips Corporation)
- "**Megalogic**" (a trademark of Grundig Corporation)
- "**SMARTLINK**" (a trademark of Sony Corporation)

Downloading data to VCR:

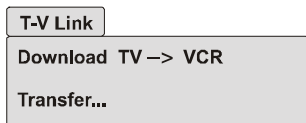
The VCR will automatically download the registered data on the TV channels from the TV. This means you do not need to set up the programme channels on your VCR manually.

The "**T-V LINK**" menu will be displayed when you press the "**Ⓢ**" button while "**PROGRAM**" menu is displayed, or whenever the "**INSTALL**" menu operations are performed.



Press "**▶**" button to start downloading data to VCR.

- If you do not want to do, press the “**PICTURE**” button to exit the menu.



When “**FEATURE NOT AVAILABLE**” is displayed:

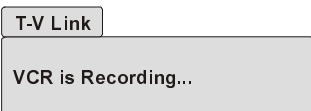
If “**FEATURE NOT AVAILABLE**” is displayed, the download was not performed correctly. Before trying to download again, check that:

- The VCR power is turned on
- The VCR is T-V LINK compatible
- The VCR is connected to the EXT.2 terminal
- The SCART cable is fully wired.

Direct Rec:

“What You See Is What You Record”

You can easily record to VCR the images that you are watching on the TV. For details, read the manual for your VCR. Use your VCR controls. You cannot carry out Direct Rec using your TV's control.



When the VCR is not ready (for example when there is no tape inserted), “**NO RECORDING**” is displayed.

In the following situations, the VCR will stop recording if the TV is turned off, if the TV channel or input is changed, or if the menu is displayed on the TV:

- When recording images from an external device connected to the TV. (for example a camcorder)
- When recording a TV channel after it has been unscrambled on a decoder.
- When recording a TV channel by using the TV's output because the VCR's own tuner cannot properly receive that channel.

TV auto power on/VCR image view:

When the VCR starts playing, the TV automatically turns on and the images from **EXT.2 (EXT-2)** terminal appear on the screen.

This function does not happen if your TV's main power is turned off. Set your TV's main power to on (standby mode).

Operating with the onset buttons

Volume setting and programme selection can be made using the buttons on the right side of the TV.

Volume Setting:

- Press “**-**” button to decrease volume or “**+**” button to increase volume, so a volume level scale will be displayed on the screen.

Programme Selecting:

- Press “**P/Ch+**” button to select next programme or “**P/Ch-**” button to select the previous programme.

Entering Main Menu:

- Press “**MENU**” button to enter main menu. In the main menu select submenu using “**P/Ch+**” or “**P/Ch-**” button and enter the submenu using “**▲**” or “**▼**” button. To learn the usage of the menus, refer to the **Menu System** section of this manual.

Operating with Remote Control

The remote control handset of your TV is designed to control all the functions of the model you selected. The functions will be described in accordance with the menu system of your TV.

Functions which you can use out of menu system are described below.

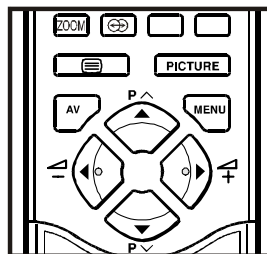
Volume Setting:

Press “**+**” button to increase volume.

Press “**-**” button to decrease volume.

Programme Selecting (Previous or next programme):

- Press “**P ▼**” button to select the previous programme.
- Press “**P ▲**” button to select the next programme.



Programme Selecting (direct access):

Press digit buttons on the remote control handset to select programmes between 0 and 9. TV will switch to the selected program after a short delay.

- For a two or three digit program number enter the second or third digit after pressing the first digit within 2 seconds.

Menu System

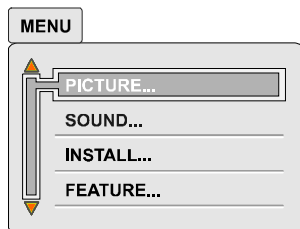
Your TV has been designed with a menu system. Display “**MENU**” (main menu) and enter one of four menus (**PICTURE**, **SOUND**, **INSTALL** and **FEATURE**).

- 1- Press “**MENU**” button to display “**MENU**” (main menu). The menu titles will be displayed in the main menu.
 - 2- Press “**P ▲**” or “**P ▼**” button to select a menu title, then press “**◀**” or “**▶**” button to enter the menu.
- To exit a menu, press “**PICTURE**” button.
 - To go to the previous menu, press “**MENU**” button.

Picture Menu

To change picture settings:

- Press “**MENU**” button, now you are in main menu. In the main menu, select **PICTURE** using “**P ▲**” or “**P ▼**” button, then enter the picture menu pressing “**◀**” or “**▶**” button.



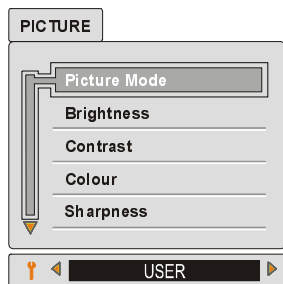
Note: When Picture Mode is not "USER", BRIGHTNESS, CONTRAST and COLOUR options can not be operated "◀" or "▶" button.

Factory Settings:

When Picture Mode is selected **User** if you press the **YELLOW** button the adjustments switches themselves to the factory settings.

You can change the values of this items firstly by selecting the item by "P ^" or "P v" button and then by using "◀" or "▶" button. The **PICTURE** menu disappears and level indicators are displayed while items are changed. The **PICTURE** menu is restored after adjustment is finished.

This item is used to change the picture mode. By pressing "◀" or "▶" button you may choose one of these options: **Bright, Standard, Soft, User.**



You can change **Brightness** only when Picture Mode is selected **User**.

- You can change the **Brightness** by "◀" or "▶" button after selecting this item.



You can change **Contrast** only when Picture Mode is selected **User**.

- You can change the **Contrast** by "◀" or "▶" button after selecting this item.



You can change **Colour** only when Picture Mode is selected **User**.

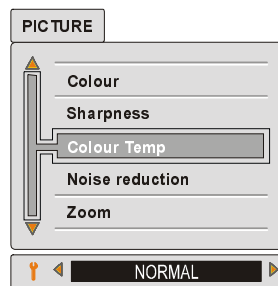
- You can change the **Colour** by "◀" or "▶" button after selecting this item.



- You can change the **Sharpness** by "◀" or "▶" button after selecting this item.



- You can adjust the **Colour Temp** item as **Normal, Warm** and **Cool**. Using "◀" or "▶" button toggle between these three settings.



- The **Noise reduction** can be adjusted in four different levels: **Minimum, Medium, Maximum** and **Auto**. Additionally it can be cancelled by selecting the **OFF** option. Pressing "◀" or "▶" button toggles between these five settings.



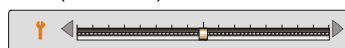
- The **Zoom** can be three different modes: **Auto, 4:3** or **16:9** modes. Using "◀" or "▶" button toggle between these different screen formats.

The Picture Mode can be stored for all channels (200 channels) individually.

It is also possible to change picture modes directly by pressing "ZOOM" button (**RED button**) on your remote control.



- You can change the **Hue** for **NTSC 3.58/4.43** systems by "◀" or "▶" button after selecting this item. A level indicator for Hue is displayed while changing this item. The Hue bar is displayed while an NTSC signal is input from the **EXT-1, EXT-2, or EXT-3 (Front AV)** terminal.



Recalling Factory settings:

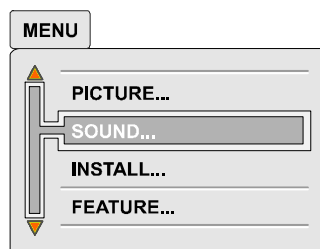
You can re-set the current **PICTURE** menu settings (except **Noise Reduction** and **Colour Temp** settings) to the default settings.

- Press "**PICTURE**" button when no menu appears.

Sound Menu

To change sound settings:

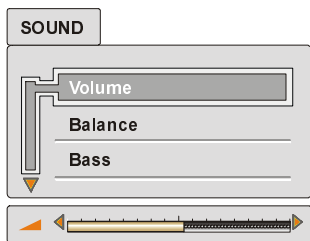
- Press "**MENU**" button, now you are in main menu. In the main menu, select **SOUND** using "P ^" or "P v" button, then enter the sound menu pressing "◀" or "▶" button.



Setting Volume:

Using "P ^" or "P v" button to select Volume.

- Press "▶" button to increase volume.
- Press "◀" button to decrease volume.



Setting Balance:

- Using “P ^” or “P v” button select Balance.
- Press “▶” button to change balance rightward.
- Press “◀” button to change balance leftward.



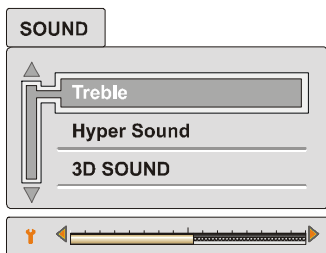
Setting Bass Level:

- Using “P ^” or “P v” button select Bass.
- Press “▶” button to increase bass level.
- Press “◀” button to decrease bass level.



Setting Treble Level:

- Using “P ^” or “P v” button select Treble.
- Press “▶” button to increase treble level.
- Press “◀” button to decrease treble level.



Hyper Sound:

You can use this feature to switch on or off Hyper Sound. Pressing “◀” or “▶” button will turn on or off this feature. If the current sound system is **MONO** and the Hyper Sound is set **ON**, then the sound will be heard as if it is **STEREO**. If the current sound system is **STEREO**, switching Hyper Sound on will make the sound deeper. Switching it off will make no change in **MONO** and **STEREO**.



Hyper Sound can be set On or Off also by **GREEN** button.

3D SOUND (3-Dimensional Sound):

This function creates a 3-dimensional sound by using 2 existing loudspeakers on your TV set without any additional speakers.

Pressing “◀” or “▶” button will turn this feature ON and OFF.

Note:

3D SOUND is functional only when the current sound system is STEREO.



Install (Installation) Menu

- Press “MENU” button, now you are in main menu. In the main menu, select **INSTALL**, using “P ^” or “P v” button. Then enter the **INSTALL** menu pressing “◀” or “▶” button.



Menu Language Selection:

Press the “P ^” or “P v” button to select “LANGUAGE” item.

Press “◀” or “▶” button to enter “LANGUAGE” sub-menu.



Press “P ^” or “P v” button to select the desired menu language:

- After selecting the menu language press “◀” or “▶” button to store the selected language.
- Press **MENU** button to return to the **INSTALL** menu, or Press **PICTURE** button to exit the menu.

Country Selection:

- Press the “P ^” or “P v” button to select the “COUNTRY” item.
- Press “◀” or “▶” button to enter the “COUNTRY” sub-menu.



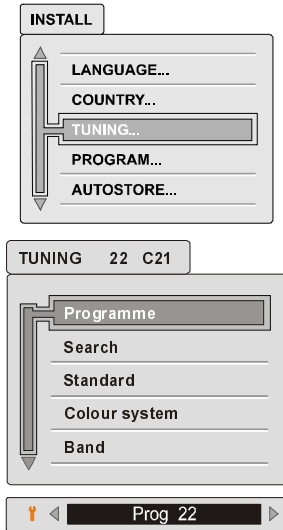
- Press “P ^” or “P v” button to select the country where you are now located.
- After selecting the country, press “◀” or “▶” button to store the selected country.
- Press **MENU** button to return to the **INSTALL** menu, or Press **PICTURE** button to exit the menu.

Tuning Menu:

You can store a channel manually, or modify the current settings of a channel (for example, changing the channel name).

In an AV mode, you can change only the "MODE" or "COLOUR SYSTEM" setting.

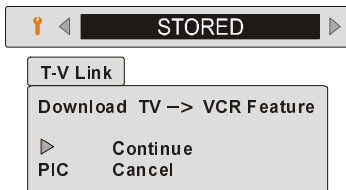
- If you want to modify the current settings of a channel, select the channel of which you want to modify the setting. Then display the main menu on the screen.
- Press "P ^" or "P v" button to select "TUNING" item.
- Press "◀" or "▶" button to enter "TUNING" menu.



1. Press "P ^" or "P v" to select an item in the "TUNING" menu. Then press "◀" or "▶" button to change the setting.
2. After all settings of a channel are completed, press "P ^" or "P v" button to select "Programme" item. Then press "◀" or "▶" button to select a programme number which you want to store the setting.



3. Press "P ^" or "P v" button to select "Store" item. Then press "◀" or "▶" button to store the setting. The "STORED" appears at the bottom of the menu for 3 seconds. Then T-V LINK menu appears.



4. If you do not have a T-V LINK compatible VCR, press "PICTURE" button to exit the menu.

If you have a T-V LINK compatible VCR connected to the EXT.2 terminal, follow the operating procedure "Downloading the data to VCR" on page 21 to transmit the Programme table data to the VCR.

Search:

You can search a channel manually.

- Select "Search" item. Then press "◀" or "▶" button to start searching. "SEARCHING" is displayed while the TV is searching a channel.
- Searching stops when the TV finds a channel. Then the channel is displayed.
- Press "◀" or "▶" button repeatedly until the channel you want appears.

- When you cannot search a channel you want, select the "Standard" item and select other broadcasting system. Then start searching again.



Standard:

- If you cannot hear the normal sound even when the picture appears normally, select the correct broadcasting system to hear the sound normally.
- Select "Standard" item. Then press "◀" or "▶" button to select a broadcasting system.



Colour system:

- If the picture is not clear or no colour appears, select the correct colour system to display the picture normally.
- Select "Colour system" item. Then press "◀" or "▶" button to select a colour system.



Band, Channel:

- If you know a channel number, you can find it directly by entering the channel number.
- Select the "Band" item. Then press "◀" or "▶" button to select the band (C or S) where the channel you want is located.



- Select the "Channel" item. Then press "◀" or "▶" button to select the channel number, or enter the channel number with the digit buttons. The available channel numbers differ depending on your "COUNTRY" and "Standard" settings.



Fine tuning:

If the channel reception is poor, fine-tune the channel.

- Select "Fine tuning" item. Then press "◀" or "▶" button to fine-tune the channel.



Name:

You can store the channel name or change it.

- Select "Name" item. Then press "◀" or "▶" button to display a cursor.
- Press "P ^" or "P v" button to select a character and press "◀" or "▶" button to move the cursor.
- After the name is completed, press the MENU button.



Mode:

Set "Mode" item to "TV" for the TV channels.

- When you watch a picture from your VCR and the picture is unstable, you may improve it by changing the "Mode" setting from "TV" to "VCR".



Decoder (EXT-2):

You can only set "Decoder (EXT-2)" item to "ON" if you have a decoder connected to a T-V LINK compatible VCR, which

in turn is connected to the **EXT.2** terminal. To use this item, please see the

“Using the Decoder (EXT-2) function” on the following section.



Store:

After the all settings are completed, store the new channel's setting to the programme number which you selected.

- Press “P ^” or “P v” button to select “Store”, then press “◀” or “▶” to store it.



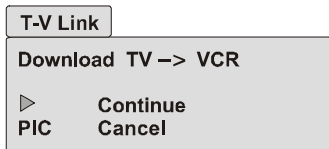
Using the Decoder (EXT-2) function

If you have a decoder connected to a **T-V LINK** compatible **VCR**, which in turn is connected to the **EXT.2** terminal, use **DECODER (EXT-2)** to unscramble the scrambled TV channels.

1. Exit the menu.
2. Turn on the decoder power.
3. Display the scrambled TV channel on the TV. Even if the decoder is working, a scrambled picture appears.
4. Display the “INSTALL.” menu again.
5. Press “P ^” or “P v” button to select **DECODER (EXT-2)**, then press “◀” or “▶” button to set to “ON”



6. Press “P ^” or “P v” to select **STORE**, then press “◀” or “▶” button to store it. “**T-V LINK**” menu will appear after the TV stores the setting.



7. Follow the operating procedure “**Downloading the data to VCR**” on **page 21** to transmit the revised programme table data to the VCR.

- If you do not want to transmit, press “**PICTURE**” button to exit the menu.

Note:

You can only use this item if you have a decoder connected to a T-V LINK compatible VCR to EXT.2 terminal. Setting this item to “ON” by mistake causes the picture/sound of a TV channel you are currently viewing to disappear.

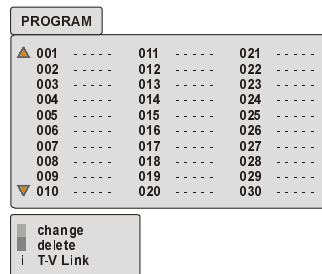
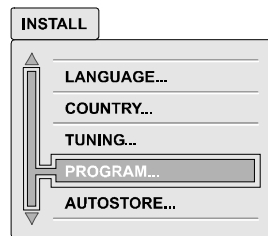
If this item has been set to “ON” but the TV channel cannot be unscrambled, check the following:

- Has the decoder been connected to the VCR properly according to the VCR and Decoder instruction manuals?
- Can the TV channel be unscrambled with a decoder?
- Do you need to change the VCR settings in order to connect the decoder? Confirm that the VCR is set properly by rechecking the VCR instruction manual.

Program Menu:

You can use the **PROGRAM** menu to change a programme number, delete a channel.

- Press “P ^” or “P v” button to select “**PROGRAM**” item.
- Press “◀” or “▶” button to enter the **PROGRAM** menu.



To choose a channel in the PROGRAM menu:

Press “P ^” / “P v” / “◀” / “▶” button.

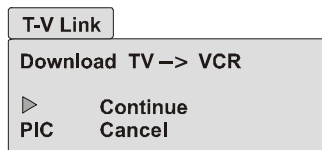
The colour of the programme number that you choose is changed in the **PROGRAM** menu and you can view the picture of that channel.

Caution:

Using “**DELETE**” or “**CHANGE**” item rewrite the current channel list in the **PROGRAM** menu. Therefore, the programme numbers of some of channels will change.

When you complete the settings of PROGRAM menu:

If you have a **T-V LINK** compatible VCR, press the “” button to display the **T-V LINK** menu. Then follow the operating procedure “**Downloading the data to VCR**” on **page 21** to transmit the Programme table data to the VCR.



If you do not have a **T-V LINK** compatible **VCR**, press “**PICTURE**” button to exit the menu.

To change a programme number (CHANGE):

1. Select a channel that you want to change its programme number.
2. Press Blue button to enter the **CHANGE** mode.
3. Press “P ^” / “P v” / “◀” / “▶” button to select the programme number that you want to change the programme number of the selected channel to.
4. Press Blue button. Two channels of the selected programme numbers will be exchanged.

To delete a channel (DELETE):

1. Select a channel that you want to delete.
2. Press Red button to delete it.

Autostore Menu:

The **AUTOSTORE** function automatically programmes the received channels in your TV's programme numbers.

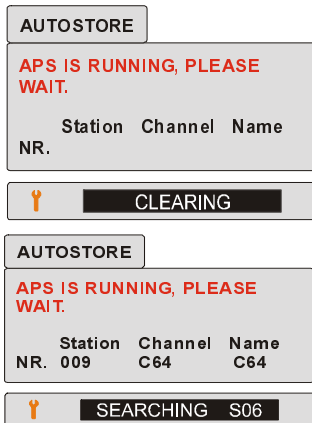
Before use this function, please confirm that the "**LANGUAGE**" and "**COUNTRY**" setting are correct.

1. Press "**P** ^" or "**P** v" button to select "**AUTOSTORE**" item.
2. Press "**◀**" or "**▶**" button to enter the **AUTOSTORE** menu.



- A warning message "**All prestored programmes will be erased!**" appears in a message box.

3. Press "**▶**" button to start the **AUTOSTORE** function.
 - To cancel the **AUTOSTORE** function, press the "**PICTURE**" button.

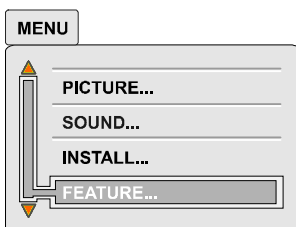


4. After the **AUTOSTORE** is finalized, the **PROGRAM** menu appears.

Please see "**Program Menu**" on above section.

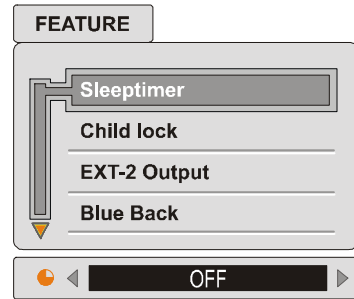
Feature Menu

- Press "**MENU**" button, now you are in main menu. In the main menu, select **FEATURE**, using "**P** ^" or "**P** v" button. Then enter the feature menu pressing "**◀**" or "**▶**" button.



Sleep timer:

The sleep timer is used to turn the TV off after a defined period. Press "**◀**" or "**▶**" button to choose a period of time after selecting this item. The timer can be programmed between Off and 120 minutes in steps of 10 minutes. One minute before the "**Sleep timer**" function turns the TV off, the remaining time will be displayed.



Child lock:

You can disable the control panel buttons (except the POWER button) with this item.

Press "**◀**" or "**▶**" button to change the setting to ON or OFF after selecting this item.

When you set this item to ON, the TV can be operated only by using the remote control handset.



Warning: If Child Lock item is set to ON, the TV can not be operated by VCR.

Setting External Source Output:

- You can use this menu to select the internal or external source that will be output at **EXT.2 (EXT-2)** terminal.
- In the "**FEATURE**" menu select "**EXT-2 Output**" using "**P** ^" or "**P** v" button. Then select the source you want to be output at **EXT-2** pressing "**◀**" or "**▶**" button (one of the sources: **TV, EXT-1** or **EXT-3 (Front AV)**).








Blue Background During No-Signal:

The **Blue Back** feature can be set by "**◀**" or "**▶**" button to either **On** or **Off**.




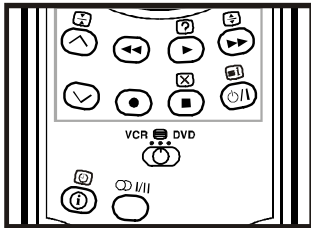
Other Features

Sound Mute


To cut off the sound of the TV press  button. The sound will be cut off. To cancel mute, press  or  or  button. The volume level will be the same as the level before mute if you cancel mute pressing  button again.

Stereo / Bilingual

- If the TV channel you are watching broadcasts in two languages (e.g. Eurosport), you can select the dubbed or the original language, pressing the  button.
- When the stereo broadcast is received poorly, you can change from stereo to mono sound so that you can hear the broadcast more clearly and easily.





Information on Screen

First pressing the  button displays the current status “**Programme number**”, “**Station name**” and “**Sound status**”.

Pressing this button again displays the current time.

Pressing this button once more remove the on-screen display.

To Display the Time


- While watching a TV programme with Teletext transmission press  button twice. The current time information, captured from Teletext will be displayed at the upper left corner of the screen.
- If the programme being watched does not have Teletext transmission, no time information will be displayed.
- The time information will disappear after pressing  button again.

Picture

You can change **Picture Mode** settings by pressing “**PICTURE**” button when no menu appears.

VCR / DVD Control Buttons and VCR / / DVD Switch

The buttons can be used to operate a JVC brand VCR or DVD player. Pressing the button having the same appearance as the original remote control button of a device makes the function work in the same way as the original remote control.

1. Set the VCR /  / DVD Switch to the VCR or DVD position.


VCR:

When you are operating the VCR, set the switch to the VCR position.

DVD:







When you are operating the DVD player, set the switch to the DVD position.

(Text):

When you are viewing Teletext programmes, set the switch to the  (Text) position.

2. Press the VCR / DVD Control Button to control your VCR or DVD player.


Note:

- If your device is not made by JVC, these buttons cannot be used.
- Even if your device is made by JVC, some of these buttons or any one of the buttons may not work, depending on the device.
- You can use the  /  buttons to choose a TV channel which the VCR will receive or choose the chapter which the DVD player plays back.
- Some DVD player models use the  /  buttons for operating of Fast forward/backward functions and choosing the chapter. In this case, the  /  the buttons do not work.

Teletext




Teletext is an information system that displays text on your TV screen. Using the Teletext information system you can view a page of information on a subject that is available in the list of contents (index).

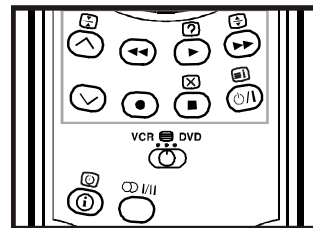
No on screen display will be available in text mode.

While no teletext information available in the selected programme, if you press (teletext)  button, “**No Teletext Transmission**” warning appears at the center of the screen.

No contrast, brightness or colour control, but volume control is available in text mode.

To operate Teletext

- Select a TV station on which Teletext is being transmitted.
- Press (teletext)  button. Usually the list of contents (index) is displayed on the screen.
- Set the VCR /  / DVD switch to the  (Text) position.

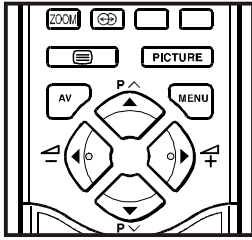


To select a page of Teletext

- Press the appropriate digit buttons for the required Teletext page number.

The selected page number is displayed at the top left corner of the screen. The Teletext page counter searches until the selected page number is located, so that the desired page is displayed on the screen.

- Press “P ^” button to move the Teletext screen forward one page at a time.
- Press “P v” button to move the Teletext screen backward one page at a time.



To Select Index Page

- To select the page number of the index (generally page 100), press “[]” button.

Searching for a teletext page while watching TV

- In the Teletext mode pressing “[X]” button will switch the screen to the TV mode. In the TV mode enter a page number using digit buttons. As you enter last digit of page number, “[]” sign will replace the page number and flash until the entered page number is found. Then the page number will replace “[]” sign again. Now you can display this teletext page pressing “[X]” button.

To Select Double Height Text

- Press “[+]” button for the top half of the information page to be displayed in double height text.
- Press “[+]” button again for the bottom half of the information page to be displayed in double height text.
- Press “[+]” button once more for the full page of normal height text.

To Reveal “concealed” Information

- Pressing “[?]” button once will reveal answers on a quiz or games page.
- Pressing “[?]” button again will conceal the revealed answers.

To Stop Automatic Page Change

The teletext page you have selected may contain more information than what is on the screen; the rest of the information will be displayed after a period of time.

- Press “[+]” button to stop the automatic page change.
- Press “[+]” button again to allow the next page to be displayed.

To Select a Subcode Page

Subcode pages are subsections of long Teletext pages that can only be displayed on the screen one section at a time.

- Select the required Teletext page.
- Press “[]” button.
- Select the required subcode page number by pressing four digit buttons (e.g. 0001).
- If the selected subcode page is not displayed in a short time, press “[X]” button. TV programme will be displayed on the screen.

- Teletext page number will be displayed on the upper left corner of the screen when the selected page is found.
- Press “[X]” button to display the selected Teletext page.

To exit Teletext

- Press “[]” button. The screen will switch to TV mode.

Fastext and Toptext

Teletext mode will be selected according to transmission automatically.

Your CTV supports the 7 page Teletext system. When the page number of any of the 7 pages in memory is entered, the system will not search for the requested page; instead it will display the page automatically.

- Press “P ^” button to move the Teletext screen forward one page at a time.
- Press “P v” button to move the Teletext screen backward one page at a time.

For Fastext and Toptext:

The subject-heading for the information may have a particular colour or can be in a form located in a coloured box.

- Press an appropriate **RED, GREEN, YELLOW** or **BLUE** button in order to reach the relevant page quickly.

For TOPTXT:

If Toptext transmission is present, colour coded buttons will appear in status row.

If Toptext transmission is not present, status row will not appear.

In Toptext mode the “P ^” or “P v” commands will request the next or previous page respectively. If Toptext transmission is not available, in case of operation of these commands, wraparound occurs. For example page 100 appears to be one greater than page 199.

Connect the External Equipments

Via the Euroconnector

Your TV set has two Euroconnector sockets. If you want to connect equipments (e.g. video recorder, decoder, etc.) which have Euroconnectors, to your TV, use the **EXT.1 (EXT-1)**, **EXT.2 (EXT-2)** terminals.

T-V LINK compatible VCR

Be sure to connect the T-V LINK compatible VCR to the **EXT.2** terminal. If not, the T-V LINK function will not work properly.

- When connecting a T-V LINK compatible VCR to the **EXT.2** terminal, be sure to connect the decoder to the VCR. If not, the **T-V LINK** function may not work properly. And then set the **DECODER (EXT-2)** function for the channel to **ON** to unscramble a scrambled channel. For details, see "**Using the Decoder (EXT-2) function**" on **page 26**.

RGB mode

If an equipment can output the **RGB** signals, connect it to the **EXT-1 (EXT.1)** terminal.

EXT-2 S Mode

If the equipment connected to your TV set supports S-Video (Y/C) output from Euroconnector, you can have a better picture quality by selecting **EXT-2 S** mode and connecting your equipment to the **EXT.2 (EXT-2 S)** terminal of TV. See your equipment's booklet to check if your equipment has such feature.

Via the RCA jacks

If you have an equipment (such as a Camcorder) which has the RCA jacks, connect it to the **Front AV (EXT-3)** terminal with the video and audio cables.

- If the equipment has the mono audio jack, connect it to the **AUDIO-L** jack.

Via the ANT (aerial) socket

If your equipment does not have a Euroconnector or RCA jacks, connect it to the TV with an aerial cable. For details, see the manual provided with the equipment.

- To store the test signal that comes from the equipment in a programme number, follow the instructions of "**Tuning menu**" on **page 24**. The programme number 0 is usually used for the external equipment.
- After storing, you can watch images from the equipment by selecting the programme number which you stored the test signal.

TV and Video Recorder (VCR)

- Connect the Video Recorder to the ANT (antenna input) socket of the TV with the aerial cable.
- Connect the Video Recorder to the **EXT.1** or **EXT.2** terminal with the SCART cable, or connect it to the **Front AV (EXT-3)** terminal with the audio and video cables.
- When you watch a picture from your VCR and the picture is unstable, you may improve it by changing the "**Mode**" setting in the "**TUNING**" menu. (See the "**Tuning Menu**" on **page 24**.)

NTSC Playback

Connect a NTSC video recorder to a terminal. Then press "**AV**" button to select the corresponding AV mode.

NTSC 3.58/4.43 system is detected automatically in AV mode.

Copy Facility

You can output the video and audio signals which inputs from **TV, EXT.1 (EXT-1)** or **Front AV (EXT-3)** terminal to the video recorder connected to the **EXT.2 (EXT-2)** terminal.

- To select the output source, see "**Setting External Source Output**" on **page 27**.

Connecting Headphones

Use the stereo headphone socket of your TV, to connect headphones. As soon as you connect your headphone to the headphone socket, TV's loudspeakers will automatically mute.

Connect the External Equipments

Before connecting anything

- Switch off all equipments including the TV.
- Read the manuals provided with the equipments.

To select an AV mode

Pressing "AV" button on the remote control selects one of AV modes (EXT-1, EXT-2, EXT-2 S and EXT-3).

- To return to the TV mode, repeatedly press "AV" button.

EXT.1 (EXT-1) terminal: Euroconnector (21-pin, SCART)

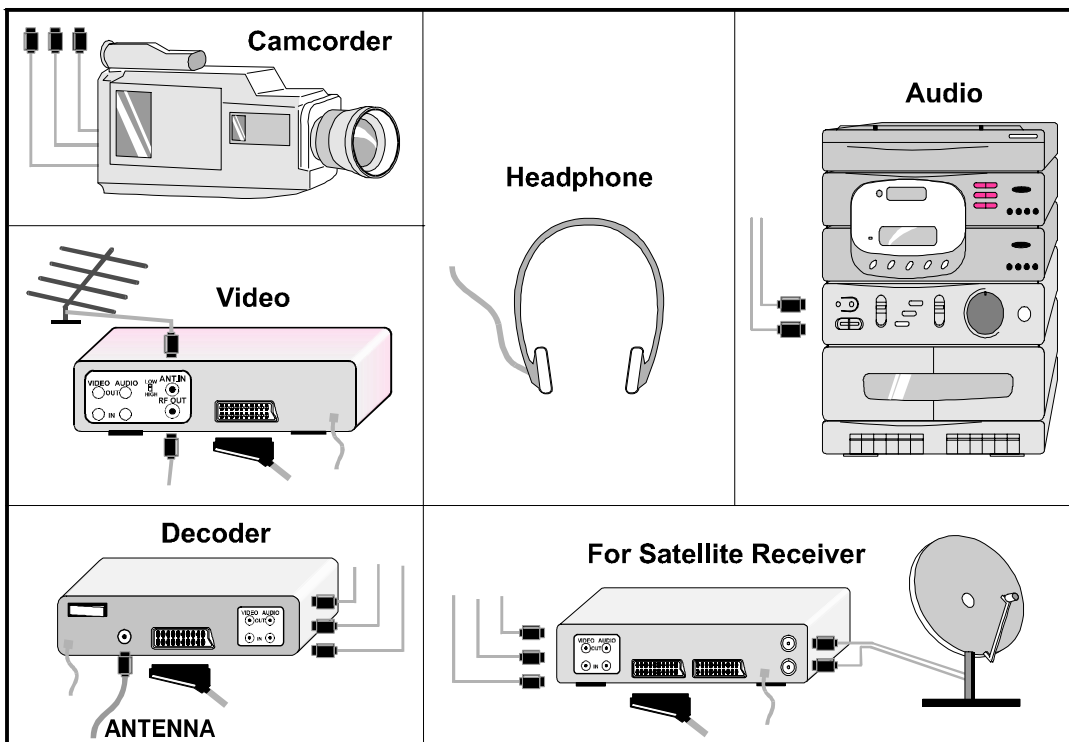
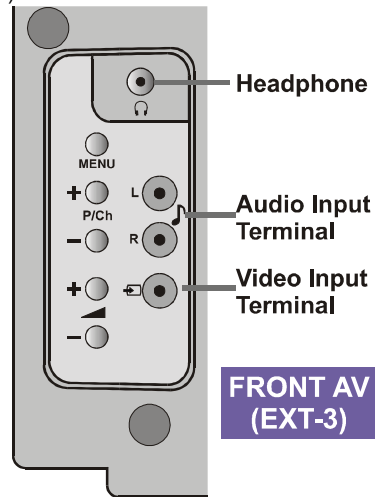
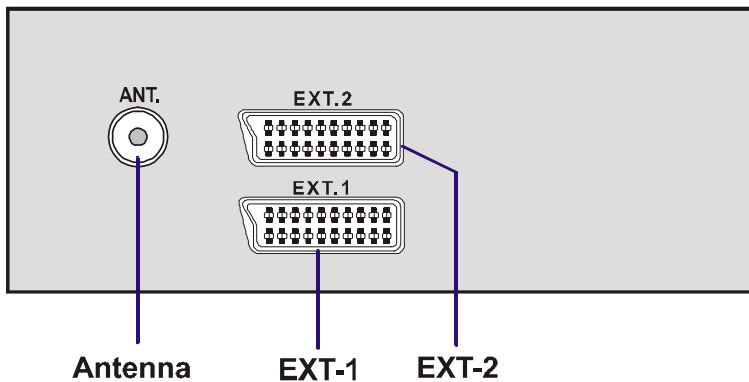
- Video input, Audio L/R inputs and RGB inputs are available.
- TV broadcast outputs (Video and Audio L/R) are available.

EXT.2 (EXT-2) terminal: Euroconnector (21-pin, SCART)

- Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.
- Video and Audio L/R outputs are available. (see "Setting External Source Output" on page 27.)
- T-V LINK functions are available. (see "T-V LINK compatible VCR" on page 30.)

Front AV (EXT-3) terminal: RCA connectors x 3

- Video input and Audio L/R inputs are available.



Tips

Care of the Screen

Clean the screen with a slightly damp, soft cloth. Do not use abrasive solvents as they may damage the TV screen coating layer.

Poor Picture

Have you selected the correct TV system? Is your TV set or house aerial located too close to the loudspeakers, non-earthed audio equipment or neon lights, etc. ?

Mountains or high buildings can cause double pictures or ghost images. Sometimes you can improve the picture quality by changing the direction of the aerial.

The picture quality may degrade when two peripherals are connected to the TV at the same time. In such a case, disconnect one of the peripherals.

No Picture

Is the aerial connected properly? Are the plugs connected tightly to the aerial socket? Is the aerial cable damaged? Are suitable plugs used to connect the aerial? If you are in doubt, consult your dealer.

No Picture means that your TV is not receiving any transmission. Have you pressed the correct buttons on the remote control? Try once more.

Sound

Sound is coming from only one of the speakers. Is the balance set to one direction extreme? See **SOUND** menu.

Remote Control

Your TV no longer responds to the remote control. Press the "**PICTURE**" button on the remote control once more. Perhaps the batteries are exhausted. If so you can still use the local buttons at the front of your TV.

Have you selected the wrong menu? Press "**PICTURE**" button to return to TV mode or press "**MENU**" button to return to the previous menu.

No solution

Switch your TV set off and on. If this does not work, call the service personnel; never attempt to repair it yourself.

Specifications

TV BROADCASTING

PAL SECAM B/G D/K L/L'

RECEIVING CHANNELS

VHF (BAND I/III)

UHF (BAND U)

HYPERBAND

CABLE-TV (B/G: S01-S41 / S75-S79

D/K: S01-S19, S22-S41

L: S01-S41 / S75-S77)

NUMBER OF PRESET CHANNELS

200

CHANNEL INDICATOR

On Screen Display

RF AERIAL INPUT

75 Ohm (unbalanced)

OPERATING VOLTAGE

220-240V AC, 50 Hz.

SOUND-MULTIPLEX SYSTEMS

Nicam + German Stereo

PICTURE TUBE

28" 4:3

AUDIO OUTPUT POWER (W_{RMS}) (%10 THD)

2 x 10

POWER CONSUMPTION (W) (max)

150 Watt

DIMENSIONS (WxHxD) (mm)

DIMENSIONS			
W	H	D	Weight (Kg)
760	570	473	33