

# JVC



ENGLISH  
DEUTSCH  
FRANÇAIS  
NEDERLANDS  
CASTELLANO  
ITALIANO  
PORTUGUÊS

**D.I.S.T.**  
Digital Image Scaling Technology

InteriArt

**HV-36P38SUE**

**HV-32P37SUE**

**HV-28P37SUE**

*Natural Vision*

**T-V LINK**

**COLOUR TELEVISION**

**INSTRUCTIONS**

**FARBFERNSEHGERÄT**

**BEDIENUNGSANLEITUNG**

**TELEVISEUR COULEUR**

**MANUEL D'INSTRUCTIONS**

**KLEURENTELEVISIE**

**GEBRUIKSAANWIJZING**

**TELEVISOR A COLOR**

**MANUAL DE INSTRUCCIONES**

**TELEVISORE A COLORI**

**ISTRUZIONI**

**TELEVISOR A CORES**

**INSTRUÇÕES**





Thank you for buying this JVC colour television.

To make sure you understand how to use your new TV, please read this manual thoroughly before you begin.

## WARNING:

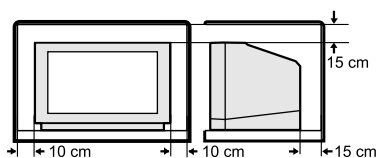
**TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

## CAUTION:

- Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.
- Avoid damaging the AC plug and power cord.
- When you are not using this unit for a long period of time, it is recommended that you disconnect the power cord from the main outlet.
- The main power button on the TV does not fully isolate the TV from the AC supply. If you are not going to use this TV for a long period of time, be sure to disconnect the AC plug from the AC socket.

Avoid improper installation and never position the unit where good ventilation is unattainable.

When installing this television, distance recommendations must be maintained between the floor and wall, as well as installation in a tightly enclosed area or piece of furniture. Adhere to the minimum distance guidelines shown for safe operation.



**Failure to heed the following precautions may result in damage to the TV or remote control.**

### **DO NOT block the TV's ventilation openings or holes.**

(If the ventilation openings or holes are blocked by a newspaper or cloth, etc., the heat may not be able to get out.)

### **DO NOT place anything on top of the TV.**

(such as cosmetics or medicines, flower vases, potted plants, cups, etc.)

### **DO NOT allow objects or liquid into the cabinet openings.**

(If water or liquid is allowed to enter this equipment, fire or electric shock may be caused.)

### **DO NOT place any naked flame sources, such as lighted candles, on the TV.**

The surface of the TV screen is easily damaged. Be very careful with it when handling the TV. Should the TV screen become soiled, wipe it with a soft dry cloth. Never rub it forcefully. Never use any cleaner or detergent on it.

In the event of a fault, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

## **D.I.S.T. demonstration**

To start the D.I.S.T. demonstration:

Press the **MENU** button to display the menu bar. Then press the yellow button.

A picture split in two (D.I.S.T. turned on and D.I.S.T. turned off) will appear on the screen.

To quit the D.I.S.T. demonstration:

Press the yellow button, **TV** button, **P**  $\vee/\wedge$  buttons or any of the number buttons.

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# Setting up your TV

## Caution

- Turn off all the equipment including the TV before connecting anything.

## Connecting the aerial and VCR

- The connecting cables are not provided.
- For further details, refer to the manuals provided with the devices to be connected.

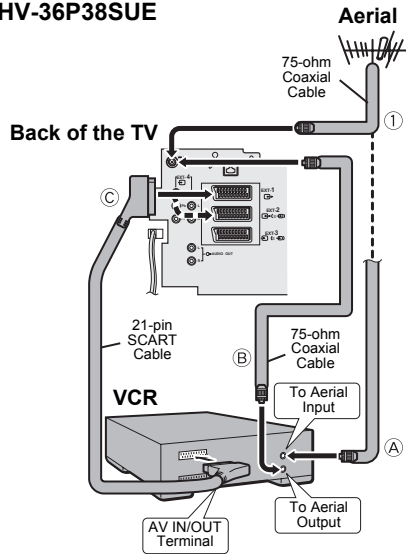
■ If connecting a VCR, follow ① → ② → ③.

■ If not connecting a VCR, follow ①.

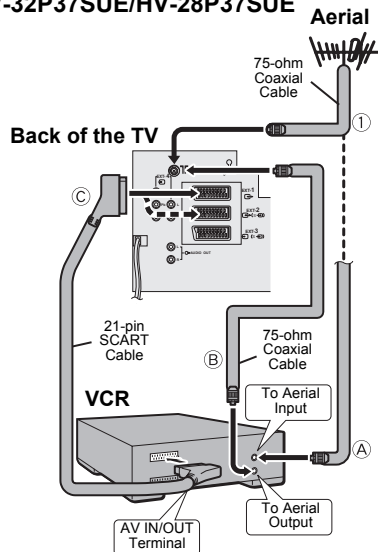
To operate T-V LINK functions, a T-V LINK compatible VCR must be connected to the EXT-2 terminal on the TV. For details about T-V LINK functions, see “T-V LINK FUNCTIONS” on page 9.

- A video can be viewed from the VCR without performing ③. For details, refer to your VCR instruction manual.
- To connect additional external devices, please see “Connecting the external devices” on page 40.
- To connect additional audio equipments, see “Connecting Speakers/Amplifier” on page 42.
- When a decoder is connected to a T-V LINK compatible VCR, set the DECODER (EXT-2) function to ON. For details, see “DECODER (EXT-2)” on page 36. Otherwise, you will not be able to view scrambled channels.

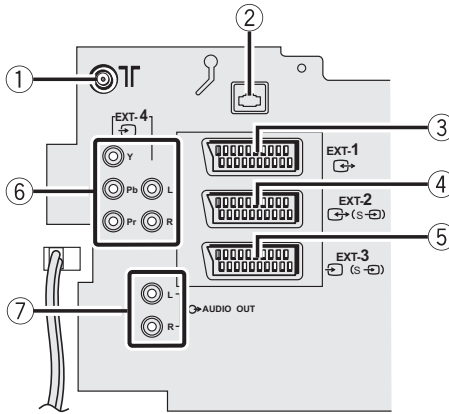
HV-36P38SUE



HV-32P37SUE/HV-28P37SUE

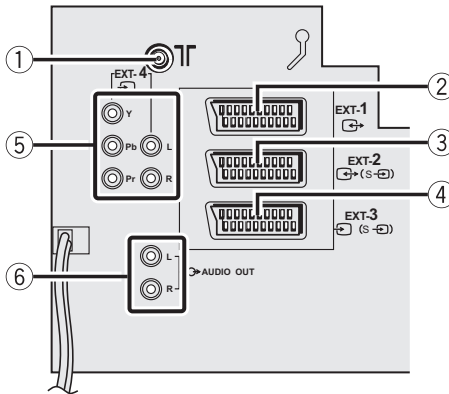


■ Rear Panel  
HV-36P38SUE



- ① Aerial socket (page 3)
- ② Woofer terminal (pages 5)
- ③ EXT-1 terminal (pages 3, 37, 40)
- ④ EXT-2 terminal (pages 3, 9, 37, 40)
- ⑤ EXT-3 terminal (pages 37, 40)
- ⑥ EXT-4 terminal (pages 37, 40)
- ⑦ AUDIO OUT terminal (page 42)

**HV-32P37SUE/HV-28P37SUE**

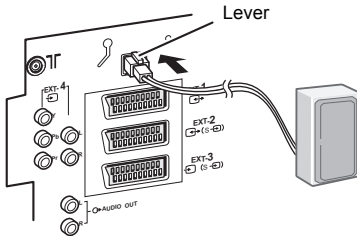


- ① Aerial socket (page 3)
- ② EXT-1 terminal (pages 3, 37, 40)
- ③ EXT-2 terminal (pages 3, 9, 37, 40)
- ④ EXT-3 terminal (pages 37, 40)
- ⑤ EXT-4 terminal (pages 37, 40)
- ⑥ AUDIO OUT terminal (page 42)

## Connecting and placing the woofer unit (HV-36P38SUE only)

Connect the supplied woofer connector to the woofer terminal on the back of the TV.  
If the woofer unit is not connected, you will not be able to enjoy the bass sound.

- Connect so that the lever is raised.



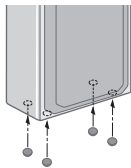
- When disconnecting the woofer connector, do so while pushing the lever.

### ■ Placing the woofer unit

As shown in the diagram, affix the supplied stoppers to the four corners of the side of the woofer unit that will be used as the base.

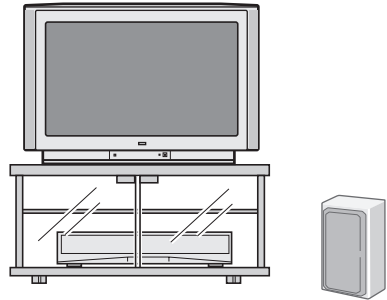
The woofer unit can be used either standing up or lying down.

There is no difference between the top and bottom of the woofer unit irrespective of whether it is being used standing up or lying down.



### Place the woofer unit within the range of the connection cable.

It is recommended that the woofer unit be placed with the speaker facing forwards.



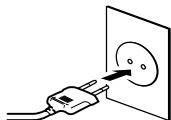
### Pay attention to the following in order to prevent unnatural colours from appearing in the corner of the screen.

- Place the woofer unit at least 20 cm away from either side of the TV.
- Do not place the woofer unit on top of the TV.
- When the TV is used on a TV stand or table, do not place the woofer unit underneath the TV.

## Connecting the power cord to the AC outlet

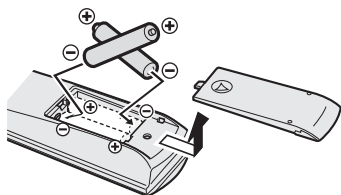
### Caution

- Operate only from the power source specified (AC 220 – 240 V, 50 Hz) on the unit.



## Putting the batteries into the Remote control

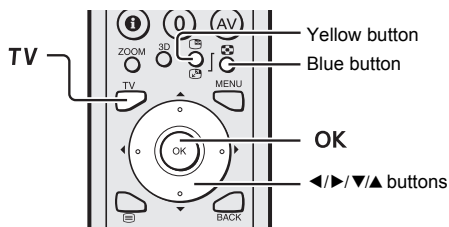
Use two AA/R6 dry cell batteries. Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.



- Follow the warnings printed on the batteries.
- Battery life is about six months to one year, depending on your frequency of use.
- The batteries we supply are only for setting up and testing your TV, please replace them as soon as necessary.
- If the remote control does not work properly, replace the batteries.

## Initial settings

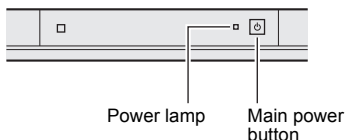
When the TV is first turned on, it enters the initial setting mode, and the JVC logo is displayed. Follow the instructions on the on-screen display to make the initial settings.



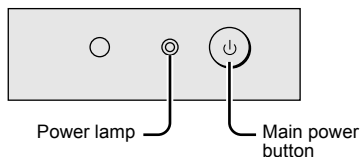
### 1 Press the Main power button on the TV


The Power lamp lights red (for power on), then green (for TV on) and the JVC logo is displayed.

#### HV-36P38SUE



#### HV-32P37SUE/HV-28P37SUE



- If the power lamp stays red and does not change to green:  
Your TV is in the standby mode. To turn the TV on, set the VCR/TV/DVD switch on the remote control to the TV position and press the  button. (See page 13.)

- The JVC logo appears only once when your TV has been turned on. In this case, use the “LANGUAGE” and “AUTO PROGRAM” functions to make the initial settings. For details, see “SET UP menu” on page 32.

## 2 Press the OK button

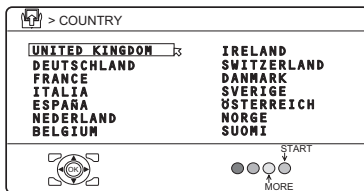
The LANGUAGE menu appears.



D0002(E)-EN

## 3 Press the ◀/▶ and ▼/▲ buttons to choose ENGLISH. Then press the OK button

English is set for the on-screen display description. The COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function. There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY menu as follows:

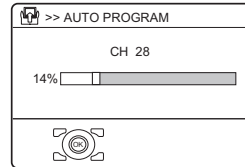


D0003-EN

## 4 Press the ◀/▶ and ▼/▲ buttons to choose the country where you are now located

## 5 Press the blue button to start the AUTO PROGRAM function

The AUTO PROGRAM menu appears and received TV channels are automatically registered in the Programme numbers (PR).

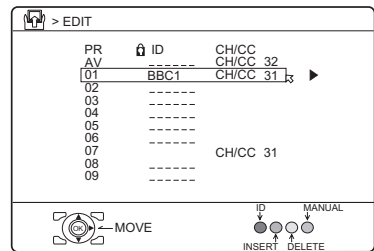


D0004-EN

- Perform the “ACI function” operation (see page 8) when “ACI START/ACI SKIP” is displayed.
- To cancel the AUTO PROGRAM function:  
Press the TV button.



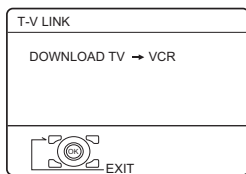
**After the TV channels have been registered in the Programme numbers (PR), the EDIT menu appears**



D0009-EN

- You can proceed to edit the Programme numbers (PR) using the EDIT/MANUAL function. For details, see “EDIT/MANUAL” on page 32.
- If you do not need to use the EDIT/MANUAL function, go to the next step.

**6 Press the OK button to display the T-V LINK menu**



**If you do not have a T-V LINK compatible VCR connected:**

Press the **TV** button to exit the T-V LINK menu.

The T-V LINK menu disappears.

**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 9 to transmit the Programme number (PR) data.

**Now, the initial settings are complete, and you can watch the TV**

- When your TV can detect the TV channel name from the TV channel broadcast signal, it automatically registers the TV channel name (ID) to the Programme number (PR) in which the TV channel has been registered.
- If a TV channel you want to view is not set to a Programme number (PR), manually set it using the MANUAL function. For details, see “EDIT/MANUAL” on page 32.
- The TV channel is not registered in Programme number PR 0 (AV). When you want to register a TV channel to PR 0 (AV), manually set it using the MANUAL function. For details, see “EDIT/MANUAL” on page 32.

**■ ACI function**

This TV has an ACI function which decodes the ACI (Automatic Channel Installation) data.

Using the ACI function allows all TV channels transmitted from the cable TV station to be properly registered quickly according to the data from the cable TV station.

**If “ACI START/ACI SKIP” appears in the AUTO PROGRAM menu:**

You can use the ACI (Automatic Channel Installation) function to decode the ACI data and complete the registration of all the TV channels in a short period of time.

**Press the ▼/▲ buttons to choose ACI START. Then press the OK button to start the ACI function**

Depending on your cable TV station, there may be a broadcast selection menu set up by the cable TV station.

Follow the menu indications and use the ◀/▶ and ▼/▲ buttons to operate the menu.

After you have made the setting, press the **OK** button.

- If you have any questions about the items in the Broadcast Selection menu or how to operate the menu, please contact your cable TV station.
- If you don’t want to use the ACI function, press the ▼/▲ buttons to choose ACI SKIP and then press **OK**.
- When the cable TV broadcast reception is poor, the ACI function will not work properly.
- If there is an error in the ACI data itself, the TV channel cannot be registered properly. If this happens, turn the ACI function off (ACI SKIP) and use the AUTO PROGRAM function. Alternatively, use the EDIT/MANUAL function to correct the Programme number (PR) setting.

### If “ACI ERROR” is displayed in the AUTO PROGRAM menu:

“ACI ERROR” denotes that the ACI function is not working properly. Press the ◀ button to start the ACI function again.

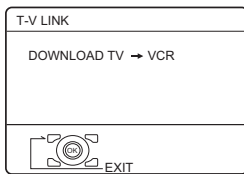
If “ACI ERROR” still appears even after you have tried to start the ACI function several times, press the ▶ button to start the AUTO PROGRAM function. It does not cause any problem because all the TV channels are registered to the Programme numbers (PR) by the AUTO PROGRAM function.

### ■ Downloading the data to VCR

You can transmit to the latest Programme numbers (PR) data to the VCR with the T-V LINK function.

#### Caution

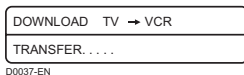
- Only when the T-V LINK compatible VCR is connected to the EXT-2 terminal, this operation is enabled.
- Only when the T-V LINK menu is being displayed, this operation is enabled.



## 1 Turn on the VCR

### 2 Press the OK button

The data transmission begins.



The T-V LINK menu disappears once the data transmission ends.

#### When the T-V LINK menu is changed over to another menu:

The TV has finished its menu. This new menu is operated from the VCR. See the VCR instruction manual for what to do next.

### If “FEATURE NOT AVAILABLE” appears at the T-V LINK menu:

Check the following three items. Then press the ◀ button to retry data transmission.

- Has the T-V LINK compatible VCR been connected to the EXT-2 terminal?
- Has the VCR power been turned on?
- Does the SCART cable that is connected to the EXT-2 terminal to T-V LINK compatible VCR have all proper connections?

## T-V LINK FUNCTIONS

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 is necessary. The VCR must be connected to the EXT-2 terminal on the TV by a fully wired SCART cable.

A “T-V LINK compatible VCR” means a JVC VCR with the T-V LINK logo or a VCR with one of the following logos. However, these VCRs may support some or all of the features described below. For details, refer to your VCR instruction manual.

“Q-LINK” (a trademark of Panasonic Corporation)

“Data Logic” (a trademark of Metz Corporation)

“Easy Link” (a trademark of Phillips Corporation)

“Megalogic” (a trademark of Grundig Corporation)

“SMARTLINK” (a trademark of Sony Corporation)

### ■ Pre-set Download

Download the registered data on the TV channels from the TV to the VCR.

The Preset Download function automatically begins when the initial setting is complete or whenever the AUTO PROGRAM or EDIT/MANUAL operations are performed.

- This function can be operated via VCR operation.

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

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

- 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 record to VCR the images that you are currently viewing on TV by a simple operation. For details, read the manual for your VCR. Operate via the VCR. “VCR IS RECORDING” is displayed.

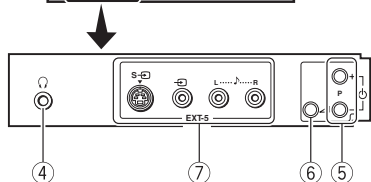
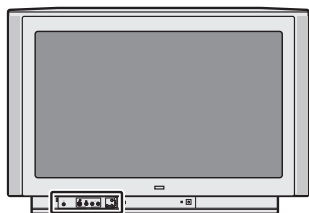
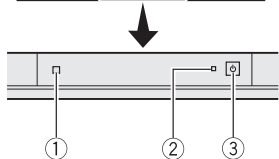
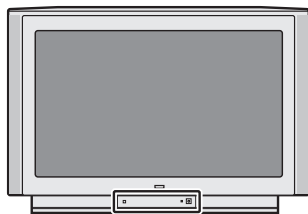
**In the following conditions, the VCR will stop recording if the TV is turned off, if the TV channel or input is switched, or if the menu is displayed on the TV:**

- When recording images from an external device connected to the TV.
- 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 that TV channel cannot be properly received on the VCR’s tuner.
- When the VCR is not ready (for example, when there is no tape inserted), “NO RECORDING” is displayed.
- Operation via the TV is not possible.

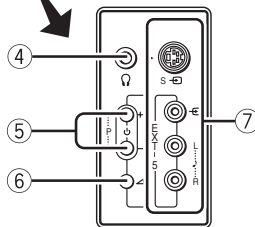
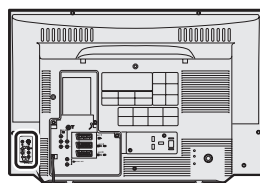
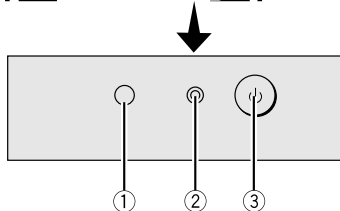
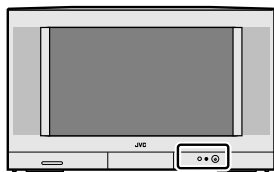
- Generally, the VCR cannot record a TV channel that cannot be received properly by the VCR’s tuner, even though you can view that TV channel on the TV. However, some VCRs can record a TV channel by using the TV’s output if that channel can be viewed on the TV, even though the TV channel cannot be received properly by the VCR’s tuner. For details, refer to your VCR instruction manual.

# TV buttons and functions


## HV-36P38SUE




## HV-32P37SUE/HV-28P37SUE



Refer to the pages in parentheses for details.

- ① Remote control sensor
- ② Power lamp (pages 6, 12)
- ③ Main power button (pages 6, 12)
- ④ Headphone jack (mini jack) (page 40)
- ⑤ P V/∧ buttons/ -/+ buttons (page 12)
- ⑥  (Volume) button (page 12)
- ⑦ EXT-5 terminal (pages 37, 40)

Refer to the pages in parentheses for details.

- ① Remote control sensor
- ② Power lamp (pages 6, 12)
- ③ Main power button (pages 6, 12)
- ④ Headphone jack (mini jack) (page 40)
- ⑤ P V/∧ buttons/ -/+ buttons (page 12)
- ⑥  (Volume) button (page 12)
- ⑦ EXT-5 terminal (pages 37, 40)

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## Turn the Main power on

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### **Press the Main power button on the TV.**

The Power lamp lights red and your TV is in the standby mode.

- If the Power lamp lights green, the TV is already on.

### **To turn the Main power off:**

Press the Main power button again.  
The Power lamp goes off.

## **Caution**

- The main power button on the TV does not fully isolate the TV from the AC supply. If you are not going to use this TV for a long period of time, be sure to disconnect the AC plug from the AC socket.

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## Turn the TV on from standby mode

---

**Press the P  $\vee/\wedge$  buttons to turn the TV on from standby mode**

---

## Choose a TV channel

---

**Press the P  $\vee/\wedge$  buttons to choose a programme number (PR) or an EXT terminal**

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## Adjust the volume

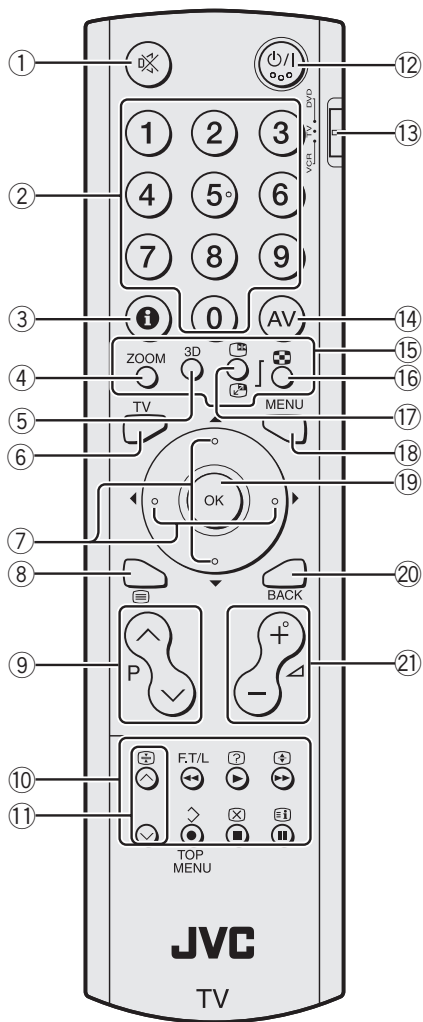
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### **1 Press the $\triangleleft$ (Volume) button**

The volume level indicator appears.

### **2 Press the $-/+$ buttons while the volume level indicator is displayed**

# Remote control buttons and functions



- ① Muting button
- ② Number buttons
- ③ Information button
- ④ **ZOOM** button
- ⑤ **3D** sound button
- ⑥ **TV** button
- ⑦ ◀/▶/▼/▲ buttons
- ⑧ [List] (Text) button
- ⑨ **P** ∨/∧ buttons
- ⑩ VCR/DVD/Teletext control buttons
- ⑪ ∨/∧ buttons
- ⑫ ⏻/⏼ (Standby) button
- ⑬ VCR/TV/DVD switch
- ⑭ **AV** button
- ⑮ Colour button
- ⑯ [Color Wheel] (Multi) button
- ⑰ [Two Screens] (Freeze/Swap) button
- ⑱ **MENU** button
- ⑲ **OK** button
- ⑳ **BACK** button
- ㉑ ◀ (Volume) -/+ buttons

## Turn the TV on or off from standby mode

Press the ⏻/⏼ (Standby) button to turn the TV on or off.

When the TV is turned on, the power lamp changes from red to green.

- The power can be turned on by pressing the **TV** button, **P** ∨/∧ buttons or Number buttons.

To turn the TV on or off, set the VCR/TV/DVD switch on the remote control to the TV position and press the ⏻/⏼ button. If the VCR/TV/DVD switch on the remote control is set to a position other than TV, the TV will not be turned on or off even if the ⏻/⏼ button is pressed.

## Choose a TV channel and watch images from external devices

- If the picture is tilted, correct it. See “PICTURE TILT” on page 36.

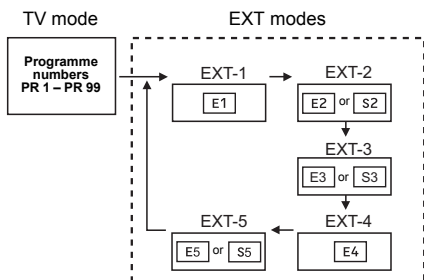
### ■ Use the number buttons: Enter the programme number (PR) of the channel using the number buttons.

Example:

- PR 6 → press **6**
- PR 12 → press **1** and **2**

### ■ Use the **P** $\vee/\wedge$ buttons: Press the **P** $\vee/\wedge$ buttons to choose the programme number (PR) you want or an EXT terminal.

### ■ Use the AV button: Press the AV button to choose an EXT terminal.



- You can choose a video input signal from the S-VIDEO signal (Y/C signal) and regular video signal (composite signal). For details, see “S-IN (S-VIDEO input)” on page 37.
- If you do not have a clear picture or no colour appears, change the colour system manually. See “COLOUR SYSTEM” on page 26.
- If you choose an EXT terminal with no input signal, the EXT terminal number becomes fixed on the screen.

- This TV set has a function which can automatically change over the input according to a special signal output from an external device. (The EXT-4 and EXT-5 terminals do not support this function.)
- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with 625p progressive-scanning component signals. If this occurs, change the output setting of the connected device to 625i interlace-scanning component signal output.

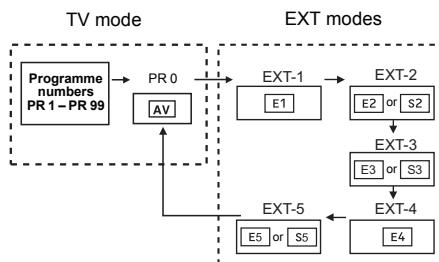
### To return to a TV channel:

Press the **TV** button, the **P**  $\vee/\wedge$  buttons or the Number buttons.

### To use the Programme number PR 0 (AV):



When the TV and VCR are connected only by the Aerial cable, choosing the Programme number PR 0 (AV) allows you to view images from the VCR. Set the VCR RF channel to the Programme number PR 0 (AV) manually. For details, see “EDIT/MANUAL” on page 32.



Pressing the **AV** button changes the choice as follows:




- The VCR RF channel is sent as the RF signal from the VCR.
- Also refer to your VCR instruction manual.


## Adjust the volume

Press the   buttons to adjust the volume.

The Volume indicator appears and the volume changes as you press the   buttons.

### ■ Muting the sound

Press the  (muting) button to turn off the sound.


Pressing the  (muting) button again restores the previous volume level.

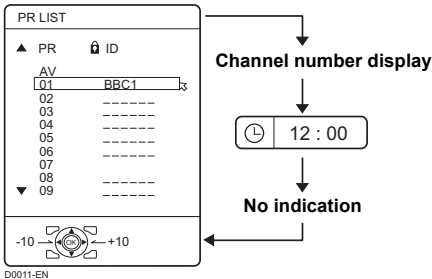
## Information function

You can see the channel number of the programme you are watching, the current time or the PR LIST.

From the PR LIST, you can choose a channel or EXT terminal.

Press the  (Information) button to display the information you want to see.

Pressing the  (Information) button changes the display as follows:



### Channel number display:

The channel number and channel name (when the channel name is registered) of the programme you are watching or the EXT terminal number is displayed.

### Time display:





The current time of the teletext data is displayed.


If the TV has not received a TV channel that has teletext programmes since it was turned on, the time display is blank. To view the current time, choose a TV channel that has teletext programmes. The time will continue to be displayed until the TV is turned off even if you choose other TV channels.

- An incorrect current time is sometimes displayed when watching videos.

### PR LIST:

The programme number (PR) and EXT terminal list is displayed.

Pressing the **OK** button after choosing the programme number (PR) or EXT terminal with the     buttons will display the chosen programme or EXT terminal.

- For programme numbers (PR) for which the CHILD LOCK function is set, the  (CHILD LOCK) mark is displayed. For details see "CHILD LOCK" on page 29.

## ZOOM function

You can change the screen size according to the picture aspect ratio. Choose the optimum one from the following ZOOM modes.

### AUTO:

When a WSS (Wide Screen Signalling) signal, which shows the aspect ratio of the picture, is included in the broadcast signal or the signal from an external device, the TV automatically changes the ZOOM mode to 16:9 ZOOM mode or FULL mode according to the WSS signal.

If a WSS signal is not included, the picture is displayed in accordance with the ZOOM mode set with the 4:3 AUTO ASPECT function.

- For details of the 4:3 AUTO ASPECT function, see “4:3 AUTO ASPECT” on page 27.
- When the AUTO (WSS) mode does not function correctly due to poor WSS signal quality or when you want to change the ZOOM mode, press the **ZOOM** button and change to another ZOOM mode.

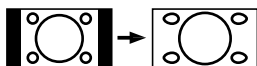
### REGULAR:

Use to view a normal picture (4:3 aspect ratio) as its original size is.



### PANORAMIC:

This mode stretches the left and right sides of a normal picture (4:3 Aspect Ratio) to fill the screen, without making the picture appear unnatural.



- The top and bottom of the picture are slightly cut off.

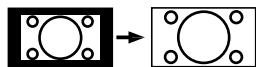
### 14:9 ZOOM:

This mode zooms up the Wide Picture (14:9 Aspect Ratio) to the upper and lower limits of the screen.



### 16:9 ZOOM:

This mode zooms up the Wide Picture (16:9 Aspect Ratio) to the full screen.



### 16:9 ZOOM SUBTITLE:

This mode zooms up the Wide Picture (16:9 Aspect Ratio) with subtitles to the full screen.



### FULL:

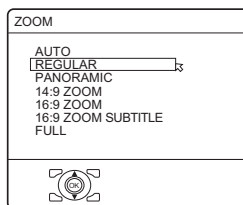
This mode uniformly stretches the left and right sides of a normal picture (4:3 aspect ratio) to fill the wide TV screen.



Use for pictures with a 16:9 aspect ratio that have been squeezed into a normal picture (4:3 aspect ratio), you can restore their original dimensions.

## ■ Choose the ZOOM mode

### 1 Press the **ZOOM** button to display the ZOOM menu



D0009-EN

- The **ZOOM** button does not work in the twin pictures mode.

## 2 Press the ▼/▲ buttons to choose a ZOOM mode. Then press the OK button

The picture expands and the chosen ZOOM mode is displayed in about 5 seconds.

- The ZOOM mode may be automatically changed due to the control signal from an external device. When you want to return to the previous ZOOM mode, choose the ZOOM mode again.

## ■ Adjusting the visible area of the picture

If subtitles or the top (or bottom) of the picture are cut off, adjust the visible area of the picture manually.

### 1 Press the ZOOM button

The ZOOM menu appears.

### 2 Press the OK button to display the ZOOM mode indication

Indicator is displayed.



D0010-EN

### 3 While it is displayed, press the ▼/▲ buttons to adjust the visible area vertically

- You cannot adjust the visible area in REGULAR or FULL mode.

## 3D CINEMA SOUND function

You can enjoy sounds with a wider ambience.

- This function does not work for the sound from the headphones.

### Press the 3D button and choose "ON", "MONO" or "OFF".

#### ON:

Choose to add the 3D CINEMA SOUND effect to stereo sound.

#### MONO:

Choose to add the 3D CINEMA SOUND effect to monaural sound.

#### OFF:

Choose to cancel the 3D CINEMA SOUND effect.

- The 3D CINEMA SOUND effect can be adjusted with the "3D CINEMA SOUND" menu (see page 28).

## Return to TV channel instantly

You can return to a TV channel instantly.

### Press the TV button

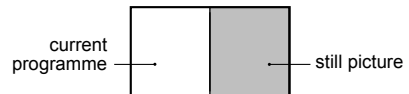
The TV returns to the TV mode and a TV channel appears.

## Using the FREEZE function

You can view the current programme as a still picture.

### 1 Press the [Freeze] button

The still picture of the current picture will appear.



D0056-EN

**To cancel the FREEZE function:**

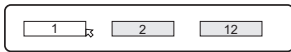
Press the button, the **P**  $\nabla/\wedge$  buttons or the number buttons.

- The FREEZE function does not work while a sub-picture is displayed.
- The still picture cannot be output from the TV.
- The FREEZE function does not work for pictures of 625p, 525p and 1125i signals.

**Using the MULTI-PICTURE function**

**1 Press the button**

The MULTI-PICTURE menu appears.



D0101-EN

**2 Press the  $\leftarrow/\rightarrow$  buttons to choose the number of screens and then press the OK button**



Choose to return to one screen.

D0102



Choose to change to 2-pictures multi.

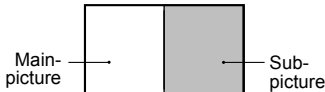
D0103



Choose to change to 12-pictures multi.

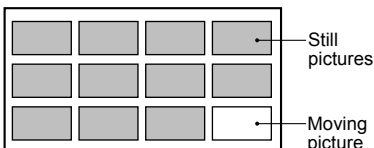
D0104

**2-pictures multi:**



D0056-EN

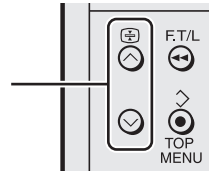
**12-pictures multi:**









D0058-EN

- When set to 2-pictures multi, you can view a TV picture and a picture from an external device. You can not view a TV picture on more than one screen at the same time.
- When 12-pictures multi is set, pictures from external devices are not displayed.
- When set to 2-pictures multi, the main-picture can be changed by pressing the **P**  $\nabla/\wedge$  buttons. The sub-picture screen can be changed by pressing the  $\nabla/\wedge$  buttons.  
When set to 12-pictures multi and there are more than 12 pictures, the next or previous 12 screens can be displayed by pressing the  $\nabla/\wedge$  buttons.



Changing the sub-picture  
Displaying the next or  
previous 12 screens



- When set to 2-pictures multi, press the (swap) button to switch the main-picture and sub-picture.
- 2-pictures multi function does not work for a picture of 1125i signal.
- A picture of 625p or 525p signal cannot be displayed as the sub-picture. Pay attention to the following.
  - When the EXT-4 picture is a picture of 625p or 525p signal, you cannot choose EXT-4 with the  $\nabla/\wedge$  buttons.
  - When the EXT-4 picture signal is changed to 625p, 525p or 1125i signal while the EXT-4 picture is displayed as the sub-picture, the 2-pictures multi function is cancelled.

- The pictures cannot be swapped when a picture of 625p or 525p signal from EXT-4 is being displayed as the main picture.
- Do not press the  (swap) button while you are recording the TV output on the VCR. If you do, the TV output signal will change.
- You cannot view a scrambled channel in the sub-picture. If the  (swap) button is pressed when viewing a scrambled channel in the main-picture using an external decoder, the channel you have been viewing in the sub-picture will appear in both the main-picture and sub-picture.
- When set to 2-pictures multi and the headphones are connected, the sound for the main-picture is output from the TV speakers and the sound from the sub-picture is output from the headphones.
  - Adjust the volume of the sub-picture sound from the headphones with “HEADPHONE VOLUME” in the “SOUND” menu (see page 28).
  - The main-picture sound can not be heard through the headphones.
- When set to 12-pictures multi, press the / / /  buttons to choose the screen you want to view and the press the **OK** button to display that picture on the whole screen.
- The BLUE BACK function does not work when the MULTI-PICTURE function is being used.
- The ZOOM function does not work when the MULTI-PICTURE function is being used.

### To return the multi-picture to one screen:

Press the **MULTI** button, press the /  buttons to choose one screen, and then press the **OK** button.

- Pressing the **TV** button will also return the display to one screen.


## Operating a JVC brand VCR or DVD player

You can 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/TV/DVD Switch to the VCR or DVD position

#### VCR:

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







- You can turn the VCR on or off with the /I (Standby) button.

#### DVD:

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

- You can turn the DVD player on or off with the /I (Standby) button.

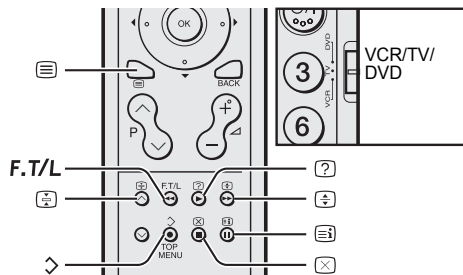
### 2 Press the VCR/DVD Control Button to control your VCR or DVD player

- 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. The VCR will receive or choose the chapter the DVD player plays back.
- Some DVD player models use the /  buttons for both operating of Fast forward/backward functions and choosing the chapter. In this case, the /  buttons do not work.

You cannot turn the TV on or off when the VCR/TV/DVD switch is set to the VCR or DVD position.

When you turn the TV on or off, set the VCR/TV/DVD switch to the TV position.

# Teletext function



## 4 Choose a teletext page by pressing the P V/∧ buttons, Number buttons or Colour buttons

### To return to the TV mode:

Press the **TV** button or (Text) button.

- If you have trouble receiving teletext broadcasts, consult your local dealer or the teletext station.
- The ZOOM function will not operate in the TV and text mode or Text mode.
- No menu operations are possible when viewing a teletext programme.
- Language display depends on the country which was set on the COUNTRY menu. If characters on a Teletext programme do not appear properly, change the COUNTRY setting to other country's. To change the COUNTRY setting, perform steps 1 and 2 of the "AUTO PROGRAM" procedure on page 32 and then press the **OK** button.

## Basic operation

You can view three types of teletext broadcasts on the TV:  
FLOF (Fastext), TOP and WST.

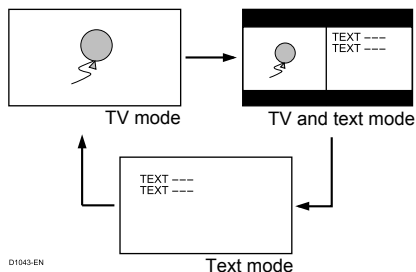
### 1 Choose a TV channel with a teletext broadcast

### 2 Set the VCR/TV/DVD switch to the TV position



### 3 Press (Text) button to display the teletext

Pressing (Text) button changes the mode as follows:



01043-EN

## Using the List Mode

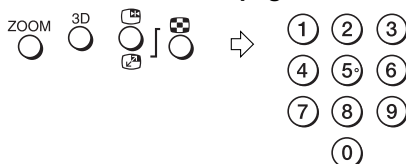
You can store the numbers of your favourite teletext pages in memory and call them up quickly using the colour buttons.

### ■ To store the page numbers:

#### 1 Press **F.T./L** button to engage the List mode

The stored page numbers are displayed at the bottom of the screen.

#### 2 Press a Colour button to choose a position. Then press the Number buttons to enter the page number



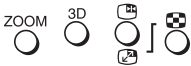
### 3 Press and hold down ↵ (Store) button

The four page numbers blink white to indicate that they are stored in memory.

## ■ To call up a stored page:

### 1 Press the **F.T/L** button to engage the List mode

### 2 Press a colour button to which a page has been assigned



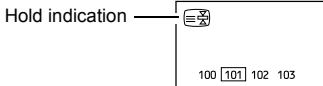
#### To exit the List mode:

Press the **F.T/L** button again.

## Hold

You can hold a teletext page on the screen for as long as you want, even while several other teletext pages are being received.

### Press the **⏸** (Hold) button



#### To cancel the Hold function:

Press **⏸** (Hold) button again.

## Sub-page

Some teletext pages include sub-pages that are automatically displayed.

### 1 Choose a teletext page that includes sub-pages

Sub-page numbers that can be viewed are automatically displayed at the top of the screen.

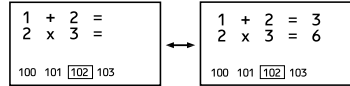
### 2 Press the **◀/▶** buttons to choose a sub-page number

## Reveal

Some teletext pages include hidden text (such as answers to a quiz).

You can display the hidden text.

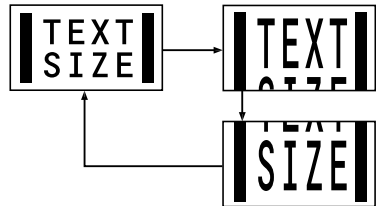
### Each time you press the **?** (Reveal) button, text is hidden or revealed



## Size

You can double the height of the teletext display.

### Press the **⏏** (Size) button



## Index

You can return to the index page instantly.

### Press **⏮** (Index) button

Returns to page 100 or a previously specified page.

---

## Cancel

---

You can search for a teletext page while watching TV.

---

### 1 Press the **Number** button to enter a page number, or press a **Colour** button

The TV searches for a teletext page.

---

### 2 Press **⊗ (Cancel)** button

The TV programme appears. When the TV finds the teletext page, its page number appears in the upper left of the screen.

---

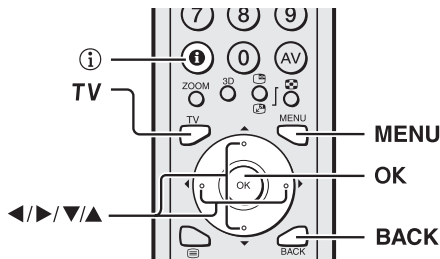
### 3 Press **⊗ (Cancel)** button to return to a teletext page when the page number is on the screen

- The TV mode cannot be resumed even by pressing the **⊗ (Cancel)** button. A TV programme is temporarily displayed instead of the teletext programme.

# Using the TV's menu

This TV has a number of functions which you can operate using menus. To fully utilize your TV's functions, you need to fully understand the basic menu operating techniques.

## Buttons used to operate the menus



## Types of menu



### PICTURE menu

Choose to set the screen settings.



### SOUND menu

Choose to set the sound settings.



### FEATURES menu

Choose to set the sleep timer and child lock settings.

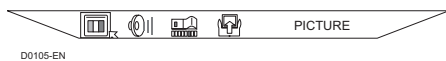


### SET UP menu

Choose to edit the channels or set the display language settings.

## Basic operation

**1 Press the MENU button to display the menu bar**



**2 Press the </> buttons to choose the menu you want to use and then press the OK button**



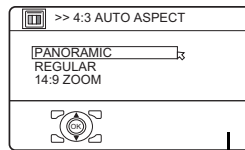
**3 Press the </> buttons to choose the item to be set, press the </> buttons to set the item, and then press the OK button**

If there are sub-menus, use the </> buttons to operate them.

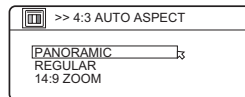
- Press the **BACK** button to return to the previous menu.
- Press the **TV** or **MENU** button to exit from the menu.

The menu guide area can be made to appear and disappear for some menus.

While the menu is displayed, press the **i** button to change between the guide area being displayed and not displayed.



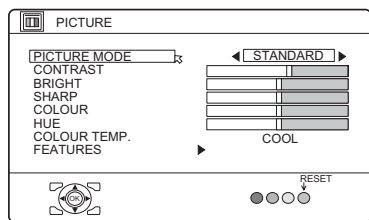
Guide area



- The guide area for some menus will still be displayed even if the **i** button is pressed. This is not a malfunction.

# PICTURE menu

---



D0014-EN

- While the PICTURE menu is displayed, pressing the blue button will set the CONTRAST, BRIGHT, SHARP, COLOUR, HUE settings to their default settings.
- 

## PICTURE MODE

---

You can choose one of three PICTURE MODEs to adjust the picture settings automatically.

### **BRIGHT:**

Heightens contrast and sharpness.

### **STANDARD:**

Standardizes picture adjustment.

### **SOFT:**

Softens contrast and sharpness.

---

## CONTRAST

---

You can adjust the picture contrast.

- ◀ : lower
  - ▶ : higher
- 

## BRIGHT

---

You can adjust the picture brightness.

- ◀ : darker
  - ▶ : brighter
- 

## SHARP

---

You can adjust the picture sharpness.

- ◀ : softer
  - ▶ : sharper
- 

## COLOUR

---

You can adjust the picture colour.

- ◀ : lighter
  - ▶ : deeper
- 

## HUE

---

You can adjust the picture tint.

- ◀ : reddish
  - ▶ : greenish
  - You can change the HUE setting (picture hue) when the colour system is NTSC 3.58, NTSC 4.43.
- 

## COLOUR TEMP.

---

You can select one of three COLOUR TEMP. modes (three tones of white) to adjust the white balance of the picture. Since white is the colour which is used as a reference for all the other colours, changing the COLOUR TEMP. mode affects the appearance of all the other colours on the screen.

### **COOL:**

A bluish white. Using this mode when watching bright pictures allows you to enjoy a more vivid and bright picture.

### **NORMAL:**

The normal white colour.

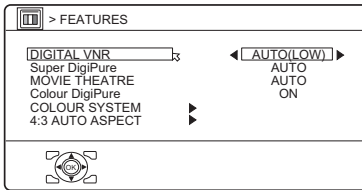
### **WARM:**

A reddish white. Using this mode when watching films allows you to enjoy colours that are characteristic of films.

---

## FEATURES

Choose **FEATURES** and press the **OK** or ► button to display the sub-menu.



D1015-EN

### ■ DIGITAL VNR

The DIGITAL VNR function cuts down the amount of noise in the original picture. You can choose from the four DIGITAL VNR function settings of AUTO(LOW), AUTO(HIGH), MIN and MAX.

#### **AUTO(LOW)/AUTO(HIGH):**

The TV will automatically adjust the level of the DIGITAL VNR effect to match the amount of noise in the picture, giving you the best possible picture.

- If you set the DIGITAL VNR effect too high it can make the picture less sharp. It is recommended to use the AUTO(LOW) setting if you can. If you set the DIGITAL VNR function to AUTO(LOW) but still notice some noise, change the setting from AUTO(LOW) to AUTO(HIGH).

#### **MIN:**

The level of the DIGITAL VNR effect is set to the minimum. If you set the DIGITAL VNR function to AUTO(LOW) but feel that the sharpness of the original picture has not been reproduced fully, change the setting from AUTO(LOW) to MIN.

- The MIN setting is not suitable for low-quality pictures which contain a lot of noise.

#### **MAX:**

The level of the DIGITAL VNR effect is set to the maximum. If you set the DIGITAL VNR function to AUTO(HIGH) but still notice some noise, change the setting from AUTO(HIGH) to MAX.

- The MAX setting is not suitable for high-quality pictures which contain very little noise.

### ■ Super DigiPure

The Super DigiPure function uses the latest in digital technology to give you a natural-looking picture. The Super DigiPure function includes the following two functions.

#### **DigiPure function:**

This function helps to create a natural-looking picture by eliminating unnecessary edges from high-contrast and crisp images. For images with low-contrast, edges are added to produce a sharper, more detailed picture.

You can choose from the three DigiPure function settings of AUTO, MIN and MAX.

- If you set the DigiPure effect too high on a low-quality picture that contains a lot of noise, this may actually make the noise worse. We recommend you use the AUTO setting if you can.

#### **Picture motion compensation function:**

This function displays fast-moving pictures (for example, the players or ball in a football game) more smoothly and naturally on the screen.

- The effect level of the picture motion compensation function cannot be changed. The effect level is the same no matter which of the AUTO, MIN or MAX settings is used.

#### **AUTO:**

The TV will automatically adjust the level of the DigiPure effect to match the amount of noise in the picture, giving the best possible picture.

**MIN:**

The level of DigiPure effect is set to the minimum. When you set the Super DigiPure function to AUTO and notice some noise, change the setting from AUTO to MIN.

- The MIN setting is not suitable for high-quality pictures which contain very little noise.

**MAX:**

The level of DigiPure effect is set to the maximum. If you set the Super DigiPure function to AUTO but feel that the original picture quality has not been reproduced fully, change the setting from AUTO to MAX.

- The MAX setting is not suitable for low-quality pictures which contain a lot of noise.

**OFF:**

The Super DigiPure function is turned off.

■ **MOVIE THEATRE**

The MOVIE THEATRE function displays a cinema film picture more smoothly and naturally on the screen.

**AUTO:**

The television automatically recognizes the type of signal and turns the function on and off.

**ON:**

This function is turned on.

**OFF:**

This function is turned off.

- The motion may appear unnatural when viewing images with the NTSC colour system. When the MOVIE THEATRE function is set to AUTO or ON, the motion may appear unnatural when viewing images with the NTSC colour system.

■ **Colour DigiPure**

Makes the colour outline stand out and increases the sharpness giving a clearer picture.

**ON:**

Colour DigiPure works. Normally use with this function turned on.

**OFF:**

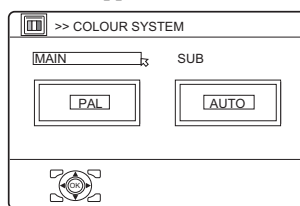
Colour DigiPure doesn't work. This gives a less clear picture than when this function is turned on.

■ **COLOUR SYSTEM**

The colour system is chosen automatically. However, if the picture is not clear or no colour appears, choose the colour system manually.

**1 Choose COLOUR SYSTEM. Then press the OK or ► button**

The sub-menu of the COLOUR SYSTEM function appears.



**2 Press the ◀/▶ buttons to choose MAIN or SUB**

**MAIN:**

You can change the colour system of the main-picture.

**SUB:**

You can change the colour system of the sub-picture.

- Choose MAIN when a sub-picture is not displayed.

**3 Press the ▼/▲ buttons to choose the appropriate colour system. Then press the OK button**

**PAL:**

PAL system

**SECAM:**

SECAM system

**NTSC 3.58:**

NTSC 3.58 MHz system

**NTSC 4.43:**

NTSC 4.43 MHz system

**AUTO:**

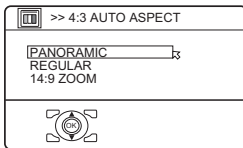
This function detects a colour system from the input signal. You can only use this when you are viewing a picture from programme number PR 0 (AV), or an EXT terminal.

- The AUTO function may not function properly if you have poor signal quality. If the picture is abnormal in the AUTO function, choose another colour system manually.
- When in the Programme numbers PR 0 (AV) to PR 99, you cannot choose NTSC 3.58 or NTSC 4.43.
- “COLOUR SYSTEM” cannot be chosen when you are watching the EXT-4 picture.

## ■ 4:3 AUTO ASPECT

You can choose one of three ZOOM modes, REGULAR, PANORAMIC or 14:9 ZOOM, as the ZOOM mode for the normal picture (4:3 aspect ratio).

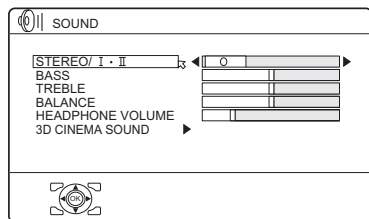
### 1 Choose 4:3 AUTO ASPECT then press the OK button



D0017-EN

### 2 Press the ▼/▲ buttons to choose a ZOOM mode

# SOUND menu



- Functions in the “SOUND” menu other than “HEADPHONE VOLUME” work for the TV speakers. They do not work for the sound from the headphones.
- When the headphones are connected and only one screen is displayed, only “HEADPHONE VOLUME” can be used.

## STEREO / I • II

When you are viewing a bilingual broadcast programme, you can choose the sound from Bilingual I (Sub I) or Bilingual II (Sub II). When the stereo broadcasting is received poorly, you can change from stereo to mono sound so that you can hear the broadcast more clearly and easily.

∞ : Stereo sound

○ : mono sound

I : Bilingual I (sub I)

II : Bilingual II (sub II)

- The sound mode you can choose differs depending on the TV programme.
- This function does not work in the EXT modes.

## BASS

You can adjust the low tone of the sound.

- ◀ : weaker
- ▶ : strong

## TREBLE

You can adjust the high tone of the sound.

- ◀ : weaker
- ▶ : strong

## BALANCE


You can adjust the volume balance between the left and right speaker.

- ◀ : turn the left speaker’s volume level up.
- ▶ : turn the right speaker’s volume level up.

## HEADPHONE VOLUME

Adjust the volume of the sub-picture sound which is heard through the headphones when set to 2-pictures multi.

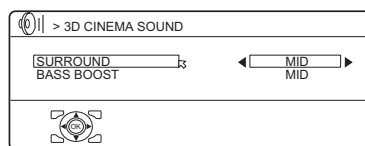
- ◀ : Reduce volume
- ▶ : Increase volume

- When not set to 2-pictures multi, the headphone volume is adjusted with the  (volume) buttons.

## 3D CINEMA SOUND

Press the **3D** button to set the 3D CINEMA SOUND effect when 3D CINEMA SOUND is set to ON or MONO.

**Choose 3D CINEMA SOUND. Then press the OK or ▶ button to display the sub-menu.**



### ■ SURROUND

Adjust the surround effect.

You can choose HIGH, MID or LOW.

Choosing LOW will reduce the surround effect and choosing HIGH will increase the surround effect.

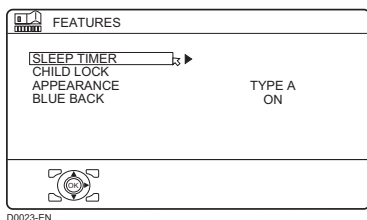
### ■ BASS BOOST

Adjust the bass sound.

You can choose HIGH, MID or LOW.

Choosing LOW will reduce the bass sound and choosing HIGH will increase the bass sound.

# FEATURES menu

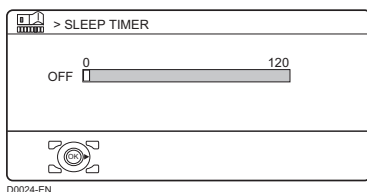


## SLEEP TIMER

You can set the TV to automatically turn off after a specified period of time.

### 1 Choose SLEEP TIMER. Then press the OK or ► button

A Sub-menu of the SLEEP TIMER function appears.



### 2 Press the ◀/▶ buttons to set the period of time. Then press the OK button


You can set the period of time a maximum of 120 minutes (2 hours) in 10 minute increments.

- One minute before the SLEEP TIMER function turns off the TV, “GOOD NIGHT!” appears.
- The SLEEP TIMER function cannot be used to turn off the TV’s main power.
- When the SLEEP TIMER function is on, you can display the Sub-menu of the SLEEP TIMER function again to confirm and/or change the remaining period of time of the SLEEP TIMER function. Press the OK button to exit the menu after confirming and / or changing the remaining time.

### To cancel the SLEEP TIMER function:

Press the ◀ button to set a period of time to “OFF”.

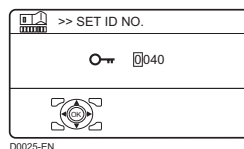
## CHILD LOCK

When there is a TV channel you wish your children not to watch, you can use the CHILD LOCK function to lock out the TV channel. Even when a child chooses a Programme number (PR) in which a locked TV channel has been registered, the screen will change to blue and displays  (CHILD LOCK) so the TV channel cannot be viewed. Unless you enter a pre-set ID number by a special operation, the lock cannot be released and the child cannot view the TV channel programmes.

### ■ To set the CHILD LOCK function

#### 1 Choose CHILD LOCK, then press the 0 button

“SET ID NO.” (ID number setting screen) appears.



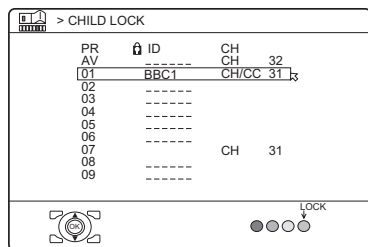
#### 2 Set the ID number to your liking

##### 1 Press the ▼/▲ buttons to choose a number.

##### 2 Press the ◀/▶ buttons to move the cursor.

### 3 Press the **OK** button

The Sub-menu of CHILD LOCK appears.



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### 4 Press the **▼/▲** buttons to choose a TV channel

Every time you press the **▼/▲** buttons, the Programme number (PR) changes, and the picture of the TV channel registered in the Programme number (PR) is displayed on the screen.

### 5 Press the blue button and set the CHILD LOCK function. Then press the **OK** button

**Ⓔ** (CHILD LOCK) appears and the TV channel is locked.

#### To reset the CHILD LOCK function:

Press the blue button again.

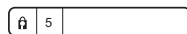
**Ⓔ** (CHILD LOCK) disappears.

To disable easy resetting of the CHILD LOCK function, the menu disappears by choosing the CHILD LOCK function and pressing the **OK** button as in the ordinary menu operation.

## ■ To view a locked TV channel

### 1 Choose a Programme number (PR) in which a TV channel locked with the Number buttons or PR LIST

The screen changes to blue and the **Ⓔ** (CHILD LOCK) appears. You cannot view the TV channel.



D0027-EN

### 2 Press the **i** (Information) button to display "ID NO." (ID NO. input screen)



D0028-EN

### 3 Press the Number buttons to enter the ID number

The lock is temporarily released so you can view the TV channel.

#### If you have forgotten the ID number:

Perform step 1 of "To set the CHILD LOCK function". After confirming the ID number, press the **TV** button to exit the menu.

- Even if you reset the lock temporarily, it does not mean that the CHILD LOCK function set for the TV channel is cancelled. The next time anyone attempts to view the TV channel, it will be locked again.
- When you would like to cancel the CHILD LOCK function, you must perform the operation "To set the CHILD LOCK function" again.
- To disable easy choosing of a Programme number (PR) in which a locked TV channel has been registered, the Programme number (PR) has been set that it cannot be chosen by the **▼/▲** buttons or the operation buttons at the TV.
- To disable easy resetting of the lock, "ID NO." (ID NO. input screen) is set so that it cannot appear unless you press the **i** (Information) button.

---

## APPEARANCE

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Press the ◀/▶ button and choose the format in which the channel number is displayed from the three types: TYPE A, TYPE B and TYPE C.

---

## BLUE BACK

---

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an external device.

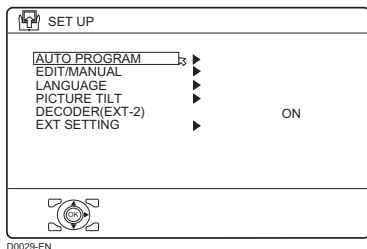
**ON:**

This function is turned on.

**OFF:**

This function is turned off.

# SET UP menu

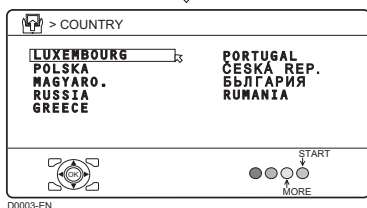
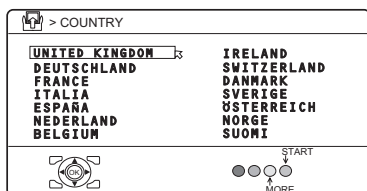


## AUTO PROGRAM

The AUTO PROGRAM function TV channel automatic registration which was performed in the “Initial settings” (page 6) can be preformed again.

### 1 Choose AUTO PROGRAM, then press the OK or ► button

The COUNTRY menu appears as a sub-menu of the AUTO PROGRAM function. There are two COUNTRY menus. Pressing the yellow button changes the COUNTRY menu as follows:



### 2 Press the ◀/▶ and ▼/▲ buttons to choose the country where you are now located

### 3 Perform steps 5 and 6 of the “Initial settings” (page 7).

## EDIT/MANUAL

The EDIT/MANUAL functions are divided into two types: editing of the current Programme numbers (PR) (EDIT functions) and manual registration of a TV channel you want to view to the Programme number (PR) (MANUAL function). The details about these functions are as follows:

### MOVE:

This function changes a Programme number (PR) of a TV channel.

### ID:

This function registers a Channel name (ID) to a TV channel.

### INSERT:

This function adds a new TV channel in the current Programme numbers (PR) list by using the CH/CC number.

- You cannot use the INSERT function if you do not know a Channel number of a TV channel. Use the MANUAL function to register a TV channel in the Programme number (PR).

### DELETE:

This function deletes an unnecessary TV channel.

### MANUAL:

This function manually registers a new TV channel in a Programme number (PR).

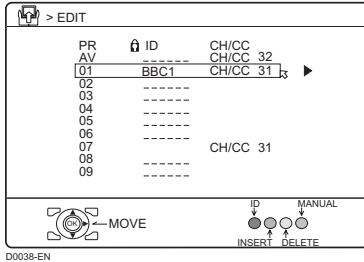
## Caution

- Using the MOVE, DELETE or INSERT function rewrites the current Programme numbers (PR) list. Resultingly, the Programme number (PR) of some of the TV channels will change.
- Using the MANUAL function for a TV channel for which the CHILD LOCK function has been set cancels the CHILD LOCK function for the TV channel.
- Using the MANUAL function for a TV channel for which the DECODER (EXT-2) function has been set to ON returns the setting of the DECODER (EXT-2) function for the TV channel to OFF.
- When a TV channel has already been registered in PR 99, using the INSERT function deletes the TV channel.

## Basic operation

### 1 Choose EDIT/MANUAL, then press the OK or ► button

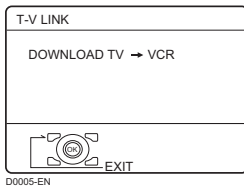
The EDIT menu appears.



### 2 Follow the operation description of a function you want to use and operate the function

### 3 Press the OK button to complete the settings

The T-V LINK menu appears.



### If you do not have a T-V LINK compatible VCR connected:

Press the **TV** button to exit the T-V LINK menu.

The T-V LINK menu disappears.

### 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 9 to transmit the Programme number (PR) data.

- For Programme number PR 0, “AV” appears in the Programme numbers (PR) list.
- An EXT terminal number does not appear in the Programme numbers (PR) list.

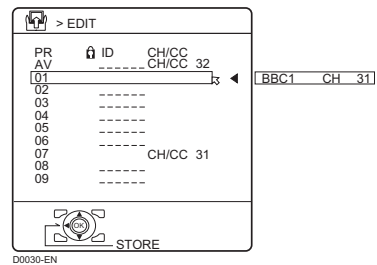
- The CH/CC number is a number unique to the TV and corresponding to the Channel number of a TV channel. For the relationship of a Channel number and a CH/CC number, see “CH/CC numbers” on page 43.

## MOVE

### 1 Press the ▼/▲ buttons to choose a TV channel

Every time you press the ▼/▲ buttons, the Programme number (PR) is changed over, and the picture of the TV channel registered in the Programme number (PR) appears on the screen.

### 2 Press the ► button to start the MOVE function



### 3 Press the ▼/▲ buttons to choose a new Programme number (PR)

To cancel the MOVE function:  
Press the **BACK** button.

### 4 Press the ◀ button to change the Programme number (PR) of a TV channel to a new Programme number (PR)

■ DELETE

1 Press the ▼/▲ buttons to choose a TV channel

Every time you press the ▼/▲ buttons, the Programme number (PR) is changed over, and the picture of the TV channel registered in the Programme number (PR) appears on the screen.

2 Press the yellow button to delete the TV channel

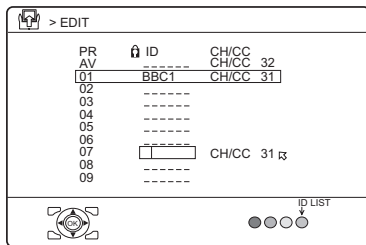
The TV channel is deleted from the Programme numbers (PR) list.

■ ID

1 Press the ▼/▲ buttons to choose a TV channel

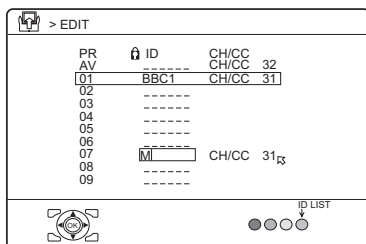
Every time you press the ▼/▲ buttons, the Programme number (PR) is changed over, and the picture of the TV channel registered in the Programme number (PR) appears on the screen.

2 Press the red button to start the ID function



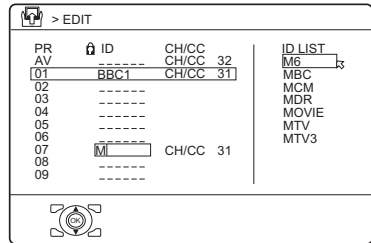
D0031-EN

3 Press the ▼/▲ buttons to choose the first character of a Channel name (ID) you want to attach to the TV channel



D0032-EN

4 Press the blue button to display the ID LIST (channel name list)



D0033-EN

5 Press the ▼/▲ buttons to choose the Channel name (ID)

To cancel the ID function:  
Press the **BACK** button.

6 Press the OK button to register a Channel name (ID) to a TV channel

- You can register your unique Channel name (ID) to the TV channel. When step 3 is completed, do not go to step 4, but press the ◀/▶ buttons to move the cursor and the ▼/▲ buttons to choose a character for completing the Channel name (ID). Then press the **OK** button to register the Channel name (ID) to the TV channel.

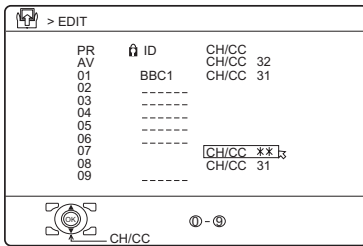
Before performing INSERT or MANUAL operation

- If you register the TV channel (SECAM-L system) from a French station, be sure to set the COUNTRY setting to FRANCE. If the COUNTRY setting is not set to FRANCE, perform steps 1 and 2 of the “AUTO PROGRAM” (page 32) procedure and set the COUNTRY setting to FRANCE before pressing the **OK** button.
- A CH/CC number unique to this TV and corresponding to the Channel number of a TV channel is required. Find the corresponding CH/CC number from a table “CH/CC numbers” on page 43 based on the Channel number of the TV channel.

- When the COUNTRY setting is not FRANCE, use a two-digit CH/CC number. When the COUNTRY setting is FRANCE, use a three-digit CH/CC number.

## ■ INSERT

- Press the **▼/▲** buttons to choose a Programme number (PR) for which you will register a new TV channel
- Press the green button and start the INSERT function



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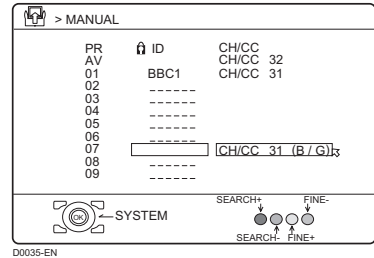
- Press the **▼/▲** buttons to choose "CC" or "CH" according to the CH/CC number of the TV channel  
When the COUNTRY setting is FRANCE:  
Choose "CH1", "CH2", "CC1" or "CC2".  
To cancel the INSERT function:  
Press the **BACK** button.

- Press the Number buttons to enter the remaining CH/CC number  
The TV shifts to registration mode. When the registration is completed, the picture of the TV channel appears on the screen.
  - The CH/CC number is a number indicating the broadcast frequency to the TV. If the TV cannot detect the TV channel corresponding to the broadcast frequency indicated by the CH/CC number, a picture in the no-signal state appears.

## ■ MANUAL

- Press the **▼/▲** buttons to choose a Programme number (PR) to which you want to register a new TV channel
- Press the blue button to activate the MANUAL function

At the right side following the CH/CC number, the SYSTEM (broadcasting system) of the TV channel appears.



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To cancel the MANUAL function:  
Press the **BACK** button.

- Press the **▶** button to choose the SYSTEM (broadcasting system) for a TV channel you want to register TV channel (SECAM-L system) from a French station:  
Set the SYSTEM to "L". If it is set to one other than "L", you cannot receive the TV channel of the SECAM-L system.  
**Other TV channels:**  
If you do not know the correct broadcasting system, set the SYSTEM to "B/G". If "B/G" is not correct, it results in the fact that you will not hear the sound normally when the TV detects a TV channel. In this case, retry to set the SYSTEM again correctly so that no problem arises.

- Press the green or red button to search for a TV channel  
Scanning stops when the TV finds a TV channel. Then the TV channel is displayed.

- 5 Press the green or red button repeatedly until the TV channel you want appears

**If the TV channel reception is poor:**

Press the blue or yellow button to fine-tune the TV channel.

**If you cannot hear the normal sound even when the picture of the TV channel appears normally:**

The SYSTEM setting is wrong. Press the ► button and choose a SYSTEM that has normal sound.

- 6 Press the OK button and register the TV channel to a Programme number (PR)

The normal EDIT menu is resumed.

## LANGUAGE

The LANGUAGE setting which was performed in the “Initial settings” (page 6) can be changed.

- 1 Choose LANGUAGE, then press the OK or ► button

A sub-menu of the LANGUAGE function appears.



D0002(E)-EN

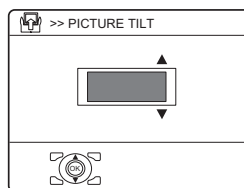
- 2 Press the ◀/▶ and ▼/▲ buttons to choose a language. Then press the OK button

## PICTURE TILT

There are cases where the Earth’s magnetic force may make the picture tilt or make unnatural colours appear in the corner of the screen. If this happens, you can correct it.

- 1 Choose PICTURE TILT, then press the OK or ► button

The sub-menu of the PICTURE TILT function appears.



D0018-EN

- 2 Press the ▼/▲ buttons until the picture becomes level. Then press the OK button

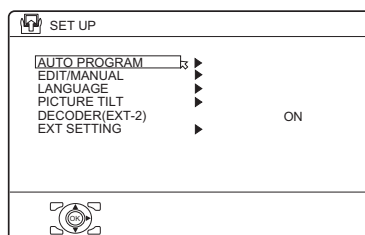
## DECODER (EXT-2)

When connecting a Decoder with a T-V LINK compatible VCR connected to the EXT-2 terminal, use the DECODER (EXT-2) function to unscramble the scrambled TV channels.

- 1 Turn on the Decoder power
- 2 Display the TV channel capable of being unscrambled with the Decoder on the TV

Even if the Decoder is functioning, a scrambled picture appears at this time.

- 3 Display the SET UP menu and choose DECODER (EXT-2)



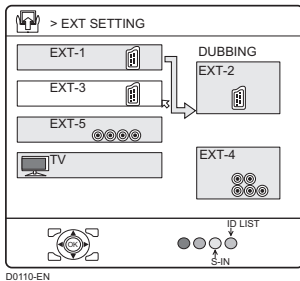
D0029-EN



**Preparation:**

- At first, read the Device Instruction Manual and “Additional preparation” on page 40 to connect the device to the TV properly. Second, follow the Device Instruction Manual to set the device so that an S-VIDEO signal (Y/C signal) can be output to the TV.
- Do not set S-IN (S-VIDEO input) to the EXT terminal connected to a device which cannot output an S-VIDEO (Y/C signal). If it is set wrongly, a picture cannot appear.

**1 Press the ◀/▶ or ▼/▲ buttons to choose an EXT terminal**



D0110-EN

**2 Press the yellow button and set the S-IN (S-VIDEO input).**

**Then press the OK button**

An S-IN (S-VIDEO input) mark is displayed. You can view an S-VIDEO signal (Y/C signal) instead of the regular video signal (composite signal).

**To cancel the S-IN (S-VIDEO input) setting:**

Press the yellow button and turn off S-IN (S-VIDEO input) mark. The regular video signal (composite signal) pictures are resumed.

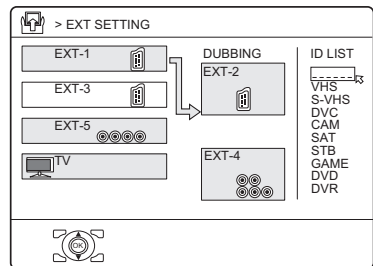
- The EXT-1 terminal does not support S-VIDEO signal (Y/C signal) and you cannot set S-IN (S-VIDEO input) in the EXT-1 terminal.
- Setting S-IN (S-VIDEO input) changes the head character from “E” to “S”. For example, “E2” is changed to “S2”.
- Even a device which enables the S-VIDEO signal (Y/C signal) to be output may output a regular video signal (composite signal) depending on the device setting. If a picture cannot appear because S-IN (S-VIDEO input) setting has been made, read the device Instruction Manual carefully again to check for the device settings.

**■ ID LIST**

You can have a name corresponding to the devices connected for each EXT terminal. Giving a name to an EXT terminal makes the EXT terminal number appear on the screen, together with the name.

**1 Press the ◀/▶ or ▼/▲ buttons to choose an EXT terminal**

**2 Press the blue button to display the name list (ID LIST)**



D0021-EN

### 3 Press the ▼/▲ buttons to choose a name. Then press the OK button

The ID LIST disappears and the name is assigned to the EXT terminal.

- You cannot assign an EXT terminal name not found in the name list (ID LIST).

#### To erase a name assigned to the EXT terminal:

Choose a blank space.

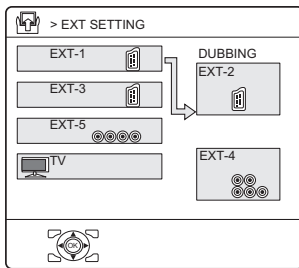
### 4 Press the OK button to complete the setting

## ■ DUBBING

You can choose a signal source to be output from an EXT-2 terminal.

You can choose any one of the output signal of the device connected to the EXT terminal and the picture and sound from a TV channel you are currently viewing to output it to the EXT-2 terminal.

### 1 Press the ◀/▶ buttons to choose the arrow from the menu



### 2 Press the ▼/▲ buttons to choose an EXT terminal or TV. Then press the OK button

The arrow in the menu represents a signal flow. The left side of the arrow denotes a signal source output from the EXT-2 terminal.

#### EXT-1/EXT-3/EXT-5:

The output signal of the device connected to an EXT terminal passes through the TV and is output from the EXT-2 terminal.

#### TV:

The picture and sound of the TV channel you are currently viewing are output from the EXT-2 terminal.

- During dubbing, you cannot turn off the TV. Turning off the TV also turns off the output from the EXT-2 terminal.
- When you choose an EXT terminal as an output, you can view a TV programme or a picture from the other EXT terminal while dubbing the picture from a device connected to the EXT terminal onto a VCR connected to the EXT-2 terminal.
- The RGB signals from the TV games cannot be output. Teletext programmes cannot be output.

# Additional preparation

## Connecting the external devices

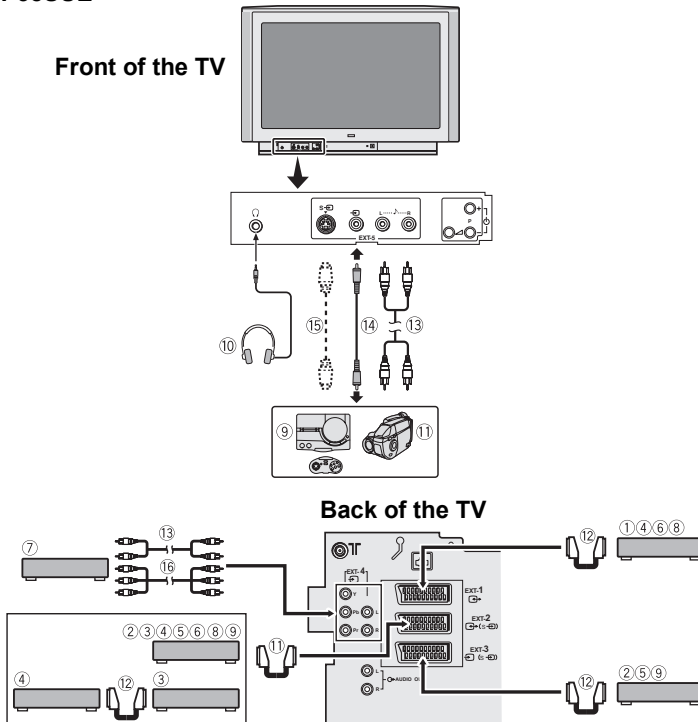
Connect the devices to the TV, paying attention to the following connection diagram.

### Before connecting anything:

- Read the manuals provided with the devices. Depending on the devices, the connection method may differ from the figure. In addition, the device settings may be changed depending on the connection method to secure proper operation.
- Turn off all the devices including the TV.
- The “Specifications” on page 48 contains the details of the EXT terminals. If you are connecting a device not listed in the following connection diagram, see the table to choose the best EXT terminal.
- Note that connecting cables are not supplied.

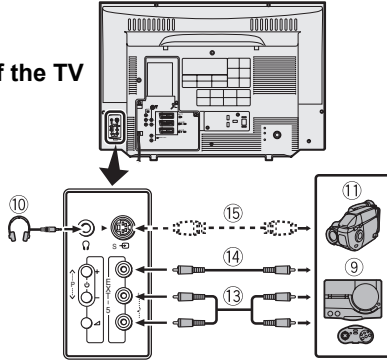
- ① VCR (composite signal)
- ② VCR (composite signal/S-VIDEO signal)
- ③ T-V LINK compatible VCR (composite signal/S-VIDEO signal)
- ④ Decoder
- ⑤ DVD player (composite signal/S-VIDEO signal)
- ⑥ DVD player (composite signal/RGB signal)
- ⑦ DVD player (component video signals; Pr/Pb/Y)
- ⑧ TV game (composite signal/RGB signal)
- ⑨ TV game (composite signal/S-VIDEO signal)
- ⑩ Headphones
- ⑪ Camcorder (composite signal/S-VIDEO signal)
- ⑫ SCART cable
- ⑬ Audio cable
- ⑭ Video cable
- ⑮ S-VIDEO cable
- ⑯ Component cable

### HV-36P38SUE

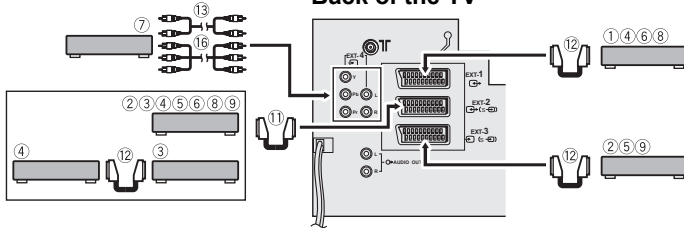


HV-32P37SUE/HV-28P37SUE

Back of the TV



Back of the TV



■ **Devices which can output the S-VIDEO signal (Y/C signal) such as a S-VHS VCR**

Connect the device to an EXT terminal other than the EXT-1 terminal.

You can choose a video input signal from the S-VIDEO signal (Y/C signal) and regular video signal (composite signal). For details of how to operate the device, see “S-IN (S-VIDEO input)” on page 37.

■ **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. After you have registered TV channels to the Programme numbers (PR), set the DECODER (EXT-2) function for the Programme number (PR) to ON in order to unscramble a scrambled TV channel. For details of operation, see “DECODER (EXT-2)” on page 36.

■ **Connecting headphones**

Connect the headphones with a stereo mini-jack (of 3.5 mm in diameter) to the headphone jack at the TV rear panel.

- No sound comes out from the TV speakers when the headphones are connected and only one screen is displayed.

■ **Video/sound signal output from the EXT-2 terminal**

You can arbitrarily change over the output of the video/sound signal from the EXT-2 terminal. It is useful when you want to dub the video/sound from another device on the VCR connected to the EXT-2 terminal. For details on how to do this operation, see “DUBBING” on page 39.

■ **TV output from the EXT-1 terminal**

The output of video/sound signal of a TV channel you are currently viewing is always output from the EXT-1 terminal.

- Changing over a Programme number (PR) also changes over the TV output from the EXT-1 terminal.
- The video/sound signal from an EXT terminal cannot be output.
- Teletext programmes cannot be output.

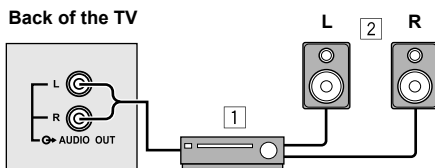
■ **Connecting Speakers/Amplifier**

While referring to the Audio equipment connection diagram, connect the audio equipment you desire to the TV.

You can use external front speakers to listen to the TV sound instead of the TV speakers.

**Before connecting anything:**

- Read the manuals provided with the amplifier and speakers.
- Turn the TV and Amplifier off.
- To prevent magnetism from the speakers adversely affecting the TV screen, use magnetic-shielded speakers for the front speakers.
- Note that connecting cables are not supplied.



- 1 Amplifier
- 2 Front speakers (Magnetic-shielded type)

- The output from the AUDIO OUT terminal is not interrupted by headphone connection to the TV. You cannot cut the sound from the front speaker even if you connect a headphone to the TV.
- Adjust the volume of the external speakers with the amplifier.

# CH/CC numbers

When you want to use the INSERT function on page 35, find the CH/CC number corresponding to the Channel number of the TV channel from this table.

CH	Channel	CH	Channel	CC	Channel	CC	Channel
CH 02 / CH 202	E2, R1	CH 40 / CH 240	E40, R40	CC 01 / CC 201	S1	CC 31 / CC 231	S31
CH 03 / CH 203	E3, ITALY A	CH 41 / CH 241	E41, R41	CC 02 / CC 202	S2	CC 32 / CC 232	S32
CH 04 / CH 204	E4, ITALY B, R2	CH 42 / CH 242	E42, R42	CC 03 / CC 203	S3	CC 33 / CC 233	S33
CH 05 / CH 205	E5, ITALY D, R6	CH 43 / CH 243	E43, R43	CC 04 / CC 204	S4	CC 34 / CC 234	S34
CH 06 / CH 206	E6, ITALY E, R7	CH 44 / CH 244	E44, R44	CC 05 / CC 205	S5	CC 35 / CC 235	S35
CH 07 / CH 207	E7, ITALY F, R8	CH 45 / CH 245	E45, R45	CC 06 / CC 206	S6	CC 36 / CC 236	S36
CH 08 / CH 208	E8, R9	CH 46 / CH 246	E46, R46	CC 07 / CC 207	S7	CC 37 / CC 237	S37
CH 09 / CH 209	E9, ITALY G	CH 47 / CH 247	E47, R47	CC 08 / CC 208	S8	CC 38 / CC 238	S38
CH 10 / CH 210	E10, ITALY H, R10	CH 48 / CH 248	E48, R48	CC 09 / CC 209	S9	CC 39 / CC 239	S39
CH 11 / CH 211	E11, ITALY H+1, R11	CH 49 / CH 249	E49, R49	CC 10 / CC 210	S10	CC 40 / CC 240	S40
CH 12 / CH 212	E12, ITALY H+2, R12	CH 50 / CH 250	E50, R50	CC 11 / CC 211	S11	CC 41 / CC 241	S41
CH 21 / CH 221	E21, R21	CH 51 / CH 251	E51, R51	CC 12 / CC 212	S12	CC 75 / CC 275	X
CH 22 / CH 222	E22, R22	CH 52 / CH 252	E52, R52	CC 13 / CC 213	S13	CC 76 / CC 276	Y, R3
CH 23 / CH 223	E23, R23	CH 53 / CH 253	E53, R53	CC 14 / CC 214	S14	CC 77 / CC 277	Z, ITALY C, R4
CH 24 / CH 224	E24, R24	CH 54 / CH 254	E54, R54	CC 15 / CC 215	S15	CC 78 / CC 278	Z1, R5
CH 25 / CH 225	E25, R25	CH 55 / CH 255	E55, R55	CC 16 / CC 216	S16	CC 79 / CC 279	Z+2
CH 26 / CH 226	E26, R26	CH 56 / CH 256	E56, R56	CC 17 / CC 217	S17		
CH 27 / CH 227	E27, R27	CH 57 / CH 257	E57, R57	CC 18 / CC 218	S18		
CH 28 / CH 228	E28, R28	CH 58 / CH 258	E58, R58	CC 19 / CC 219	S19		
CH 29 / CH 229	E29, R29	CH 59 / CH 259	E59, R59	CC 20 / CC 220	S20		
CH 30 / CH 230	E30, R30	CH 60 / CH 260	E60, R60	CC 21 / CC 221	S21		
CH 31 / CH 231	E31, R31	CH 61 / CH 261	E61, R61	CC 22 / CC 222	S22		
CH 32 / CH 232	E32, R32	CH 62 / CH 262	E62, R62	CC 23 / CC 223	S23		
CH 33 / CH 233	E33, R33	CH 63 / CH 263	E63, R63	CC 24 / CC 224	S24		
CH 34 / CH 234	E34, R34	CH 64 / CH 264	E64, R64	CC 25 / CC 225	S25		
CH 35 / CH 235	E35, R35	CH 65 / CH 265	E65, R65	CC 26 / CC 226	S26		
CH 36 / CH 236	E36, R36	CH 66 / CH 266	E66, R66	CC 27 / CC 227	S27		
CH 37 / CH 237	E37, R37	CH 67 / CH 267	E67, R67	CC 28 / CC 228	S28		
CH 38 / CH 238	E38, R38	CH 68 / CH 268	E68, R68	CC 29 / CC 229	S29		
CH 39 / CH 239	E39, R39	CH 69 / CH 269	E69, R69	CC 30 / CC 230	S30		

CH	Channel	CH	Channel	CC	Frequency (MHz)	CC	Frequency (MHz)
CH 102	F2	CH 141	F41	CC 110	116 - 124	CC 152	391 - 399
CH 103	F3	CH 142	F42	CC 111	124 - 132	CC 153	399 - 407
CH 104	F4	CH 143	F43	CC 112	132 - 140	CC 154	407 - 415
CH 105	F5	CH 144	F44	CC 113	140 - 148	CC 155	415 - 423
CH 106	F6	CH 145	F45	CC 114	148 - 156	CC 156	423 - 431
CH 107	F7	CH 146	F46	CC 115	156 - 164	CC 157	431 - 439
CH 108	F8	CH 147	F47	CC 116	164 - 172	CC 158	439 - 447
CH 109	F9	CH 148	F48	CC 123	220 - 228	CC 159	447 - 455
CH 110	F10	CH 149	F49	CC 124	228 - 236	CC 160	455 - 463
CH 121	F21	CH 150	F50	CC 125	236 - 244	CC 161	463 - 469
CH 122	F22	CH 151	F51	CC 126	244 - 252		
CH 123	F23	CH 152	F52	CC 127	252 - 260		
CH 124	F24	CH 153	F53	CC 128	260 - 268		
CH 125	F25	CH 154	F54	CC 129	268 - 276		
CH 126	F26	CH 155	F55	CC 130	276 - 284		
CH 127	F27	CH 156	F56	CC 131	284 - 292		
CH 128	F28	CH 157	F57	CC 132	292 - 300		
CH 129	F29	CH 158	F58	CC 133	300 - 306		
CH 130	F30	CH 159	F59	CC 141	306 - 311		
CH 131	F31	CH 160	F60	CC 142	311 - 319		
CH 132	F32	CH 161	F61	CC 143	319 - 327		
CH 133	F33	CH 162	F62	CC 144	327 - 335		
CH 134	F34	CH 163	F63	CC 145	335 - 343		
CH 135	F35	CH 164	F64	CC 146	343 - 351		
CH 136	F36	CH 165	F65	CC 147	351 - 359		
CH 137	F37	CH 166	F66	CC 148	359 - 367		
CH 138	F38	CH 167	F67	CC 149	367 - 375		
CH 139	F39	CH 168	F68	CC 150	375 - 383		
CH 140	F40	CH 169	F69	CC 151	383 - 391		

- When two CH/CC numbers correspond to one Channel number, choose either one according to the current COUNTRY setting. When the COUNTRY setting is other than FRANCE, choose a two-digit CH/CC number. When the COUNTRY setting is FRANCE, choose a three-digit CH/CC number.
  - Find the CH/CC number (CC110 to CC161) corresponding to the TV channel (SECAM-L system) from a French cable TV station, based on the broadcast frequency of the TV channel. When you do not know the broadcast frequency, please contact the cable TV station.
  - The CH/CC numbers of CH102-CH169 and CC110-CC161 correspond to the TV channels being broadcast by a SECAM-L system. The other CH/CC numbers correspond to the TV channels being broadcast by a method other than a SECAM-L system.
-

# Troubleshooting

If a problem arises while you are using the TV, please read this “Troubleshooting” well before you request having the TV repaired. You may be able to fix it easily by yourself. For example, if the AC plug is disconnected from the AC outlet, or the TV aerial has problems, you may think there is a problem with the TV itself.

## Important:

- This Troubleshooting guide only covers problems whose cause are not easy to determine. If a question arise when you are operating a function, read the page(s) corresponding to the operation of the function well, not this Troubleshooting guide.
- After you have followed the Troubleshooting description or the operating description of the functions concerned without any success, remove the AC plug from the AC outlet and request a repair of your TV. Do not attempt to repair the TV by yourself or remove the rear cover of the TV.

## ■ If you cannot turn on the TV

- Is the AC plug connected to the AC outlet?
- Is the Power lamp lit? If not, press the Main power button.
- Make sure to set the VCR/TV/DVD switch to the TV position. You cannot turn the TV on when the VCR/TV/DVD switch is set to the VCR or DVD position.

## ■ If you cannot turn off the TV

- Make sure to set the VCR/TV/DVD switch to the TV position. You cannot turn the TV off when the VCR/TV/DVD switch is set to the VCR or DVD position.

## ■ No picture/No sound

- Have you chosen a TV channel whose reception is extremely bad? In this case, the BLUE BACK function will be activated, the entire screen becomes blue, and the sound is muted. In spite of this, if you want to view the TV channel, follow the description “BLUE BACK” on page 31 to try to change the BLUE BACK function setting to OFF.
- If the SYSTEM setting for a TV channel is incorrect, it may prevent the sound from being issued. Follow the description “EDIT/MANUAL” on page 32 to use the MANUAL function to try to change the SYSTEM setting.

## ■ Poor picture

- If noise totally obscures the picture (snow), the aerial or aerial cable may have trouble. Check the following to try to solve the trouble:
  - Has the TV and aerial been connected properly?
  - Has the aerial cable been damaged?
  - Is the aerial pointed to the right direction?
  - Is the aerial itself faulty?
- If the TV or aerial receives interference from the other devices, stripes or noise may appear in the picture. Move such devices as an amplifier, personal computer, or a hair drier that can cause interference away from your TV, or try changing its location. If the aerial suffers interference from a radio tower or high-voltage wire, please contact your local dealer.
- If the TV receives interference from signal reflecting from mountains or building, double-pictures (ghosting) will occur. Try to change the aerial’s direction or replace the antenna with the one with better directionality.
- Are your COLOUR SYSTEM settings for the TV channels correct? Follow the description “COLOUR SYSTEM” on page 26 to try to solve the trouble.

- Has COLOUR or BRIGHT been controlled properly? Follow the description “BRIGHT” or “COLOUR” on page 24 to try to adjust them properly.
- Videotaping teletext is not recommended because it may not record correctly.
- When a white and bright still image (such as a white dress) is displayed on the screen, the white part may look as if it were coloured. It is a phenomenon unavoidable due to the nature of the picture tube itself, and not due to a TV failure. When the picture disappears from the screen, the unnatural colours will also disappear.
- When viewing images from commercially available video software products, or videos from videotapes which have been recorded improperly, the top of the image may be distorted. This is due to the condition of the video signal, and not because of malfunction.
- Since this TV is designed to make full use of the resolution of the original video source, the motion may appear unnatural when the video source is input with 625p progressive-scanning component signals. If this occurs, change the output setting of the connected device to 625i interlace-scanning component signal output.
- Have you attempted to use the remote control at the sides or rear of the TV or at a location more than seven meters apart from the TV location? Operate the remote control in the front of your TV or a location less than seven meters from your TV to try to solve the problem.
- When you are viewing a teletext programme, you cannot operate the menus. Press the **TV** button to return the teletext programme to the ordinary TV programme to try operating the menus.
- If the TV operation becomes disabled suddenly, press the Main power button on the TV and turn off the main power. Try to press the Main power button again to turn on the main power. If the TV returns to a normal state, it is not a failure.

### ■ Other concerns

- When the SLEEP TIMER function operates, the TV is automatically turned off. If the TV is turned off suddenly, try to press the  $\odot/\text{I}$  (Standby) button to turn on the TV once again. At this time, if the TV resumes a normal state, there is no problem.
- When a WSS signal is included in the broadcast signal or the signal from an external device, or when the TV is receiving a control signal from an external device, the ZOOM mode will change automatically. When you want to return to the previous ZOOM mode, press the **ZOOM** button to choose the ZOOM mode again.
- If you bring a magnetised device such as a speaker near to your TV, a picture may be warped or unnatural colours appear at the corners of the screen. In this case, keep the device apart from your TV. If the speakers causes such phenomena, use the magnetic-shielded speakers instead.
- A picture may be tilted due to the influence of the earth's magnetism. In this case, use the “PICTURE TILT” on page 36 to complete the tilt.

### ■ Poor sound

- Have you adjusted BASS or TREBLE properly? If not, follow the description “BASS” or “TREBLE” on page 28 to try to adjust them properly.
- When the TV channel reception is poor, it can be hard to hear the stereo or bilingual sound. In this case, follow the description “STEREO / I • II” on page 28 to hear the sound more easily by changing it to a mono sound.

### ■ Operation disabled

- Have the batteries of the remote control become exhausted? Follow the description “Putting the batteries into the Remote control” on page 6 and replace them with new batteries to try to solve the problem.

- It takes a short period of time from the time an operation such as changing channels is performed until an image is displayed. This is not a malfunction. This is the time required for the image to stabilize before it can be displayed.
- The TV may emit a crackling sound due to a sudden change in temperature. It does not matter if a picture or sound does not show any abnormality. If you hear crackling sounds frequently while you are viewing the TV, other causes may be assumed. For precautionary purposes, request your service technician to inspect it.
- Touching the screen may cause you feel a slight electric shock due to its static electricity. It is an unavoidable phenomenon due to the construction of the picture tube. It is not a problem with the TV. You can rest assured that this static discharge does not have harmful influence over the human body.
- When set to 2-pictures multi, adjust the headphone sound with HEADPHONE VOLUME in the SOUND menu.

# Specifications

Item	Model	HV-36P38SUE
Broadcasting systems		CCIR B/G, I, D/K, L
Colour systems		PAL, SECAM • The EXT terminals also support the NTSC 3.58/4.43 MHz system.
Channels and frequencies		• E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, ITALY A-H, ITALY H+1, ITALY H+2, F2-F10, F21-F69, R1-R12, R21-R69 • French cable TV channel of broadcast frequencies 116 - 172 MHz and 220 - 469 MHz
Sound-multiplex systems		A2 (B/G, D/K), NICAM (B/G, I, D/K, L) system
Teletext systems		FLOF (Fastext), TOP, WST (World Standard System)
Power requirements		220 - 240 V AC, 50 Hz
Power consumption		141 W, Standby: 2.0 W
Picture tube size		Viewable area 86 cm (measured diagonally)
Audio output		Rated Power output: TV: 10 W + 10 W, Woofer: 18 W
Speakers		TV: 2 cm round × 2, (3 cm × 10 cm) oval × 4, Woofer: 16 cm round × 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 terminal		Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available. • Video and Audio L/R outputs are available. • T-V LINK functions are available.
EXT-3 terminal		Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.
EXT-4 terminal		RCA connectors × 5 • Component video (Pr, Pb, Y) inputs (625p, 525p, 1125i) and Audio L/R inputs are available.
EXT-5 terminal		RCA connectors × 3 S-VIDEO connector × 1 • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.
AUDIO OUT terminal		RCA connectors × 2 • Audio L/R outputs are available. • Output level 0.5 Vrms.
Headphone jack		Stereo mini-jack (3.5 mm in diameter)
Dimensions (W × H × D)		TV: 912 mm × 624 mm × 593 mm, Woofer: 435 mm × 230 mm × 120 mm
Weight		TV: 70 kg, Woofer: 4 kg
Accessories		Remote control unit × 1 (RM-C1800), Woofer × 1 AA/R6 dry cell battery × 2

## Design and specifications subject to change without notice.

Pictures displayed on the screen using this TV's ZOOM functions should not be shown for any commercial or demonstration purpose in public places (cafes, hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.

Item \ Model	HV-32P37SUE	HV-28P37SUE
Broadcasting systems	CCIR B/G, I, D/K, L	
Colour systems	PAL, SECAM • The EXT terminals also support the NTSC 3.58/4.43 MHz system.	
Channels and frequencies	<ul style="list-style-type: none"> <li>• E2-E12, E21-E69, S1-S41, X, Y, Z, Z+1, Z+2, ITALY A-H, ITALY H+1, ITALY H+2, F2-F10, F21-F69, R1-R12, R21-R69</li> <li>• French cable TV channel of broadcast frequencies 116 - 172 MHz and 220 - 469 MHz</li> </ul>	
Sound-multiplex systems	A2 (B/G, D/K), NICAM (B/G, I, D/K, L) system	
Teletext systems	FLOF (Fastext), TOP, WST (World Standard System)	
Power requirements	220 - 240 V AC, 50 Hz	
Power consumption	137 W, Standby: 2.0 W	127 W, Standby: 2.0 W
Picture tube size	Viewable area 76 cm (measured diagonally)	Viewable area 66 cm (measured diagonally)
Audio output	Rated Power output: 10 W + 10 W	
Speakers	(13 cm × 6.5 cm) oval × 2	
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 terminal	Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input, Audio L/R inputs and RGB inputs are available. • Video and Audio L/R outputs are available. • T-V LINK functions are available.	
EXT-3 terminal	Euroconnector (21-pin, SCART) • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.	
EXT-4 terminal	RCA connectors × 5 • Component video (Pr, Pb, Y) inputs (625p, 525p, 1125i) and Audio L/R inputs are available.	
EXT-5 terminal	RCA connectors × 3 S-VIDEO connector × 1 • Video input, S-VIDEO (Y/C) input and Audio L/R inputs are available.	
AUDIO OUT terminal	RCA connectors × 2 • Audio L/R outputs are available. • Output level 0.5 Vrms.	
Headphone jack	Stereo mini-jack (3.5 mm in diameter)	
Dimensions (W × H × D)	948 mm × 562 mm × 550 mm	854 mm × 508 mm × 493 mm
Weight	54.0 kg	38.0 kg
Accessories	Remote control unit × 1 (RM-C1800) AA/R6 dry cell battery × 2	

### Design and specifications subject to change without notice.

Pictures displayed on the screen using this TV's ZOOM functions should not be shown for any commercial or demonstration purpose in public places (cafes, hotels, etc.) without the consent of the owners of copyright of the original picture sources, as this constitutes an infringement of copyright.



