

# JVC

## INSTRUCTIONS

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WIDE LCD PANEL TV

LT-37DV1BJ

LT-42DV1BJ



This TV can receive digital terrestrial broadcasting (DVB-T) in the following countries. (Supports standard definition MPEG-2 broadcast only) Digital terrestrial broadcasting (DVB-T) reception in other countries is not guaranteed.

Austria, Denmark, Finland, France, United Kingdom, Germany, Italy, Netherlands, Spain, Sweden, Switzerland, Czech Republic, Belgium

## Logo & License



**HDMI**™  
HIGH-DEFINITION MULTIMEDIA INTERFACE

**DVB**®  
Digital Video  
Broadcasting

HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

DVB is a registered trademark of the DVB Project

Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

MaxxAudio is a registered trademark of Waves Audio Ltd. in the USA, Japan and other countries.

### Note

The open source software is embedded in this product.

For more information, please go to:

[http://www.jvc-victor.co.jp/english/download/lrx/08\\_eu\\_dtv/](http://www.jvc-victor.co.jp/english/download/lrx/08_eu_dtv/)

## Information for Users on Disposal of Old Equipment and Batteries

**ENGLISH**



**Products**



**Battery**

### [European Union]

These symbols indicate that the electrical and electronic equipment and the battery with this symbol should not be disposed of as general household waste at its end-of-life. Instead, the products should be handed over to the applicable collection points for the recycling of electrical and electronic equipment as well as batteries for proper treatment, recovery and recycling in accordance with your national legislation and the Directive 2002/96/EC and 2006/66/EC.

By disposing of these products correctly, you will help to conserve natural resources and will help to prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of these products.

For more information about collection points and recycling of these products, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

### [Business users]

If you wish to dispose of this product, please visit our web page <http://www.jvc.eu/> to obtain information about the take-back of the product.

### [Other Countries outside the European Union]

These symbols are only valid in the European Union.

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

### Notice:

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

Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:

JVC Technical Services Europe GmbH

Postfach 10 05 04

61145 Friedberg

Germany

# Warning

Please follow all the guidelines below

## Follow this manual regarding setup!

- Connect only to a 220-240 V, 50 Hz AC outlet.

## Make enough room for inserting and removing the power plug!

### Place the TV as close to the outlet as possible!

- Even if the TV's power lamp is unlit, the main power supply is not cut off unless the power cord is unplugged. The main power supply for this TV is controlled by inserting or removing the power plug.

### Never cut or damage the power cord!

- If the power plug is not the right shape, or the power cord is not long enough, use an appropriate plug adapter or extension cable. (Consult your retailer.)
- If you have cut or damaged the power cord.
  - ➔ "Technical information" (P. 45)
- To change the fuse in power plug
  - ➔ "Technical information" (P. 45)



## Unplug the power cord when going out!

- Unplug the power cord to completely turn off the TV. (Make appropriate arrangements for bedridden people.)



## Do not allow the TV to fall!

- Do not rest your elbows on, or allow children to hang from the TV. There is a risk that the TV will fall and cause injuries.

## Never try to repair the TV yourself!

➔ If the problem cannot be solved in "Troubleshooting" (P. 42), unplug the power cord and contact your retailer.

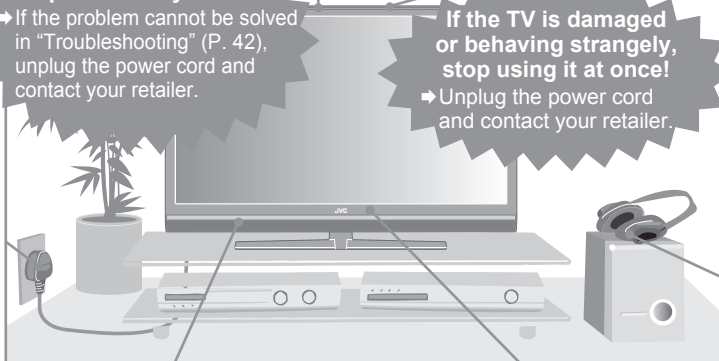
## On disposal of the TV!

- Follow the instruction in "Information for Users on Disposal of Old Equipment and Batteries" (P. 1).



## If the TV is damaged or behaving strangely, stop using it at once!

➔ Unplug the power cord and contact your retailer.



## Never place anything on the TV!

- Placing liquids, naked flames, cloths, paper, etc. on the TV may cause a fire.



## Never expose to rain or moisture!

- To prevent fire or electric shock, never allow liquids to enter the unit.



## Never insert objects into the cabinet openings!

- It may cause a fatal electric shock. Take care when children are near.



## Never obstruct the ventilation holes!

- It may cause overheating or a fire.

## Never listen to headphones at high volume!

- It may damage your hearing.

## When attaching the TV to the wall, use the optional JVC wall mounting unit!

- Consult a qualified technician.
- See the included manual on mounting procedures.
- JVC assumes no responsibility for damage due to improper mounting.

## Handle LCD panel with care!

- Use a soft, dry cloth when cleaning.

## Never dismantle the rear panel!

- It may cause an electric shock.

## Hold the TV so as not to scratch the screen!

- Do not touch the screen when carrying the TV.

## Do not carry the TV on your own!

- In order to prevent accidents, ensure that the TV is carried by two or more people.

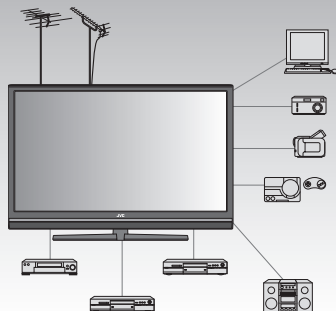


■ For more details on installation, usage and safety ➔ Consult your retailer

# Enjoy rich multi-media with JVC

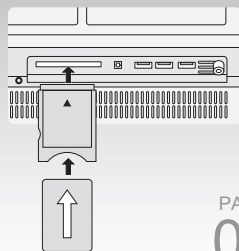
## Quick setup

### Connecting external devices and aerial



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### Watch pay-TV digital channels



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### Editing / tuning channels



Initial  
setting

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Auto Scan /  
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Update Scan

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Digital terrestrial broadcasting (DVB-T) → Digital channels    Analogue terrestrial broadcasting (VHF / UHF) and analogue cable TV → Analogue channels

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# Setting up your TV

## Accessories

Remote control



(For details on buttons and functions, see P. 15.)

Power cord



"AAA/R03" Batteries

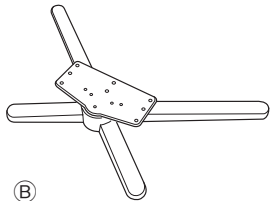
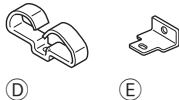
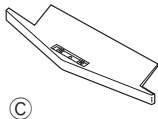
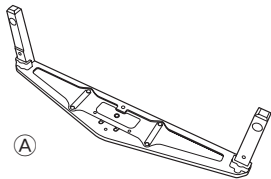


(For confirming the TV works)

### WARNING:

Batteries shall not be exposed to excessive heat such as direct sunshine, fire or the like.

### Stand assembly

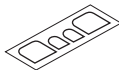


F (Short) x 4

G (Long) x 4

H x 1

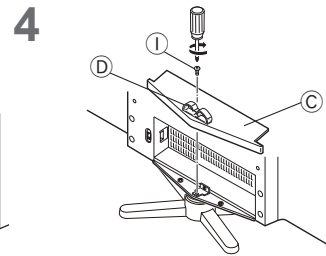
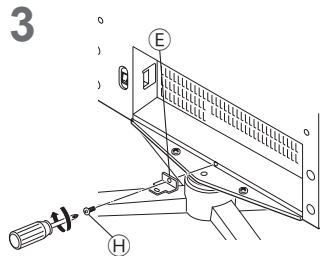
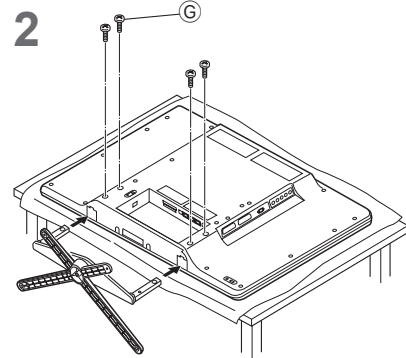
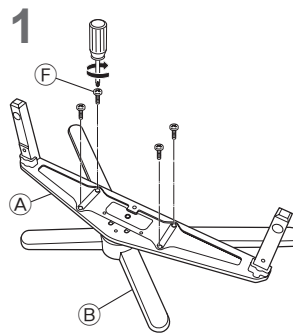
I x 1



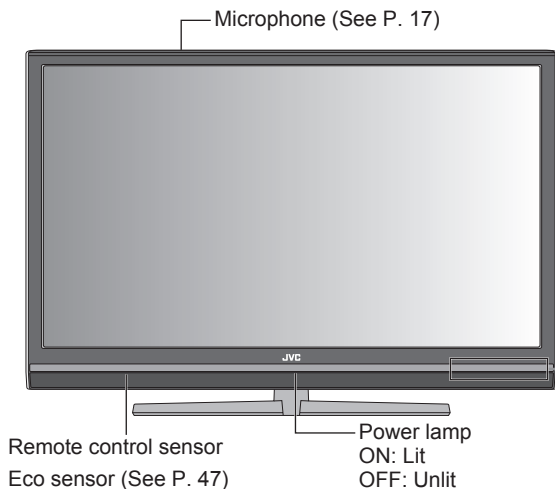
(See P. 7)

## Attach the stand to the TV

The stand will be supplied separately.  
See the illustration below to attach the stand to the TV.



● To prevent scratches on the panel, lay a piece of soft cloth on an even platform and place the TV onto it.

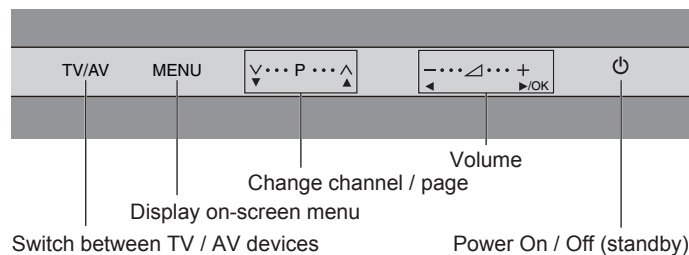


- The power lamp will blink for a while when you turn the main power switch on or insert the plug into an AC outlet. This is not a malfunction.
- The power lamp will blink every time the TV receives a signal from the remote or when a TV picks up a clapping sound.
- When you turn on the TV, the Power lamp will blink until you get a picture on the TV and the Power lamp will stay lit. When the Power lamp is blinking the TV will not be able to receive any commands.
- When "Power Lamp" is set to "Off", the Power lamp will not light up. For details, refer to "Power Lamp" (P. 35)

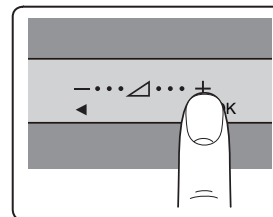
#### Note

- Peel off the protection films pasted on the TV stand after the TV has been placed properly.

### Touch sensor panel operation

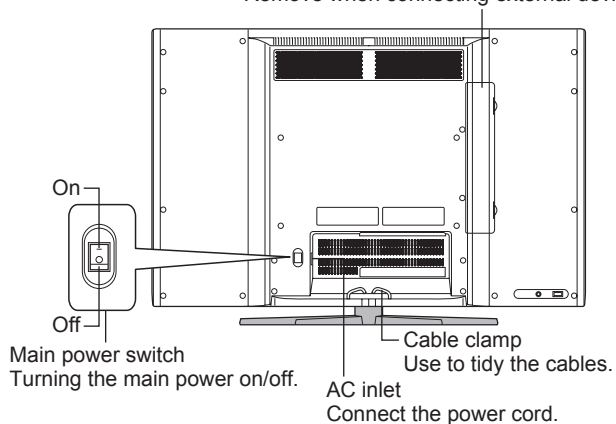


- Touch on the function name to operate the function



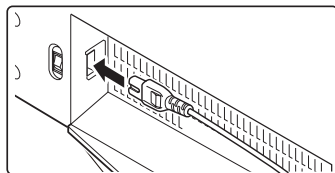
- You will hear a beep if you have touched the button correctly.

Terminal cover  
Remove when connecting external devices. (P. 9)



● For details on connecting terminals, see P. 9.

## Connecting the power cord



### WARNING:

To prevent fire, electric shock or any kind of damage to the TV, never connect a power cord other than supplied.

## Using the Main power switch

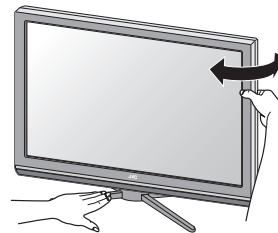


When you turn off the main power switch, you can reduce the power consumption to zero. However when the main power switch is turned off, you cannot turn the TV on. To turn on the TV, make sure the main power switched on.

## Concerning blinking Power lamp and the Beep sound

This TV is equipped with "Operate TV by clapping your hands (Hand Clap Function)" (P. 17). If you clap your hands facing towards the TV, the TV will detect a clap sound and the power lamp will blink. If the TV detects a command by clapping your hand, you will hear a beep sound and the TV will operate according to that command. If a clap-like sound was accidentally produced, the TV may operate the same way. This is not a malfunction. For more details. See "Things you should know" (P. 18)

## Change the direction of TV



## Install your TV

### ■ Power requirements

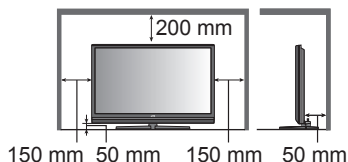
- Connect the power cord only to a 220 - 240 V, 50 Hz AC outlet.

### ■ When attaching the TV to the wall, use the optional JVC wall mounting unit

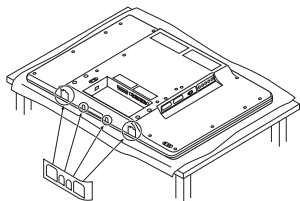
- Consult a qualified technician.
- See the included manual on mounting procedures.
- JVC assumes no responsibility for damage due to improper mounting.
- Mounting holes for wall mounting unit:  
M6 x 4, 400 mm x 200 mm  
Depth of screw hole is 13 mm from the surface of the TV.

### ■ Installation requirements

- Place the TV on the flat and stable location.
- To avoid overheating, ensure the unit has ample room.



## When attaching the TV to the wall



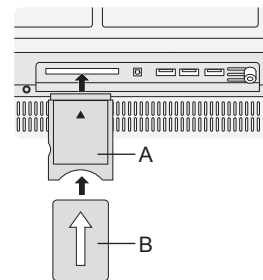
Seal up the 4 holes at the bottom of the TV using the plates provided. Peel off the protection films on the plates. Then peel the plates from the paper and stick them on the holes.

## Watch pay-TV digital channels

Subscribe to a broadcasting company beforehand. A Viewing Card (B) will be sent by the broadcasting company after subscribing to it. It may be necessary for you to purchase a CAM (Conditional Access Module) (A) in addition to the Viewing Card.

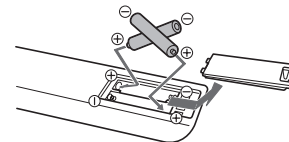
Consult your broadcasting company or retailer.

- ① Unplug the power cord.
- ② Insert "B" into "A".
- ③ Insert "A".
- ④ Plug the power cord, and turn the power on.
- ⑤ Perform necessary settings using "Common Interface". (P. 35)
  - Pay-TV analogue channels cannot be watched.

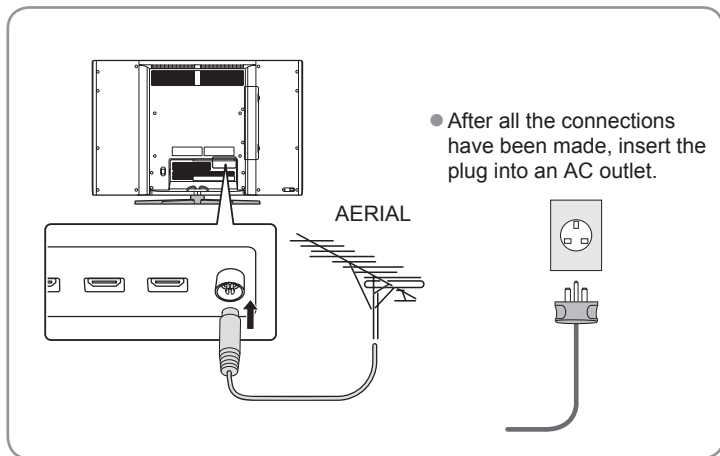


## Insert the batteries

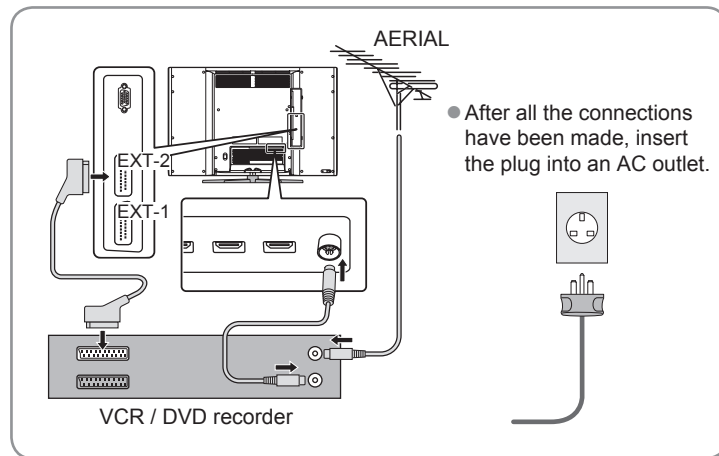
Use two "AAA/R03" dry cell batteries. Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.



## Connecting the aerial



## Connect a VCR / DVD recorder



## Power supply for the indoor aerial

When using an indoor aerial which requires external power, set “Antenna Power” to “On” in step 7 of “Initial settings” (P. 14). The TV will supply DC 5 V, 50 mA (max) from the aerial socket through the cable to the aerial.

- Supplying power to outdoor and indoor aerials which does not require external power, may cause damage to the aerial. If you are uncertain whether the aerial needs external power, select “Off”.
- Connect the aerial directly to the TV. When a recording device is connected between the aerial and the TV, power cannot be supplied to the aerial.
- Power is supplied to the aerial only when the TV is on.
- You can change the “Antenna Power” setting later. For details, refer to “Antenna Power” (P. 36).

## Connecting external devices

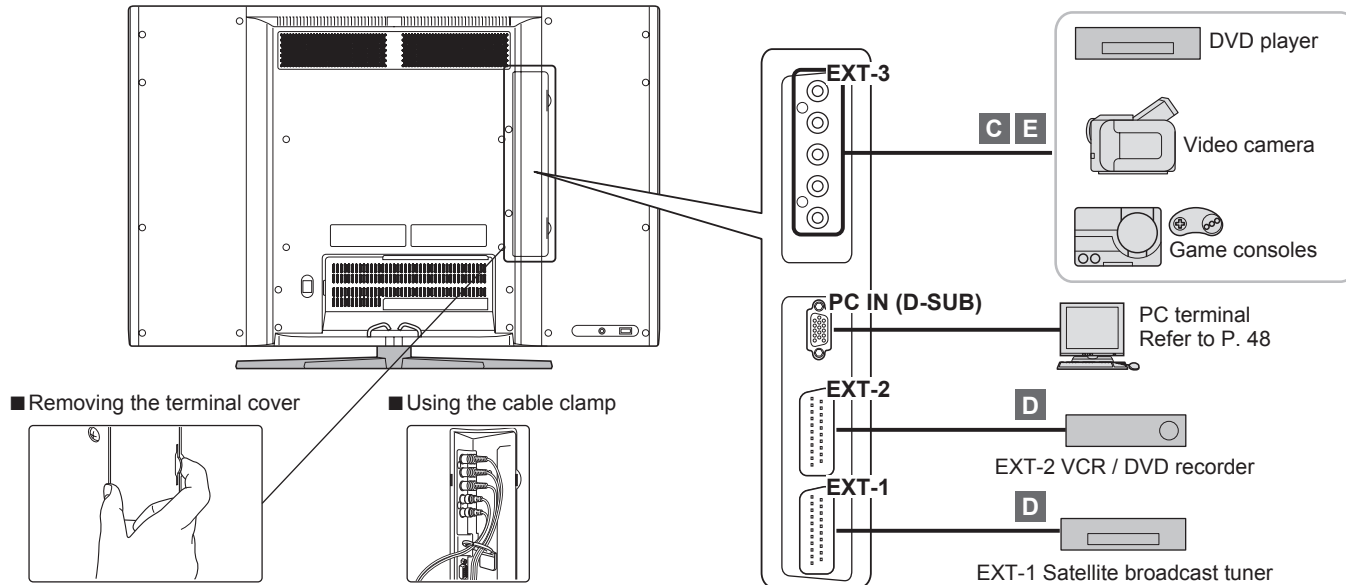
Make sure all the devices and the TV are turned off.  
The names of the devices shown in the following illustration are examples.

■ Find the best connections that are possible with your devices. → (P. 11)

### Note

- When using EXT-3 terminal, you can use the cable clamp to tidy the cables.
- Please read the user manuals of each device before setting up.
- Connecting cables are not supplied with this TV.
- You can tidy the cables using the cable clamp on the back of the stand.

**C D E** : type of connections

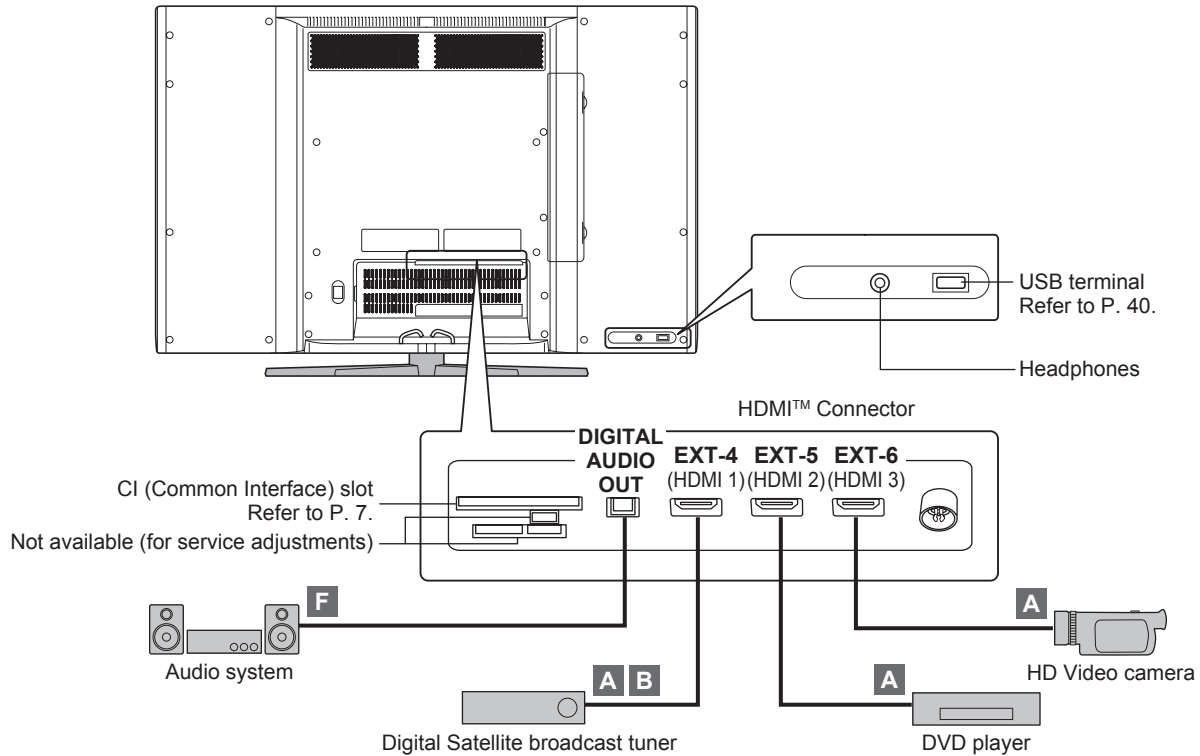


■ Removing the terminal cover

■ Using the cable clamp

- To remove the terminal cover, press both tips at same time.
- When attaching the TV to the wall, make sure to remove the terminal cover first.
- Make sure to keep the terminal cover incase you need to attach the cover back on.

**A B F** : type of connections















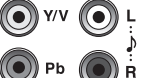



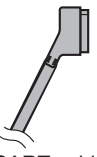



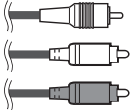
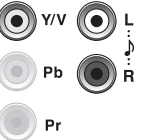
### Choose your best connection

You can connect your TV to other devices in different ways. Check your devices and choose the best connection. In addition, please read “Notes” before using.


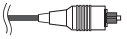

**Note**

● Please do not change any of the menu settings before completing the “Initial settings” (P. 13). Otherwise, the “Initial settings” will not start automatically.

Picture quality	Other devices	Connecting cables	Connect to your TV	Available signals	Notes
Best	 HDMI	 HDMI cable	 EXT-4 EXT-5 EXT-6	Input ● HDMI (digital) SD: 576i (625i), 480i (525i) ED: 576p (625p), 480p (525p) HD: 1080i (1125i), 1080p (1125p) / 24Hz, 1080p (1125p) / 50Hz, 1080p (1125p) / 60Hz, 720p (750p) Audio L / R	HDMI™ (HDMI™ CEC Support)  Please use a High Speed HDMI™ Cable. High Speed HDMI™ Cable are tested to carry an HD signal up to 1080p and higher.
	 DVI   Audio	  DVI-HDMI cable, Audio cable	 EXT-4   EXT-3: L and R jacks	Input ● DVI (digital) SD: 576i (625i), 480i (525i) ED: 576p (625p), 480p (525p) HD: 1080i (1125i), 1080p (1125p) / 24Hz, 1080p (1125p) / 50Hz, 1080p (1125p) / 60Hz, 720p (750p) ● Audio L / R (analogue)	
Better	 Component video and Audio	    Component video cable, Audio cable	 Y/V Pb Pr EXT-3	Input ● Component (analogue) SD: 576i (625i), 480i (525i) ED: 576p (625p), 480p (525p) HD: 1080i (1125i), 720p (750p) ● Audio L / R (analogue)	Change the EXT-3 setting from “Composite” to “Component”. (P. 27)

D	 <b>SCART</b> (Euroconnector)	 SCART cable	 EXT-1	<b>Input</b> <ul style="list-style-type: none"> <li>● Composite video (analogue)</li> <li>● S-Video (analogue) *NTSC/PAL compatible</li> <li>● RGB input (analogue)</li> <li>● Audio L / R (analogue)</li> </ul> <b>Output</b> <ul style="list-style-type: none"> <li>● Monitor out (composite video and audio L/R) (analogue)</li> </ul>	Please refer to the “Monitor out (EXT-1, EXT-2)” (P. 45) <ul style="list-style-type: none"> <li>● When connecting a decoder that are not equipped with a tuner, use EXT-1 terminal.</li> </ul>
			 EXT-2	<b>Input</b> <ul style="list-style-type: none"> <li>● Composite video (analogue)</li> <li>● S-Video (analogue) *NTSC/PAL compatible</li> <li>● Audio L / R (analogue)</li> </ul> <b>Output</b> <ul style="list-style-type: none"> <li>● Monitor out (composite video and audio L/R) (analogue)</li> </ul>	
E	 Video and audio	 Video and audio cable	 EXT-3: V, L, R jacks	<b>Input</b> <ul style="list-style-type: none"> <li>● Composite video (analogue)</li> <li>● Audio L / R (analogue)</li> </ul>	Change the EXT-3 setting from “Component” to “Composite”. (P. 27)

Good

	Audio system	Connecting cables	Connect to your TV	Available signals	Notes
F	 Optical input	 Optical audio cable	 DIGITAL AUDIO OUT	<b>Output</b> <ul style="list-style-type: none"> <li>● When watching digital channel Linear PCM / Dolby Digital / MPEG (digital)</li> <li>● Other Linear PCM (digital)</li> </ul>	Please refer to the ““Dolby Digital” output from the DIGITAL AUDIO OUT terminal” (P. 46)

## Initial settings

The initial settings will begin automatically when the TV is turned on for the very first time. Follow the on-screen instructions to perform the settings.

### 1 Turn on the main power switch on the rear side of the TV. (P. 6)

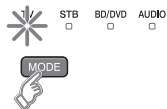


### 2 Turn the TV on



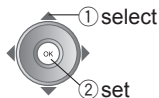
The power lamp on the TV lights

- If the remote control doesn't work, confirm that the mode is set to "TV".



### 3 Select a Menu language

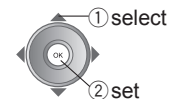
Select a language for on-screen displays.



- If the "Menu Language" does not appear, refer to "Factory Setting" (P. 39) or "Retuning" (P. 39) for channel settings.

### 4 Select a country \*

Select the country of installation. Receivable digital channels will differ depending on the "Country" setting.



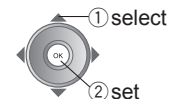
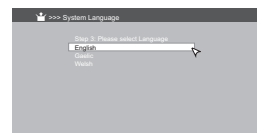
#### Note

\* To select a country that not listed, refer to (P. 1).

### 5 Select a system language

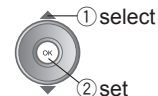
Select a language for audio, subtitle, and EPG.

- The system language will differ depending on selected country.



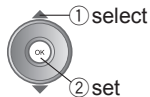
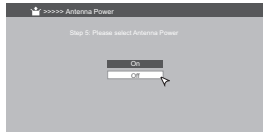
### 6 Select place of installation

Select "Home", for use at home.



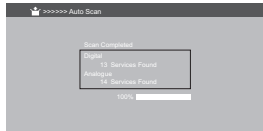
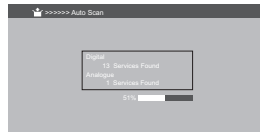
## 7 Set antenna power


Confirm that the aerial power supply is set to “Off”. Select “On” only when using an aerial which requires external power. (P. 8)



## 8 Start auto scan


Register channels



- If you cannot register channels, refer to “When you cannot watch TV channels” (P. 14).
- You can edit the channels after the initial settings. For details, refer to “Edit PR” (P. 38). To edit PR → 
- Some digital channels cannot be watched on this TV. For details, refer to page 45.

## 9 Finish



- To the previous screen → 
- If the “Menu Language” does not appear or if you wish to make changes later, refer to “Factory Setting” (P. 39) or “Retuning” (P. 39) for channel settings.

### When you cannot watch TV channels

#### 1 Check the following points

- Is the TV connected correctly to the aerial?
- Change the direction of the indoor aerial.

#### Note

- You can check the broadcast signal level of the channel you are watching. For details, refer to “Signal Check” (P. 39).

#### 2 Set digital channels using “Factory Settings”. For details, refer to “Factory Settings” (P. 39)

If you still cannot watch digital channels after following the steps above, there may be a problem with your aerial or its cable. Or, the signal may be too weak. → Consult your retailer







# Using remote control

## Buttons and functions









The functions of the remote control buttons are explained as follows.






This remote control can be configured to operate up to four different devices simply by changing the remote code.

“Configuring your remote control” (P. 28)





	<p>Switch between “TV / STB / BD/DVD / AUDIO”. (P. 28)</p>
	<p>Turn on / off (standby) the TV.</p>
	<p>Display favourite list. (P. 19)</p>
	<p>Display the Electronic Programme Guide (P. 24)</p>
	<p>Select and confirm settings in menus.</p>
	<p>Display on-screen menu. “Using the menu functions” (P. 30)</p>



	<p>To the previous menu.</p>
	<p>Exit from Electric Programme Guide and on-screen menu.</p>
	<p>Change the aspect ratio. (P. 22)</p>
	<p>Colour buttons: Select a page when viewing teletext. Operate functions in menus.</p>
	<p>Change channel / page.</p>
	<p>Volume control. ● The volume settings for headphone and speaker will be memorised separately.</p>
	<p>Watch video etc. “Watching videos / DVDs” (P. 27)</p>
	<p>Mute the sound.</p>

	<p>Enter channel / page number.</p>
	<p>Channel information. "Watching TV" (P. 20) To the index page. "Viewing teletext" (P. 26)</p>
	<p>View teletext. "Viewing teletext" (P. 26)</p>
	<p>Select digital / analogue / radio channels.</p>
	<p>Change the "MaxxAudio" setting. (P. 23)</p>



	<p>Display hidden information when viewing teletext. (P. 26)</p>
	<p>Change the subtitle language when viewing digital channels (P. 21)</p>
	<p>Change the audio language when viewing digital channels. (P. 21) Change the sound mode when viewing analogue channels. (P. 22)</p>
	<p>Set the sleep timer. (P. 23)</p>

**Note**

- For buttons that can be used to operate other devices, refer to "Configuring your remote control" (P. 28).

# Operate TV by clapping your hands

Hand Clap Function

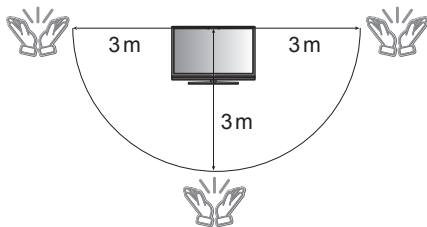
This TV is equipped with "Hand Clap Function", which you can operate the TV by clapping your hands. By clapping your hands number of times within a set interval, you can turn the TV on/off or mute/unmute. It is useful, for example, when you have to turn off the TV for a short period of time or mute the TV, when you have to answer a phone.

## Before you start

- There is a internal microphone on the upper side of the TV. To maintain the sensitivity, make sure not to cover the TV and keep room (more than 25 cm) on the upper side of the TV. Do not place speakers or any kind of device that outputs a sound near the microphone.
- If the room is in an environment with noise more than 80 dB, nix sign icon will be displayed and the Hand Clap Function will be unable to work. Keep the volume level below 24. If the volume level is above 25, nix sign icon will be displayed and the Hand Clap Function will be unable to work.

Even if the volume level is below 24, if the TV volume is too loud nix sign icon will be displayed. Programme with a loud TV volume such as music program nix sign icon will be displayed if the volume is too loud. In that case lower the volume until the nix sign icon disappears.

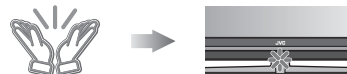
- You can operate with a hand clap under the range shown below. If you clap harder, you can operate in a range more than 3 m.



- Turn on the main power switch on the rear side of the TV (P. 6). If the main power switch is turned off, the Hand Clap Function will be unable to work.

## How to operate

Clap your hands once facing towards the TV. If the TV detects a clap, the power lamp will blink once.



If the power lamp does not blink, clap harder or go closer to the TV and clap again. Once you confirm that the power lamp blinks, now try operating the TV by clapping your hands. Clap your hands twice or 3 times (depending on your purposes) with an interval of 0.5 seconds.



To turn the TV on/off (standby), repeatedly clap your hands 3 times.

If the TV properly detects the command, you will hear a beep sound and the TV turns on/off.

To mute/unmute the TV, repeatedly clap your hands twice times.

If the TV properly detects the command, you will hear a beep sound and the TV enters mute/unmute.

- Depending on the volume or the interval of your clap, the TV may not detect a command properly and may show no reaction. When you try to turn on/off the TV, the TV did not detect the third clap and the TV enters mute/unmute. Try several times until you master it. Especially when clapping for 3 times, try to maintain the same interval with the first and second clap to the second and the third clap so that the TV can detect the correct command.

- You can also operate the TV by using a clap-like sound, such as a finger snap or a percussion instrument.

It may be fun to try out different kind of sounds.



### Nix sign icon

When nix sign icon is displayed, the Hand Clap Function will be unable to work. If the TV is in a bad condition such as, number clap is more than 4 times, a continuous noisy environment, or if TV is surrounded by clap-like sounds, the nix sign icon will be displayed and the Hand Clap Function will be unable to work. If these conditions are removed, the nix sign icon will disappear and you will be able to operate once again.

- Even if the nix sign icon is displayed, you can operate the TV with a remote or with a touch sensor panel.
- If the nix sign icon does not disappear, set the “Hand Clap Function” to “Off” by menu (P. 35).

### Setting the “Hand Clap Function” on/off

The factory default setting for “Hand Clap Function” is set to “On”. If the TV operates spontaneously by clap-like sound, set “Hand Clap Function” to “Off” (P. 35). Even if you set the function to off, the power lamp may still blink and you may still hear a beep sound when a TV detects a clap-like sound. However these behaviors will not effect the conditions of the TV.

## Things you should know

- Suddenly the power lamp may blink  
This TV monitors all of the sound around the TV and analyses clap sound based on frequency range, waveform and amplitude. Most of the sound which is produced in daily life will not be recognised as a clap sound, but some clap-like sound may be recognised as a clap sound. Therefore, by the unaware sound the power lamp may blink. This is not a malfunction.
- Suddenly you may hear a beep sound, enters mute/unmute, or turn the TV on/off.  
If a clap-like sound was accidentally produced with the right number of times in a right interval as the operation method, the TV will detect as a command and the TV will respond to that command after a beep sound. There is really very little chance that this will happen. This is not a malfunction.  
If you do not want the TV to respond to any sound, set the “Hand Clap Function” to “Off” (P. 35). Even if you set the function to off, the power lamp may still blink and you may still hear a beep sound when a TV detects a clap-like sound. However these behaviors will not effect the conditions of the TV.
- The TV may automatically turn off  
To prevent the TV running in case the TV accidently detects a clap-like sound and the TV turns on while you are out, this TV is equipped with “Auto Shut Off” function. If the TV is turned on by using “Hand Clap Function” and no operation is made by a remote or a touch censor for 3 hours the TV will automatically turn off.  
When the “Auto Shut Off” is working it may seem as though that the TV just suddenly turned off. This is not a malfunction.  
You can temporarily cancel the “Auto Shut Off” by operating the TV with a remote or with a touch censor within 3 hours. The factory default setting for “Auto Shut Off” is set to “On”.  
If you do not want the TV to automatically shut off when the TV is turned on by “Hand Clap Function”, set the “Auto Shut Off” to “Off” (P. 35).  
In such case, turning off the main power switch (P. 6) is recommended when going out.

# Watching TV

Digital channels / Analogue channels / Radio



## 1 Turn on

The power lamp on the TV lights

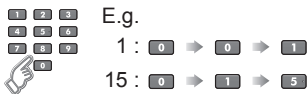
- If the remote control doesn't work, confirm that the mode is set to "TV".
- Press again to turn the screen off and put the TV into standby mode.
- To completely turn off the TV, unplug the power plug.
- You cannot turn the TV on when the main power switch (P. 6) is off.

## 2 Select Digital, Analogue or Radio



## 3 Select a channel

■ Enter a channel number



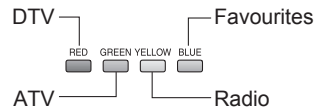
■ Move up or down a channel



■ Select with PR List

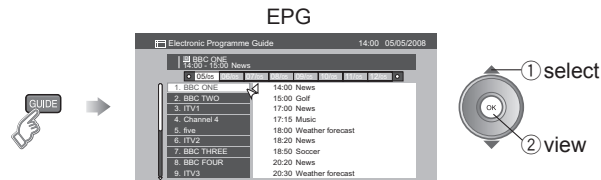


- Select DTV / ATV / Radio / Favourites
- Close PR List



- You can also display "Favourites" by pressing
- To edit favourite channels, refer to "Favourite Setting" (P. 37)

■ Select with EPG (Electronic Programme Guide) (P. 24)



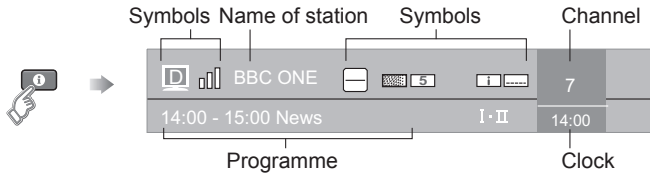
- Display only programmes which match your selected genre  
→ "Genre" (P. 25)

### Note

- Add a new station. → "Update Scan" (P. 37)
- Edit the "PR List" according to your liking. → "Edit PR" (P. 38)
- Some digital channels cannot be watched on this TV. → (P. 45)

## Display the programme information

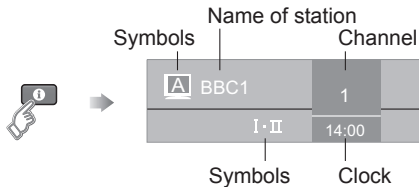
### ■ Digital channel / radio



- Whenever changing the channel, "Programme Information" is displayed.



### ■ Analogue channel



- Time is displayed only when teletext broadcasting can be received.

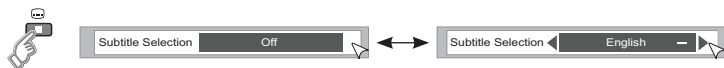
### ■ Symbols description

:Reception level	Red	Yellow	Green
	:Poor	:Acceptable	:Excellent
:TV programme	:Radio programme		
:TV programme with teletext information (P. 22)			
I·II : I: Audio in another language is not available. II: Other audio languages are available. (P. 21)			
:Pay-TV channel			
:Minimum viewing age limit of the programme. Set viewing age limit. → (P. 34)			
:Subtitles are available. (P. 21)			
:More information about the programme is available. →			
Dolby Digital : Dolby Digital signal is received. (P. 46)			
:Special audio track for the visually impaired. (P. 34)			
:Special audio track for the hearing impaired. (P. 34)			

## View subtitles (Digital channel only)

By default, the language set in “System Language” (P. 34) is automatically selected.

When not broadcast in that language, another broadcast language is automatically selected.



### ■ Switch to another language



👂 : Special subtitles for the hearing impaired

Undefined : When the subtitle's language cannot be identified

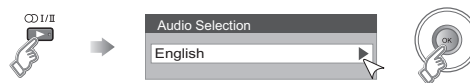
- The language that can be selected depends on the broadcast.
- When no subtitles are broadcasted, “No Subtitles” is displayed.

## Select audio language (Digital channel only)

By default, the language set in “System Language” (P. 34) is automatically selected.

When not broadcast in that language, another broadcast language is automatically selected.

### ■ Switch to another language



👁 : Special audio track for the visually impaired

👂 : Special audio track for the hearing impaired

Undefined: When the audio's language cannot be identified

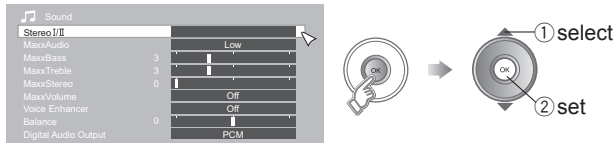
Dolby: Dolby Digital

- The language that can be selected depends on the broadcast.
- Please read “Dolby Digital” output from the DIGITAL AUDIO OUT terminal” (P. 46) before selecting “Dolby”.

## Change the sound mode (Analogue channel only)



2 **Select the sound mode**

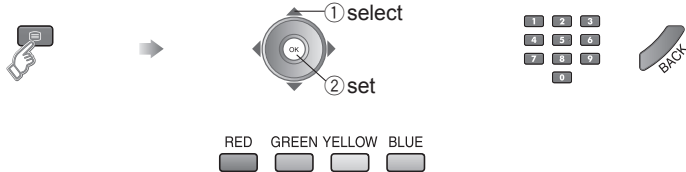


- When viewing a bilingual broadcast programme, you can select either Bilingual I (Sub I) or Bilingual II (Sub II) sound.
- If the stereo broadcast reception is poor, you can change to mono sound for clearer sound.
- This button can also be used when watching digital channels. For details, refer to “Select audio language” (P. 21)

## View teletext information (Digital channel only)

Enter the Teletext mode

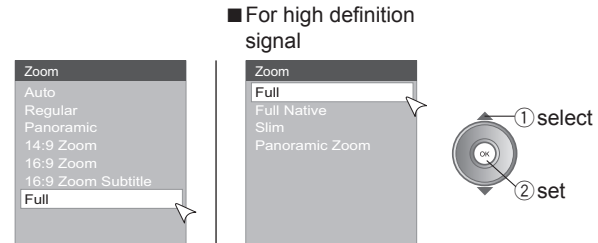
Operate according to the screen indications. You can use the buttons shown below.



## Change the aspect ratio



2 **Select the aspect ratio**



- When viewing high definition signal, the content of the menu will be changed.



Move the picture with ▲ or ▼ while this bar is displayed

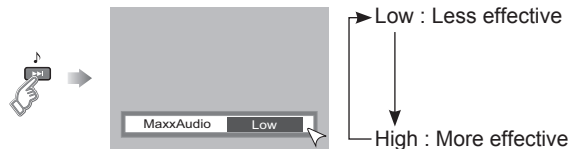
- “Full Native” → “What is Full Native?” (P. 48)
- When “Slim” is selected, a 4:3 image stretched out to 16:9 will revert back to its original aspect ratio with black bands.
- When “Panoramic Zoom” is selected, a 4:3 image with black bands will be stretched out to 16:9.
- Using “Auto” → “Auto in “Zoom”” (P. 45)

**Note**

- If an image is displayed in an aspect ratio that differs from its original aspect ratio, the image will be distorted or portions of the image will be cut off.
- When viewing “PC”, only “Full” or “Regular” can be selected.

## Change the MaxxAudio setting

MaxxAudio improves sound performance with four sound features (MaxxBass, MaxxTreble, MaxxStereo and MaxxVolume). You can select one of the two “MaxxAudio” settings.

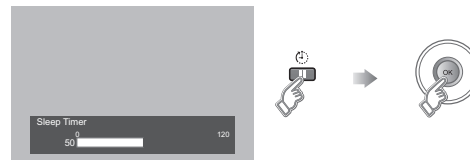


- You can also adjust the “MaxxAudio” settings in the “Sound” menu. (P. 33)
- “MaxxAudio” does not work with headphones.
- When the headphone is connected, “MaxxAudio” will not display even if you press the button.

## Set a time for the TV to turn off automatically



2 **Set the time**



- Each press of will increase the time by 10 minutes.
- Cancel → Set the time to “0”.
- Remaining time → Display this menu again.

# Using EPG (Electronic Programme Guide)

You can find a programme from an eight-day programme guide, check its information, and make a reservation.

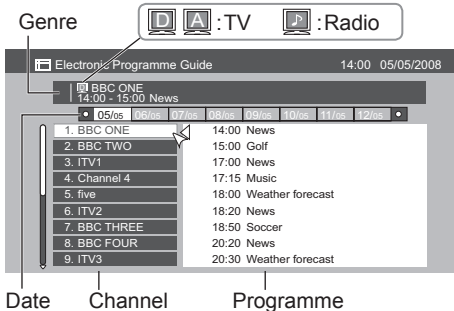


## 1 Display EPG



- It may take a while to receive data.

## 2 Find a programme



Select a Date

Select a channel / a programme

Previous Next



Note

- The channels and programme names shown in the illustrations here are examples only.

### ■ Check programme information



### ■ Close EPG



### Genre icon

General	Children's
Movie	Education
News	Leisure
Entertainment	Drama
Sports	

- The genre types that can be selected differ depending on the country selected in the "Country" (P. 13) setting.

### ■ Watch / listen to the programme



- When the clock is off → "Time Zone" (P. 34)
- Select the default language for programme name and programme information → "System Language" (P. 34)

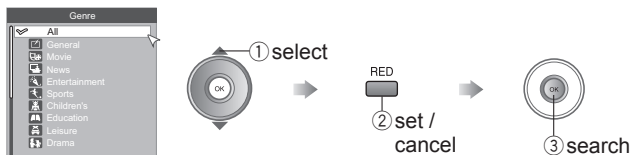
## Genre

Display only programmes which match your selected genre.

### 1 Display the genre list

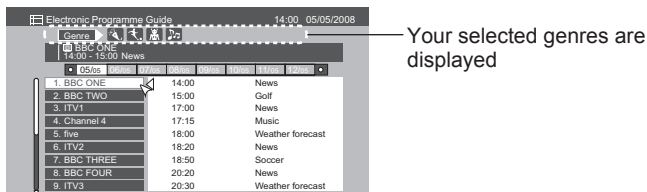


### 2 Select a genre



- More than one genre can be selected.

### 3 Find a programme



- Only programmes in the selected genre are displayed.

## Timer

Reserve a programme to watch. (One programme at a time)

To record a programme, refer to "Monitor out (EXT-1, EXT-2)" (P. 45).

### 1 Select a programme

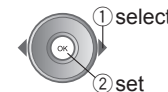
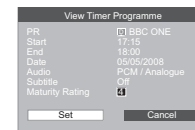
- Select a column (Channel / Programme)




- Select a channel / a programme



### 2 Set "Timer"



Set : Reserve a channel  
Cancel : Return to previous screen

- If there already is a programme reserved, "Over write Timer?" will display. To cancel and over write the existing reservation, select "Yes". When set, the  will display.

### ■ Confirm / Cancel a reservation

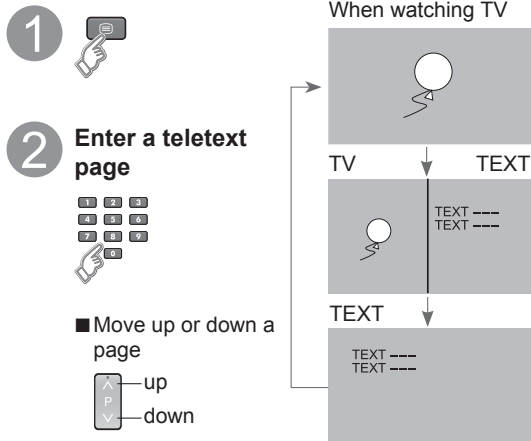


To cancel the reserved programme, select "Cancel Timer" then select "Yes". To keep the reservation, select "Confirm".

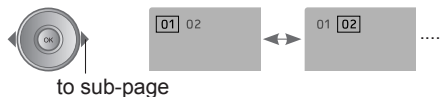
- You can also cancel by changing channels during timer.
- Message will display 60 seconds before the timer starts. When the timer starts during standby, the TV will turn on automatically and will return to standby when the end time comes.
- This function is disabled during when the main power switch is off.

# Viewing teletext (Analogue channel)

This TV can display TV broadcasts and teletext on the same analogue channel in two windows.



■ View sub-pages



**Note**

- To view teletext information on the digital channel, refer to page 22.

## Reveal hidden pages

Display hidden information (answers to quizzes, etc.)

1 + 2 =	1 + 2 = 3
2 x 3 =	2 x 3 = 6

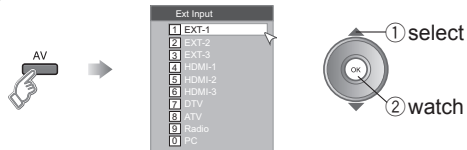
## To the index page

Returns to page "100" or a previously designated page

# Watching videos / DVDs



## 1 Select the video source

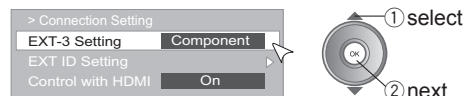


## 2 Operate the connected device and play a video

### ■ To return to TV channels

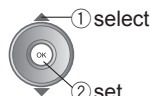
- Press the "DTV" button or select "DTV" from the "EXT Input" menu for digital channels.
- Press the "ATV" button or select "ATV" from the "EXT Input" menu for analogue channels.

## 2 Select "EXT-3 Setting", "EXT ID Setting" or "Control with HDMI"



### ■ EXT-3 Setting

Select "Component" or "Composite"



- Component** For component signal
- Composite** For composite signal

### ■ EXT ID Setting

Select terminal

Show the name list

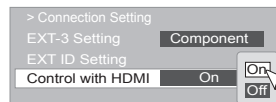
Select a name from the list



### ■ Control with HDMI

If you use a HDMI CEC compatible device, set this setting to "On".

- For more details → "What is "HDMI CEC"?" (P. 47)



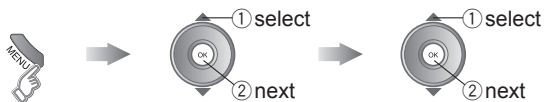
## Setting external terminals

### 1 Display the "Connection setting" menu

Display the menu bar

Select "System Setup"

Select "Connection setting"



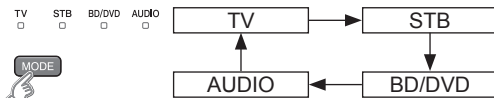
# Configuring your remote control

You can configure your TV's remote control to operate your other devices.

## Setting your remote



- 1 Turn on the device manually.
- 2 Switch the remote control mode to a mode that matches your device. Refer to the table on the right to select an appropriate mode.



- The indicator lights for 3 seconds each time the remote control is operated.

- 3 Find the remote control code for your device according to its brand from the “Remote control codes” list. (Refer to P. I - XII at the back of this manual.)

## 4 Set the remote control code.



Press and hold




Enter four digit number



Release the button

- The indicator will unlit for a second after entering the four digit remote control code number.

- 5 Point the remote control at your device, press  and confirm that your device is turned off. If your device does not respond, try entering another available code.

### Note

- If your device does not respond, try all the available codes for the device's brand.
- If none of the code works, or the brand is not listed, refer to “Using the search code function” (P. 29).

MODE	Applicable devices
TV	JVC brand only
STB	Cable Set Top Box, Cable/PVR Combination, Satellite Set Top Box, SAT/PVR Combination
BD/DVD	DVD, Blu-Ray DVD, HD DVD, DVD-R, Home Theater in Box, TV/DVD Combination
AUDIO	Amplifier, Receiver, Home Theater in Box

## Using the search code function

This function searches through the codes one by one, beginning from the first code in the list.

- 1 Turn on the device manually.
- 2 Switch the remote control mode to a mode that matches your device.

Press **MODE** to select the mode.

- 3 Activate the search code function.

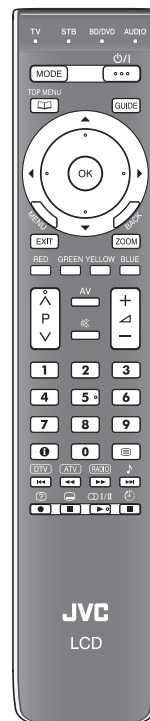
Hold down **⏻** (stand-by) and **⏪** until the mode indicator blinks.

- 4 Point the remote control at your device and press the stand-by button. If there is no response, try the next code by pressing **▶** and press the stand-by button again. Repeat the process until your device turns off.

- 5 Press **⏪** to register the code.

The code is now set. Confirm that the mode indicator goes out.

- If your TV's remote control still does not work even after using the search code function, use your device's own remote control. The TV's remote control is not guaranteed to work with all models, brands or operations.



## Button functions

### ■ Change the remote control mode

TV □ STB □ BD/DVD □ AUDIO □

**MODE**

### ■ Turn on/off the device

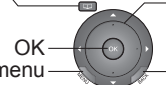


### ■ Navigate the menus

Display top menu

**TOP MENU** Select

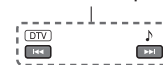
Display menu



**OK** Back to previous page

### ■ Playback / Record, etc.

Select a chapter



Reverse

Forward

Play

Stop

**⏸** Pause

**⏮** Record

### ■ Display on screen → Press "**ⓘ**"

### ■ Mute → Press "**⏸**"

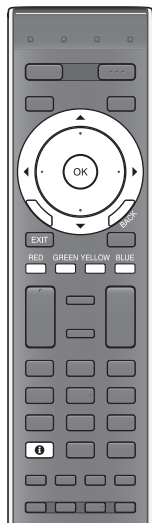
### ■ Volume → Press "**⏮**"

### ■ Select a surround mode → Press "**⏮**"

For STB, it displays Electric Programme Guide.

- Depending on your device, some functions may not be operable with this remote control.

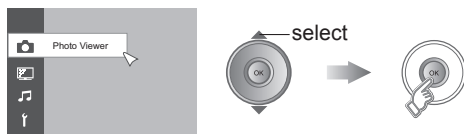
# Using the menu functions



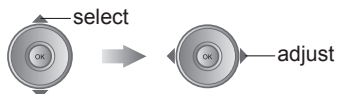
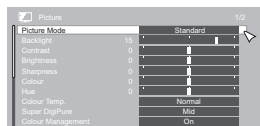
## 1 Display the menu bar



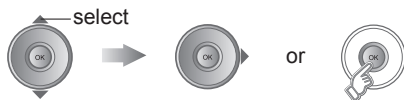
## 2 Display the desired menu



## 3 Change or adjust the setting



### ■ To enter an item's menu



- To hide or display the bottom area of the menu  
→
- Depending on the situation, some items will be displayed in gray colour and will not work. You will not be able to change their setting as well.

■ To the previous screen →

■ To Exit →

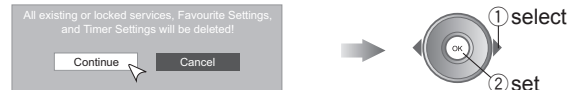
### ■ When entering the PIN code

When watching digital channels or changing DTV menu settings, it may be necessary for you to enter a PIN code. Once a PIN code has been entered, there is no need to enter it again until the TV is turned off.



- The default PIN code is "0000".
- You can set your own PIN code. → "Enter PIN code" (P. 34)
- It may be necessary for you to reenter a PIN code, when you reset "Maturity Rating" or "PR Lock" setting.

### ■ When a message with option selections appears



### ■ When an information message appears

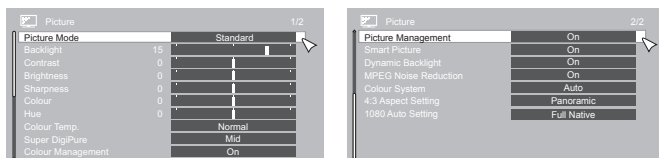


## Using the menu functions

## Photo viewer menu

You can view picture files and listen to music files that are stored in your USB device. For details refer to “Viewing / listening from USB devices (Picture / music)” (P. 40)

## Picture menu



- “Colour System” is available only for analogue channels.

## Picture Mode

Select preset picture setting according to the brightness of your room.

- Standard** in a room with standard brightness
- Soft** in a dark room
- Bright** in a fairly bright room
- Game** when playing video games
- User** Make adjustments to your liking

When “User” is selected, you can set the settings listed below.

Backlight	Backlight brightness (Darker ⇔ Brighter)
Contrast	Contrast (Lower ⇔ Higher)
Brightness	Brightness (Darker ⇔ Brighter)
Sharpness	Sharpness (Softer ⇔ Sharper)
Colour	Colour (Lighter ⇔ Deeper)
Hue	Tint (Reddish ⇔ Greenish) (NTSC only)
Colour Temp.	Colour temperature (Warm / Normal / Cool)

## Super DigiPure

For natural-looking outlines

- Off** Function is turned off
- Min** Less effective
- Mid** More effective
- Max** When noise appears

## Colour Management

For natural looking pictures

- On** Maintain a natural colour balance
- Off** Function is turned off

## Picture Management

Fix bright / dark pictures

- On** Make it easier to view bright / dark pictures
- Off** Function is turned off

## Smart Picture

Make it easier to view white areas

- On** Make it easier to view white areas
- Off** Function is turned off

- When “Bright” is set as a “Picture Mode”, this function becomes invalid.

## Dynamic Backlight

Make it easier to view black areas when the picture is dark

- On** Make it easier to view black areas
- Off** Function is turned off

## MPEG Noise Reduction

Reduce MPEG video noise

**On** Reduce MPEG video noise

**Off** Function is turned off

## Colour System

When there is no colour (On / Off)

Select the colour system

**PAL** Western Europe

**SECAM** Eastern Europe / France

**NTSC 3.58** USA 3.58 MHz\*

**NTSC 4.43** USA 4.43 MHz\*

**AUTO\*** When watching videos, etc.

\* Select in video mode only.

## 4:3 Aspect Setting

Set a default aspect ratio  
(Panoramic / Regular)

Select a default aspect ratio

**Panoramic**

**Regular**

16 : 9

4 : 3

## 1080 Auto Setting

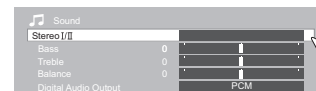
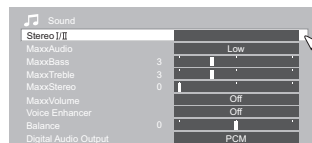
Select a default aspect ratio for Auto in  
“Zoom” (P. 45) when 1080i/p (1125i/p)  
signal is received

**Full**

**Full Native**



## Sound menu



- “Stereo I/II” is available only for analogue channels.
- When you connect the headphone, “MaxxAudio” (including the four sound features) will be replaced with “Bass” and “Treble” setting.
- When you connect the headphone, “Voice Enhancer” will not be displayed.
- Press the blue button to reset the settings (except for “Stereo I/II” and “Digital Audio Output” settings)

## Stereo I/II

Select stereo, monaural or language

**○** Monaural

**∞** Stereo

**I** SUB1

**II** SUB2

## Sound menu (continued)

MaxxAudio

MaxxAudio improves sound performance with four sound features (MaxxBass, MaxxTreble, MaxxStereo and MaxxVolume).

You can select one of the two "MaxxAudio" settings.

Low Less effective

High More effective

You can make further adjustments to the four sound features of the selected preset "MaxxAudio" to your liking.

**MaxxBass** Compensates low frequencies to widen the frequency band. (Weaker ⇔ Stronger)

**MaxxTreble** Compensates high frequencies to widen the frequency band. (Weaker ⇔ Stronger)

**MaxxStereo** Expands the stereo sound naturally. (Weaker ⇔ Stronger)

**MaxxVolume** Maintains a uniform sound volume even if the sound becomes loud suddenly (during commercial breaks etc.). (Weaker ⇔ Stronger)

- Adjustments made to the three sound features (MaxxBass, MaxxTreble and MaxxStereo) will be stored in the selected "MaxxAudio" setting.

Bass\*

Low tones

Weaker ⇔ Stronger

- \* Displays only when the headphone is connected.

Treble\*

High tones

Weaker ⇔ Stronger

- \* Displays only when the headphone is connected.

Voice Enhancer

Enhances the voice levels to make vocals or dialogues clearer when the volume is set to low level (On / Off)

Balance

Speaker balance

Left ⇔ Right

Digital Audio Output

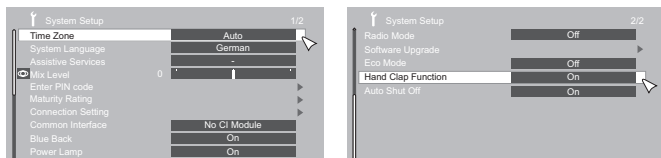
Dolby Digital signal or MPEG signal (When viewing Digital channels)

PCM Linear PCM signal

Dolby Digital Dolby Digital signal or MPEG signal (When viewing Digital channels)

- See "Dolby Digital" output from the DIGITAL AUDIO OUT terminal (P. 46) before setting.

## System Setup menu



- “Time Zone”, “Assistive Services”, “Maturity Rating”, and “Common Interface” is available only for digital channels.
- “Auto Shut Off” can only be active when “Hand Clap Function” is set to “on”.

### Time Zone

Set the time zone if the clock is off

### System Language

Set audio language, subtitle language, and EPG language. Languages will differ depending on selected country. (See page 1)

### Assistive Services

Automatically set hearing impaired or visually impaired



Function is turned off



For visually impaired



For hearing impaired



### Mix Level

Adjust the mix level of audio from the programme and special audio track for the visually impaired.

- To display mix level, select “Special audio track for the visually impaired” in “Assistive Services”.

### Enter PIN Code

Change PIN code

#### 1 Input the current code

This function is locked. Please enter PIN code.



- Default is “0000”.
- If you forget the code, input “0081”.

#### 2 Input a new code twice

Enter new PIN code



Confirmation



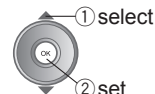
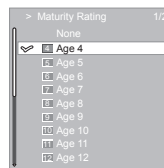
PIN code changed

OK



### Maturity Rating

Set the viewing age limit



- Only programmes with a maturity rating can be restricted.
- To watch the restricted programme, the PIN code must be entered.

- The maturity rating may differ depending on the “Country” setting.

### Connection Setting

For use with video players and other devices ▶ “Setting external terminals” (P. 27)

## Using the menu functions

## System Setup menu (continued)

## Common Interface

Set CAM (Conditional Access Module)

To watch pay-TV digital channels, use the CAM (Conditional Access Module) menu. This function can only be used when pay-TV can be received in your region.

When the CAM (Conditional Access Module) etc. is inserted after subscribing to the broadcasting company, this function is available. Press "OK" button to display the CAM (Conditional Access Module) menu and follow the instructions on the screen.

- "Watch pay-TV digital channels" ➔ (P. 7)
- If the CAM (Conditional Access Module) etc. is not inserted, "No CI Module" will be displayed and this function cannot be used.
- The content of the menu is different depending on the broadcasting company.  
➔ For details, consult your broadcasting company.
- The language shown in the menu may differ from the "Language" set for the TV.

## Blue Back

Displays a blue screen when the signal is weak or absent (On / Off)

On

Function is turned on

Off

Function is turned off

- To activate this function, power cycle the TV.

## Power Lamp

Power lamp setting

On

Function is turned on

Off

Function is turned off

## Radio Mode

Automatically turns off the backlight when listening to the radio channel. This function reduces the power consumption of this TV.

On

Function is turned on

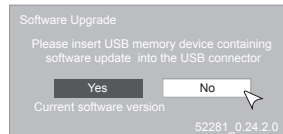
Off

Function is turned off

- When "Power Lamp" is set to "Off", the power lamp will lit when the backlight turns off.

## Software Upgrade

Software update using the USB terminal



When you select "Yes" after connecting the USB, the TV will enter standby then turns on again and the "Upgrade menu" is displayed.

- To exit "Upgrade menu", turn off the TV.

- You can also check your current version.
- You can update the software downloaded by Over air download (P. 48)

## Eco Mode

Automatically adjusts the picture contrast according to the brightness of your room (On / Off / Demo)

- For more details ➔ "What is "Eco Mode"?" (P. 47)

## Hand Clap Function

To operate the TV by clapping your hands, set "Hand Clap Function" to "On". "Auto Shut Off" can only be set only when "Hand Clap Function" is set to "On". For details, see "Operate TV by clapping your hands (Hand Clap Function)" (P. 17).

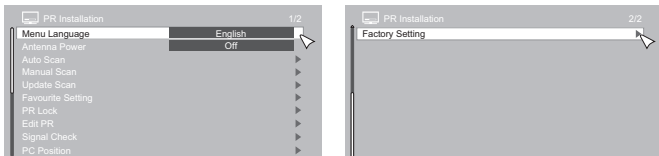
On

Function is turned on

Off

Function is turned off

## PR Installation menu



- “Signal Check” is available only for digital channels.

Menu Language

Select a language for on-screen menus

Antenna Power

Power supply for indoor aerial

When using an indoor aerial which requires external power, set “Antenna Power” to “On”. The TV will supply DC 5 V, 50 mA (max) from the aerial socket through the cable to the aerial.

- “Power supply for the indoor aerial” → (P. 8)

Auto Scan

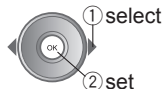
Scans and updates all receivable channels

### 1 Select “Continue”

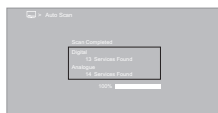
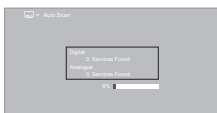
All existing or locked services, Favourite Settings, and Timer Settings will be deleted!

Continue

Cancel



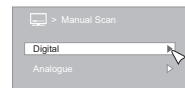
### 2 Start “Auto Scan”



Manual Scan

Manually scan and update a channel

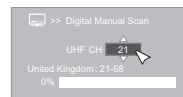
### Select “Digital” or “Analyogue”



### ■ Digital

#### 1 Select the CH number

- CH number → “Frequency table” → (P. 49)



#### 2 Start “Manual Scan”



or



#### 3 Store channel



# Using the menu functions

## PR Installation menu (continued)

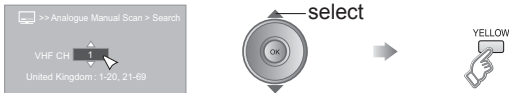
### ■ Analogue

#### 1 Set the "System" and "Band"



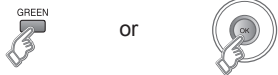
#### 2 Select the CH number

- CH number → "Frequency table" → (P. 49)



- To directly register selected channel, press "BLUE" button and then press "YELLOW" button.

#### 3 Start "Manual Scan"



#### 4 Fine tune channel



#### 5 Store channel



### Update Scan

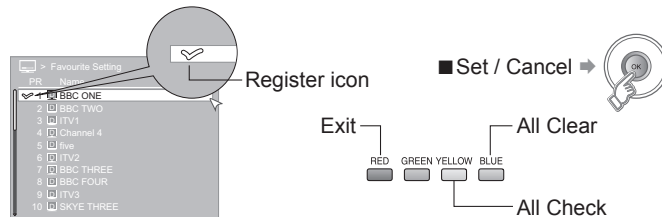
Updates new channels

#### Start "Update Scan"



### Favourite Setting

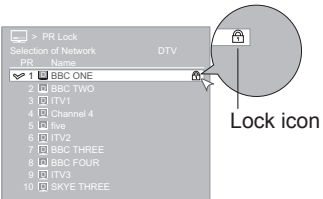
Register your favourite channel



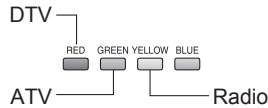
- To move through only your favourite channels.  
→ "Select with PR List" (P. 19)

## PR lock

Stops children from watching specific channels



■ Lock / Unlock →

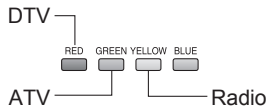
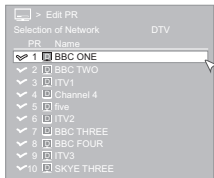


- To enable “Lock” function, turn the TV off and on again.
- To watch the locked channels, the PIN code must be entered.
  - ➔ “When entering the PIN code” (P. 30)
- Enter PIN code if needed
  - ➔ “When entering the PIN code” (P. 30)

## Edit PR

Registering channels and moving the channel or channel name for PR list

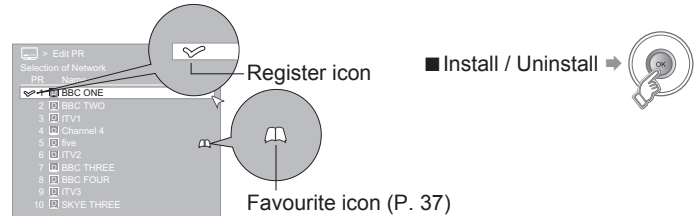
### 1 Select “Digital”, “Analogue” or “Radio”



### 2 Select a channel

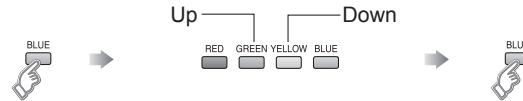


### ■ Register a channel to PR list

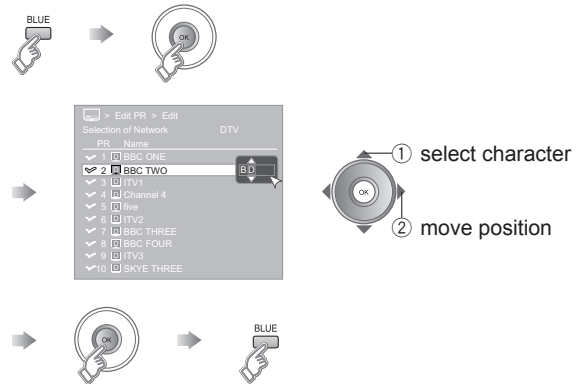


■ Install / Uninstall →

### ■ Move a channel



### ■ Edit channel name (Up to 5 characters)



## PR Installation menu (continued)

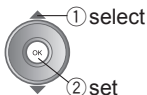
### Signal Check

Check the broadcast signal



Signal: **Poor** < **Acceptable** < **Excellent**

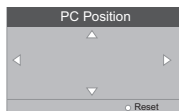
■ To check another broadcast channel



- The “Channel” is the frequency of the digital broadcasting. It differs from the channel number displayed on the TV.

### PC Position

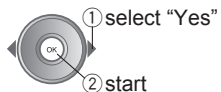
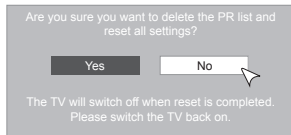
Adjust the position of the PC image



■ Reset

### Factory Setting

Initialise the settings



➔ Initial setting will start again.  
“Initial settings” (P. 13)

- Select “Yes” in “Factory Setting” (will enter standby), then turn on from standby and start the “Initial settings” (P. 13).

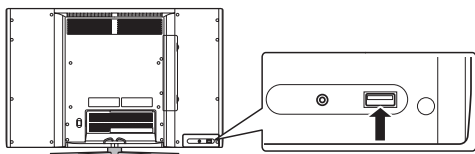
## Retuning menu

You can set the TV to restart the initial setting. For details refer to step 3 in “Initial setting” (P. 13)

# Viewing / listening from USB device Picture / Music

You can view photos and play music by connecting usb mass storage class devices.

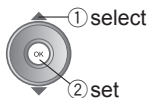
## 1 Connect USB device



"Photo Viewer" is displayed.

- If the "Photo Viewer" does not appear, select "Photo Viewer" from the menu bar.

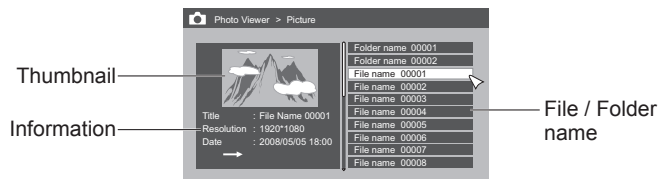
## 2 Select "Picture" or "Music"



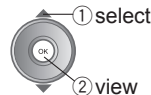
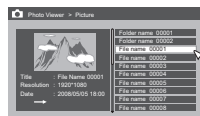
■ To exit Photo Viewer → **EXIT**

- Make sure to exit "Photo Viewer" before disconnecting the USB device.

## Picture

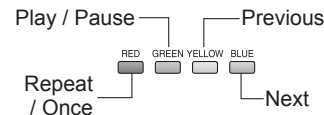
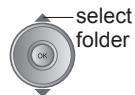
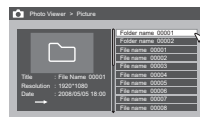


■ To view a photo

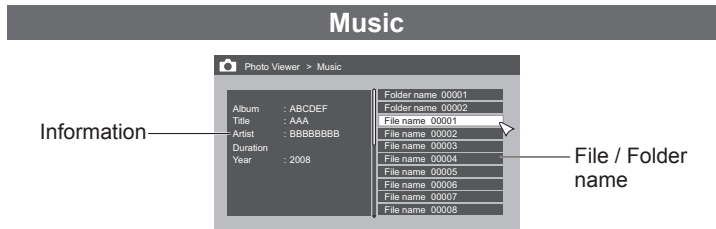


- "Zoom" function is available only when the size of the photo is bigger than the TV screen size. You can only zoom up to it's original size.
- When using the zoom function you can move the photo side to side and up and down by using .
- Depending on the file, the rotate information will be memorised.

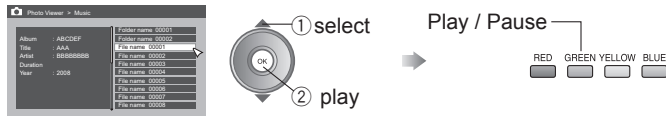
■ To view as slide show



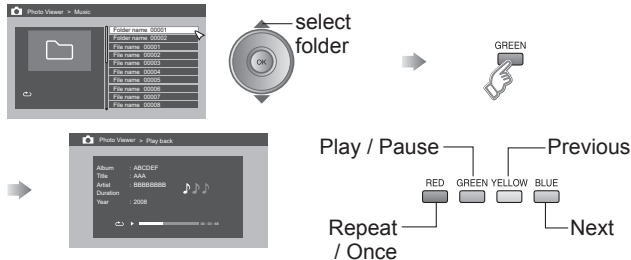
- The slide show can only be used for picture that are placed inside the folder



### ■ To play a song



### ■ To continuously play the songs



- To continuously play the songs, you must place the songs inside the folder.
- For supported formats, refer to “Supported music formats for Photo Viewer”. (P. 46)

## Slide show with background music

You can view slide show with background music by setting “To continuously play the songs” (P. 41) and “To view as slide show” (P. 40)

- To view slide show with background music, make sure to place the pictures and music inside the folder.

### 1 Start the background music

To start the background music, follow the instruction in “To continuously play the songs” (P. 41). Press the OK button to exit from the Playback screen.

### 2 Start the slide show

To start the slide show, follow the instruction in “To view as slide show” (P. 40).

#### Note

- Photo Viewer cannot be guaranteed to work with all USB Mass Storage Devices. It may take some time to display or it may not display correctly.
- The USB device that needs specific driver software is not supported.
- Supported file formats are “.jpg”, “.JPG”, “.mp3”, or “.MP3”.
- All your stored data should be backed up first as a precaution before connecting to the TV. Any loss or damage of data is not guaranteed.
- Depending on your stored file size, it can take extra time to display “Photo Viewer” page.
- When disconnecting the USB device, make sure to pull out gently.
- Folders with a “.” in their folder name will not be displayed.
- Does not support Progressive JPEG format.

# Troubleshooting

## ■ Analogue channels

### Severe noise or snow



- Is the TV connected correctly to the aerial?
- Change the direction of the aerial.

- Is the aerial or its cable damaged?
  - ➔ Consult your retailer
- Is the "Antenna Power" set to "On"?
  - ➔ "Antenna Power" (P. 36)

### Patterns, stripes or noise



- Is the aerial receiving interference from high-voltage power lines or wireless transmitters?

➔ Consult your retailer

- Are connected devices too close to the TV?
  - ➔ Place a minimum distance between the aerial and the cause of interference until no interference

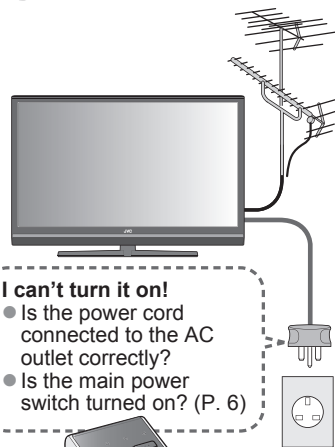
### Ghosting

(Doubling of images)



- Are you receiving interference from signals reflected off mountains or buildings?

➔ Adjust the direction of your aerial, or change to a good-quality directional aerial



### I can't turn it on!

- Is the power cord connected to the AC outlet correctly?
- Is the main power switch turned on? (P. 6)

### The remote control doesn't work!


- Are the batteries flat?
- Are you more than 7 meters away from the TV?
- Is the "MODE (TV, STB, BD/DVD, AUDIO)" set to "TV"?
- When viewing teletext, the TV menu bar does not appear.
- Depending on the stability of the signal, there may be a time lag when changing channels.



Problem	Actions
Remote control stops working	<ul style="list-style-type: none"> <li>● Unplug TV, several minutes later plug it in again.</li> </ul>
TV screen is frozen	<ul style="list-style-type: none"> <li>● Touch "MENU" (TV) and continuously press, "⏪", "⏩" (remote) with under 2 seconds of interval.</li> <li>● Unplug TV, several minutes later plug it in again.</li> </ul>
Forgot my PIN code!	<ul style="list-style-type: none"> <li>● The default PIN code is "0000". If you forget the numbers that you used to change the default PIN code, first input "0081" in the "Enter PIN code" and then register a new PIN code. (P. 34)</li> </ul>
Locked channels can be watched without inputting PIN code	<ul style="list-style-type: none"> <li>● Once the PIN code is input, the lock functions ("Lock" and "Maturity Rating") are released. If you want to use the lock functions again, turn the TV off and then turn it on again.</li> </ul>
The TV suddenly turned off	<ul style="list-style-type: none"> <li>● If the TV is turned on by using "Hand Clap Function" and no operation is made by a remote or a touch sensor for 3 hours the TV will automatically turn off (P. 18).</li> </ul>
Some functions do not work	<ul style="list-style-type: none"> <li>● It is not a malfunction. Depending on the situation, some function items will be displayed in gray colour and will not work. (P. 30)</li> </ul>

Basics

	Problem	Actions
Basics	Suddenly the power lamp blinks/hear a beep sound	<ul style="list-style-type: none"> <li>● The TV may have operated by detecting an ambient sound. For details, see “Things you should know” (P. 18).</li> </ul>
	Suddenly enters mute/unmute or turns on/off	
Screen	Aspect ratio changes unintentionally	<ul style="list-style-type: none"> <li>● Press <b>“ZOOM”</b> to return to your settings. (P. 22)</li> </ul>
	Black or white dots appear on the screen	<ul style="list-style-type: none"> <li>● LCD panels use fine dots (“pixels”) to display images. While more than 99.99% of these pixels function properly, a very small number of pixels may not light, or may light all the time. Please understand that this is not a malfunction.</li> </ul>
Picture	Poor picture quality	<ul style="list-style-type: none"> <li>● Change the “Picture Mode” setting. (P. 31)</li> <li>● Unnatural colour &gt;&gt;&gt; Adjust “Colour” and “Backlight”. (P. 31) Check your “Colour System”. (P. 32)</li> <li>● Noise &gt;&gt;&gt; Set to the following functions. Picture Mode: Standard (P. 31) Super DigiPure: Max (P. 31)</li> <li>● Dull picture &gt;&gt;&gt; Set to the following functions. Picture Mode: Bright (P. 31) Super DigiPure: Off (P. 31)</li> </ul>

	Problem	Actions
Picture	Strange picture when using an external device	<ul style="list-style-type: none"> <li>● If the top of the image is distorted, check the video signal quality itself.</li> <li>● If movement appears unnatural when receiving a signal from a DVD player etc., with 576p (625p), change the output setting of the external device to 576i (625i).</li> </ul>
Sound	Poor sound	<ul style="list-style-type: none"> <li>● Reset the “Sound” menu settings. (P. 32)</li> <li>● If receiving a poor signal in “Stereo/ I-II”, switch to “O” (monaural). (P. 32)</li> <li>● Change the broadcasting system using “Manual Scan”. (P. 36)</li> </ul>
HDMI	Wrong screen size	<ul style="list-style-type: none"> <li>● Read the user manual of the connected device and perform the following: <ul style="list-style-type: none"> <li>➔ Check if the output setting of the device is correct.</li> <li>➔ Change the signal format of the device to other format.</li> </ul> </li> </ul>
	No picture, no sound	<ul style="list-style-type: none"> <li>● Use the cable marked with HDMI logo.</li> </ul> 
	No sound	<ul style="list-style-type: none"> <li>● Check if the device is compliant with HDMI.</li> </ul>
	Green and distorted screen	<ul style="list-style-type: none"> <li>● Wait a little for the signal to stabilise when switching the signal format for an HDMI device.</li> </ul>

	Problem	Actions
Message	"Missing or weak signal"	<ul style="list-style-type: none"> <li>● Is the TV connected correctly to the aerial?</li> <li>● Change the direction of the indoor aerial.</li> <li>● Check digital channels signal with "Signal Check". (P. 39)</li> <li>● If you still cannot watch the digital channels after following the steps above, there may be a problem with your aerial or its cable. Or, the signal may be too weak. <ul style="list-style-type: none"> <li>➔ Consult your retailer.</li> </ul> </li> </ul>
	"The timer will start soon"	<ul style="list-style-type: none"> <li>● While watching TV, the message appears when a timer programme is about to start, indicating that the channel will be switched.</li> </ul>
	"Software Update"	<ul style="list-style-type: none"> <li>● You can update the software downloaded by Over air download (P. 48)</li> </ul>
DTV	No picture, no sound	<ul style="list-style-type: none"> <li>● Some digital channels cannot be watched on this TV. (P. 45)</li> </ul>
	When the clock is off time	<ul style="list-style-type: none"> <li>● Change the "Time Zone" setting. (P. 34)</li> </ul>

	Problem	Actions
Photo Viewer	Album / Title / Artist / Year does not display or display correctly (Music)	<ul style="list-style-type: none"> <li>● Make sure to use ID3v1 tag.</li> </ul>
	Duration time does not display or display correctly (Music)	<ul style="list-style-type: none"> <li>● Duration time cannot be calculated for MP3 that contains the artwork.</li> <li>● The duration time is calculated from the bit rate and the file size, the time displayed may differ from the actual playback time. Higher the compression rate and lower the bit rate / sample rate is these error margins will be greater.</li> </ul>

This is not a malfunction

- When the TV is turned on, it will take approx. 18 seconds to properly produce picture and sound.
- When the TV is turned on by turning the main power switch on or by plugging to the AC outlet, it will take approx. 15 seconds until the TV is ready to receive any commands.

# Technical information

## If you accidentally cut the power cord

Attach a new plug following the steps below. If in doubt, contact your local retailer.

### Important

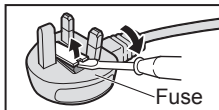
- Never connect to the larger terminal marked with an “E”, the safety earth symbol “⊥” or coloured green or green-and-yellow.
- The wires in the mains lead on this product are coloured with the following code:
  - Blue: Neutral wire (connect to the black terminal, or one marked “N”)
  - Brown: Live wire (connect to the red terminal, or one marked “L”)

## Change the fuse in the plug

Open the plug as illustrated on the right.

- When replacing the fuse, always use a correctly rated and approved type and re-fit the fuse cover when finished.

If in doubt, contact your local retailer.



## Auto in “Zoom”

When “Auto” is selected in Zoom, the aspect ratio will turn to the ratio obtained from the information the TV received.

- The aspect ratio will turn to the ratio obtained from WSS (Wide Screen Identification Signal), video signal, or control signal of the external devices. Without receiving the aspect information, it will be the setting in “4:3 Aspect Setting”. (P. 32)

## Monitor out (EXT-1, EXT-2)

- To record Digital / Analogue channels to external devices  
Connect the external device to EXT-1 or EXT-2.  
Select a programme you want to record and video / audio will output as an analogue signal.  
Analogue channel video / audio will output from EXT-1 when analogue channel or EXT-1 is selected.
- To record video and audio from another external devices  
Connect the external device to EXT-1 or EXT-2.  
Select an external device you want to record and video / audio will output as an analogue signal.

### Note

- Set the aspect ratio to “Regular” or “Full”. The aspect ratio will not be displayed correctly during recording or playback.
- You cannot output from EXT-1 if you switch to EXT-1 from digital channel.
- 1080p (1125p) signal is not supported, because they cannot be converted to composite signal.

## Digital channels that cannot be watched on this TV

If a digital channel service uses new formats (such as DVB-H or MPEG4, etc.), or MHP, it cannot be watched even though the channel name appears. If the channel is selected, the picture will not appear and audio cannot be heard.

\* This TV can receive digital terrestrial broadcasting (DVB-T) in the following countries. Digital terrestrial broadcasting (DVB-T) reception in other countries is not guaranteed.

Austria, Denmark, Finland, France, United Kingdom, Germany, Italy, Netherlands, Spain, Sweden, Switzerland, Czech Republic, Belgium

## “Dolby Digital” output from the DIGITAL AUDIO OUT terminal

Some digital channels are broadcasted with “Dolby Digital” signals. In these cases, “Dolby Digital” signals can be output from the DIGITAL AUDIO OUT terminal.

1. Connect an audio system with a “Dolby Digital” decoder to the DIGITAL AUDIO OUT terminal.  
→ “Connecting external devices” (P. 10)
2. Change the “Digital Audio Output” setting from “PCM” to “Dolby Digital”.  
→ “Digital Audio Output” (P. 33)
  - Even if “Dolby Digital” is set, “MPEG” signals will be output by a channel that is not broadcast with “Dolby Digital” signals.
  - Even if “Dolby Digital” is set, “Linear PCM” signals will be output from the sources other than digital channels.
  - Set the audio system so that it is compatible with “Dolby Digital”, “MPEG” and “Linear PCM”. (For detail, refer to the audio system instruction manual.) If the audio system does not have a MPEG decoder, change the setting to “PCM” when listening the sound of a channel that is not broadcast with “Dolby Digital” signals.
  - Do not change the setting to “Dolby Digital” from “PCM” when the audio system does not have a “Dolby Digital” decoder.
  - If you have a noise or no sound problem, change the setting to “PCM” from “Dolby Digital”.

## Supported music formats for Photo Viewer

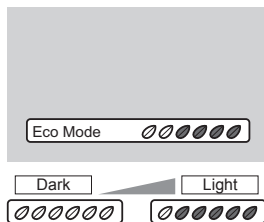
- Sample rate
  - 32, 44.1, and 48 kHz (MPEG-1 Audio Layer-3)
  - 16, 22.05, and 24 kHz (MPEG-2 Audio Layer-3)
- Resolution  
16 bit
- Channels  
monaural, stereo
- Bit rate  
32, 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, and 320 kbps
  - Some files may not be able to playback depending on the combination between the sample rate and the bit rate.

### What is “Eco Mode”?

You can adjust this TV so that the screen automatically adjusts to the optimum contrast of light and dark according to the brightness of your room. This function reduces eyestrain and the power consumption of this TV.

- Set “Eco Mode” ➔ “Eco Mode” (P. 35)
- Make sure not to block the Eco Sensor on front of the TV (P. 5)
- To fully reduce eyestrain and the power consumption of this TV. Set to the following functions.  
Eco Mode: On or Demo (P. 35)  
Smart Picture: On (P. 31)

- Using “Demo” in “Eco Mode”, you can display the effect of the “Eco Mode” on the screen



### What is “HDMI CEC”?

HDMI CEC (Consumer Electronics Control) allows the TV to connect and control multiple HDMI CEC enabled devices with a single remote. CEC (Consumer Electronics Control) is an optional protocol used in HDMI.

- HDMI CEC on this TV is compliant with “High-Definition Multimedia Interface Specification”.
  - The TV does not support HDMI CEC functions that are not listed below.
  - The TV does not guarantee to support use of all HDMI CEC enabled devices.
  - Devices that are not enabled to HDMI CEC cannot be controlled with this TV.
  - Control the TV using the HDMI CEC enabled device
    - Turn the TV on and switch to the video source of the operating device.
    - Switch to the video source of the operating device.
  - Control the HDMI CEC enabled device using the TV
    - Turn off the operating device by turning off the TV.
- \* Some device may not support this function. For more details refer to the device’s manual.

- Send status of the TV to the HDMI CEC enabled device
  - When switching the TV’s external input or channel.
  - When switching the TV’s menu language.

\* Information regarding behaviour of the device when status is received, refer to the external device’s manual.

Turning On / Off HDMI CEC:

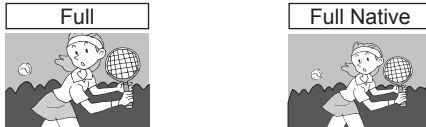
- Set HDMI CEC ➔ “Control with HDMI” (P. 27)
- \* Factory default setting is “On”.

If “HDMI CEC” does not work correctly:

- When HDMI CEC enabled device is connected to EXT-1 or EXT-2 with SCART cable and EXT-4, EXT-5, EXT-6 with HDMI cable, you may not be able to control TV’s external input. To solve the problem set “HDMI CEC” to “Off”.
- When displaying the “Photo Viewer”, the connected HDMI CEC enabled device will not operate correctly.

## What is “Full Native”?

- With the full HD LCD display and “Full Native”, you can enjoy full native HD resolution of 1920 x 1080. It exposes flaws in the video that were hidden when viewing on “Full”.



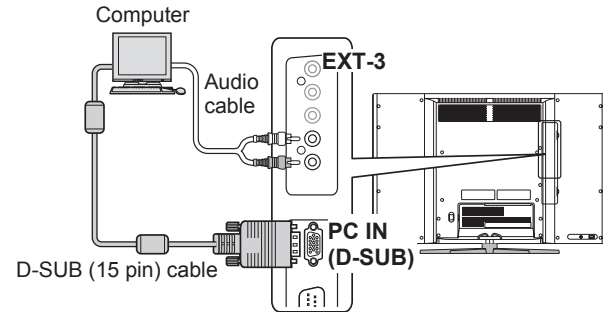
- \* The illustrations are emphasised to make clear differences between “Full” and “Full Native”.
- Dark bar or noise may appear at the edges of the screen when viewing in “Full Native” for some videos. This is resulted from the signal itself, not due to TV malfunction.
- “Full Native” cannot be selected in 720p signal.

## Software downloaded by Over air download

If new software is available, the TV will automatically download the tuner software. If a confirmation message appears, Follow the on-screen instructions to perform the settings.

- The software download function works only when the TV is off (standby).
- This function is disabled during when the main power switch is off.
- If you have selected “Later”, you can update the software from “Software Upgrade” in “System Setup”.

## Connect a computer



Resolution	640 x 480 (VGA)	1024 x 768 (XGA)	1360 x 768 (WXGA)
Vertical frequency (Hz)	60.0	60.0	60.0

### Note

- Use cable with ferrite cores and no longer than of 3m to avoid electromagnetic disturbance.
- If the signal doesn't appear, check that the vertical frequency on the PC is set to “60Hz”.
- Adjust the position of PC image ➔ “PC Position” (P. 39)

# Frequency table

To use the “Manual Scan” function (P. 36), find the “CH” number corresponding to the frequency from this table.

## Digital channels

	Austria Switzerland Czech Republic Germany Denmark Netherlands Sweden Belgium Other	Italy	Spain Finland	France	United Kingdom
CH	Frequency				
CH 04		177.5			
CH 05	177.5	186		178.75	
CH 06	184.5	194.5		186.75	
CH 07	191.5	203.5		194.75	
CH 08	198.5	212.5		202.75	
CH 09	205.5	219.5		210.75	
CH 10	212.5	226.5		218.75	
CH 11	219.5				
CH 12	226.5				
CH 21	474	474	474	474	474
CH 22	482	482	482	482	482
CH 23	490	490	490	490	490
CH 24	498	498	498	498	498
CH 25	506	506	506	506	506
CH 26	514	514	514	514	514
CH 27	522	522	522	522	522
CH 28	530	530	530	530	530
CH 29	538	538	538	538	538
CH 30	546	546	546	546	546
CH 31	554	554	554	554	554
CH 32	562	562	562	562	562
CH 33	570	570	570	570	570
CH 34	578	578	578	578	578
CH 35	586	586	586	586	586
CH 36	594	594	594	594	594
CH 37	602	602	602	602	602
CH 38	610	610	610	610	610
CH 39	618	618	618	618	618
CH 40	626	626	626	626	626
CH 41	634	634	634	634	634
CH 42	642	642	642	642	642

	Austria Switzerland Czech Republic Germany Denmark Netherlands Sweden Belgium Other	Italy	Spain Finland	France	United Kingdom
CH	Frequency				
CH 43	650	650	650	650	650
CH 44	658	658	658	658	658
CH 45	666	666	666	666	666
CH 46	674	674	674	674	674
CH 47	682	682	682	682	682
CH 48	690	690	690	690	690
CH 49	698	698	698	698	698
CH 50	706	706	706	706	706
CH 51	714	714	714	714	714
CH 52	722	722	722	722	722
CH 53	730	730	730	730	730
CH 54	738	738	738	738	738
CH 55	746	746	746	746	746
CH 56	754	754	754	754	754
CH 57	762	762	762	762	762
CH 58	770	770	770	770	770
CH 59	778	778	778	778	778
CH 60	786	786	786	786	786
CH 61	794	794	794	794	794
CH 62	802	802	802	802	802
CH 63	810	810	810	810	810
CH 64	818	818	818	818	818
CH 65	826	826	826	826	826
CH 66	834	834	834	834	834
CH 67	842	842	842	842	842
CH 68	850	850	850	850	850
CH 69	858	858	858	858	858

## Analogue channels VHF/UHF

	Austria Switzerland Germany Denmark Spain Finland Netherlands Sweden Belgium Other	Italy	United Kingdom	Czech Republic	France
CH	Frequency				
CH 01	45.25	53.75	45.75	49.75	
CH 02	48.25	62.25	53.75	59.25	55.75
CH 03	55.25	82.25	61.75	77.25	60.5
CH 04	62.25	175.25	175.25	85.25	63.75
CH 05	175.25	183.25	183.25	93.25	176
CH 06	182.25	192.25	191.25	175.25	184
CH 07	189.25	201.25	199.25	183.25	192
CH 08	196.25	210.25	207.25	191.25	200
CH 09	203.25	217.25	215.25	199.25	208
CH 10	210.25	224.25	223.25	207.25	216
CH 11	217.25	45.25	231.25	215.25	
CH 12	224.25	48.25	239.25	223.25	
CH 13		55.25	247.75		
CH 14		62.25	255.25		
CH 15		175.25	263.25		
CH 16		182.25	271.25		
CH 17		189.25	279.25		
CH 18		196.25	287.25		223.25
CH 19		203.25	295.25		231.25
CH 20		210.25	303.25		239.25

	Austria Switzerland Germany Denmark Spain Finland Netherlands Sweden Belgium Other	Italy United Kingdom Czech Republic France
CH	Frequency	
CH 21		471.25
CH 22		479.25
CH 23		487.25
CH 24		495.25
CH 25		503.25
CH 26		511.25
CH 27		519.25
CH 28		527.25
CH 29		535.25
CH 30		543.25
CH 31		551.25
CH 32		559.25
CH 33		567.25
CH 34		575.25
CH 35		583.25
CH 36		591.25
CH 37		599.25
CH 38		607.25
CH 39		615.25
CH 40		623.25
CH 41		631.25
CH 42		639.25
CH 43		647.25
CH 44		655.25
CH 45		663.25
CH 46		671.25
CH 47		679.25
CH 48		687.25
CH 49		695.25
CH 50		703.25

	Austria Switzerland Germany Denmark Spain Finland Netherlands Sweden Belgium Other	Italy United Kingdom Czech Republic France
CH	Frequency	
CH 51		711.25
CH 52		719.25
CH 53		727.25
CH 54		735.25
CH 55		743.25
CH 56		751.25
CH 57		759.25
CH 58		767.25
CH 59		775.25
CH 60		783.25
CH 61		791.25
CH 62		799.25
CH 63		807.25
CH 64		815.25
CH 65		823.25
CH 66		831.25
CH 67		839.25
CH 68		847.25
CH 69		855.25

## Frequency table

## CATV

	Austria Switzerland Germany Denmark Spain Finland Netherlands Sweden Belgium Other	Italy United Kingdom Czech Republic	France
CH	Frequency		
CH 01	105.25		92.75
CH 02	112.25		100.75
CH 03	119.25		108.75
CH 04	126.25		116.75
CH 05	133.25		128.75
CH 06	140.25		140.75
CH 07	147.25		152.75
CH 08	154.25		164.75
CH 09	161.25		176.75
CH 10	168.25		188.75
CH 11	231.25		200.75
CH 12	238.25		212.75
CH 13	245.25		224.75
CH 14	252.25		236.75
CH 15	259.25		248.75
CH 16	266.25		260.75
CH 17	273.25		272.75
CH 18	280.25		284.75
CH 19	287.25		296.75
CH 20	294.25		
CH 21	303.25		303.25
CH 22	311.25		311.25
CH 23	319.25		319.25
CH 24	327.25		327.25
CH 25	335.25		335.25
CH 26	343.25		343.25
CH 27	351.25		351.25
CH 28	359.25		359.25
CH 29	367.25		367.25
CH 30	375.25		375.25
CH 31	383.25		383.25
CH 32	391.25		391.25

	Austria Switzerland Germany Denmark Spain Finland Netherlands Sweden Belgium Other	Italy United Kingdom Czech Republic	France
CH	Frequency		
CH 33		399.25	399.25
CH 34		407.25	407.25
CH 35		415.25	415.25
CH 36		423.25	423.25
CH 37		431.25	431.25
CH 38		439.25	439.25
CH 39		447.25	447.25
CH 40		455.25	455.25
CH 41		463.25	463.25
CH 42		69.25	69.25
CH 43		76.25	76.25
CH 44		83.25	83.25
CH 45		90.25	90.25
CH 46		97.25	97.25
CH 47		104.25	104.25

# Specifications

Model	LT-37DV1BJ	LT-42DV1BJ
Broadcasting systems	CCIR I / B / G / D / K / L (See "Technical information", P. 45) Digital: DVB-T 7 MHz / 8 MHz	
Colour systems	TV broadcast : PAL, SECAM External input : PAL, SECAM, NTSC 3.58/4.43 MHz	
Channels and frequencies	Digital: Frequency: 174-230 MHz / 470-862 MHz Analogue: Frequency: 47-470 MHz (VHF) / 470-862 MHz (UHF) E2-E12 / E21-E69, F2-F10 / F21-F69, IR A-IR J, ITALY A-H / H+1 / H+2, R1-R12 / S1-S41, X / Y / Z / Z+1 / Z+2, French cable channels	
Sound-multiplex systems	NICAM (I / B / G / D / K / L), A2 (B / G / D / K)	
Teletext systems	Digital: MHEG-5 UK Profile Analogue: FLOF (Fastext), TOP, WST (World Standard System)	
Power requirements	AC 220 V - 240 V, 50 Hz	
Audio output (Rated power output)	10 W + 10 W	
Speakers	(4.5 cm x 13 cm) x 2	
Power consumption [standby]	177 W [0.5 W]	225 W [0.5 W]
Screen size (visible area size measured diagonally)	94 cm	107 cm
Connectors	HDMI x 3, RCA x 5 (component video or composite video, audio L/R), Euroconnector (SCART) x 2, Optical connector (digital audio output) x 1, USB x 1, D-SUB (15 pins) x 1 For details ➔ (P. 11, 40, 48)	
Headphone jack	Stereo mini jack (3.5 mm in diameter) x 1	
Dimensions (W x H x D: mm) [without stand]	874.6 x 612.8 x 278.6 [874.6 x 569.6 x 69]	985.2 x 675.2 x 278.6 [985.2 x 632 x 69]
Weights [without stand]	15.5 kg [13.9 kg]	18.1 kg [16.5 kg]
Accessories	(See "Accessories", P. 4)	

- A CAM (Conditional Access Module) for watching pay-TV digital channels can be installed. (P. 7)
- DC power can be supplied to the indoor aerial. (P. 8)
- When you turn off the main power switch, you can reduce the power consumption to zero. (P. 6)
- We may change the design and specifications without notice.

## Remote control codes (P. 28)

Cable Set Top Box							
ABC	0014	Humax	0660, 2142	Optus	0276	Samsung	0000, 0702, 0779, 1060, 1410, 1666, 2015
ADB	1230, 1269	Jerrold	0014, 0276	Orange	0817		
Auna	1230	LG Alps	0779	Pace	1060, 1068, 1577	Scientific Atlanta	0477
Austar	0276	Macab	0817	Pacific	1410	StarHub	0276
Bell & Howell	0014	Madritel	1230	Panasonic	0000	Supercable	0276
Birmingham Cable Communications	0276	Magnavox	0014	Paragon	0000	Telewest	1068
Cable & Wireless	1068	Memorex	0000	Philips	0290, 0817	Toshiba	0000
Fosgate	0276	Motorola	0276	Pioneer	0023	US Electronics	0276
France Telecom	0817	Nokia	1569	Pulsar	0000	Virgin Media	1060, 1068
Freebox	1482, 1976	Noos	0817	Runco	0000	Visiopass	0817
General Instrument	0014, 0276	NTL	0276, 1060, 1068	Sagem	0817	Zenith	0000
		Ono	1068	Salora	0000		

Cable/PVR Combination							
Freebox	1482, 1976	Humax	2142	Nokia	1569	StarHub	1927

Satellite Set Top Box							
@sat	1300	Apro	1672	Axitronic	1626	Canal Satellite	0292, 0853, 1339, 1853
@Sky	1334	Arcon	1075	B@ytronic	1412	Canal+	0853
ABsat	0713	Arcus	1143	Balmet	1457	CGV	1413, 1567
Acoustic Solutions	1284	Armstrong	0200	Beko	0455	Cherokee	1480
ADB	0642, 1367, 1418, 1473, 1491	Armon	1300	Best Buy	1993	Chess	0114, 0713, 1334, 1626
Akai	0200	Asat	0200	Big Sat	1457	Chill	1718
Akura	1705	ASCI	0114, 1334	Black Diamond	1284	CityCom	0299, 0607, 0658, 0818, 1075, 1176, 1232
Alba	0455, 0613, 0713, 1284, 1659	ASLF	0713	Blaupunkt	0173	Clark	0613
Allegro	0635	AssCom	0853	Blue Sky	0713	Classic	1672
Allsat	0200	Aston	1261	Boca	0132, 0713, 1232, 1366, 1579	Clatronic	1413
Alltech	0713	Astra	0607, 0713	Bodner & Mann	1480	Clemens Kamphus	0396
Allvision	1232, 1334, 1412	Astratec	1743	Boston	1251	Cobra	0396
Amitronica	0713	Astro	0173, 0501, 0607, 0613, 0658, 1099, 1100, 1113, 1273, 1816	Brainwave	0658, 1294, 1672	Colombia	0132
Ampere	0132, 0396	Atsat	1300	British Sky Broadcasting	0847, 1175, 1662	Comag	0132, 1232, 1366, 1412, 1413, 1579
Amstrad	0132, 0396, 0501, 0713, 0847, 0885, 1113, 1175, 1693	AtSky	1334	Broco	0713	Comsat	1413
Anglo	0713	Audioline	1672	BskyB	0847, 1175, 1662	Condor	0607
Ankaro	0713	Audioton	0613	BT	1296	Connexions	0396
Anitron	0613	Austar	0642	Bubu Sat	0713	Conrad	0132, 0501, 0607
Apollo	0455	Avalon	0396	Bush	1284, 1291, 1645, 1672, 1743	Coship	1457, 1672
		Axil	1413, 1457, 1659, 1993	Cambridge	0501	Crown	1284
		Axis	1111	Canal Digital	0853	Cryptovision	0455

Cyrus	0200	Fenner	0713			Listo	1626
D-box	0723, 1114, 1127	Ferguson	0455, 1291, 1743	Humax	1176, 1427, 1675, 1743, 1788, 1808, 1882, 1915, 2144, 2408	Lodos	1284
Daewoo	0713, 1111, 1296, 1743	Fidelity	0501	Huth	0132, 0607, 1075, 1143	Logik	1284
DAK	1993	Finlandia	0455	Hyundai	0758, 1075, 1159	Logix	1075
Dantax	1626	Finlux	0455, 1626	i-CAN	1367	Lorenzen	0132, 0299, 0607, 1161, 1294, 1579
Deltasat	1075	Flair Mate	0713	ID Digital	1176	Luxor	0501
Digatron	1294	Fly Com	1457	ILLUSION sat	1557	M Electronic	0818
Digenius	0299, 1161	FMD	0114, 1413, 1457	Imperial	1195, 1197, 1334, 1429, 1672	M vision	1557
Digitality	0607, 1334	Free Wave Technology	1743	Inno Hit	1626	Manata	0132, 0713
Digifusion	1581, 1645, 1743	Freecom	0501	International	0132	Manhattan	0455, 1300
Digihome	1284	FTEmaximal	0713	Interstar	1214	Marantz	0200
DigiLogic	1284	Fuba	0173, 0299, 0396, 1161, 1214, 1251	Intervision	0607	Maspro	0173, 0713
DigiQuest	1300, 1457, 1473	Galaxis	0853, 1111, 1557	Inves	1743, 1993	Matsui	0173, 1284, 1591, 1626, 1743
DigiSat	1232	Gardiner	0818	iotronic	1413	Max	0607
Digisky	1457	Garnet	1075	ITT Nokia	0455, 0723	Maxim	1705
Digitrade	1659	GbSAT	1214	Jaeger	1334	Maximum	1075, 1334
Dijam	1296	Gecco	1273, 1412	K-SAT	0713	Mediabox	0292, 0853
DiPro	1367, 1543	General Satellite	1176	Kamm	0713	Mediacom	1206
DirecTV	0099	Globo	1251, 1334, 1412, 1429, 1626	Kaon	1300	Mediasat	0292, 0501, 0853, 1339
Discovery	1480	GOD Digital	0200	KaTelco	1111	Medion	0132, 0299, 0713, 1075, 1232, 1334, 1412, 1626
Distratel	0885, 1283, 1704, 1705	Golden Interstar	1283		0114, 0173, 0200, 0480, 0504, 0613, 0658, 0713, 0818, 1416, 1561, 1567, 1717	Medison	0713
DMT	1075	Goodmans	0455, 1284, 1291, 1591, 1705	Kathrein		Mega	0200
DNT	0200, 0396	Granada	0455	Kenwood	0853	Metronic	0132, 0613, 0713, 0818, 0885, 1283, 1334, 1375, 1413, 1659, 1704, 1705
Dream Multimedia	1237	Grandin	1626	Key West	0132	Metz	0173
Durabrand	1284	Grocos	1457	Kiton	0114	MiCO	1993
Echostar	0167, 0396, 0455, 0610, 0713, 0853, 1200, 1323, 1409, 1418, 1473	Grundig	0173, 0847, 0853, 1284, 1291, 1330, 1659, 1672	Konig	0607	Micro	0501, 0607, 0613, 0713, 1294
Einhell	0132, 0501, 0713	Haensel & Gretel	0132	KR	0613	Micro Elektronik	0713
Elap	0713, 1413, 1567	Hama	1567	Kreiling	0114, 0658, 1480, 1626	Micro Technology	0713
Elsat	0713	Hanseatic	1099, 1100	Kreismeyer	0173	Micromaxx	0299
Elta	0200, 1659	Hauppauge	1294, 1672	Kyostar	0613	Microstar	1075
eMTech	1214	HB	1214	L&S Electronic	0132, 1334	Microtec	0713
Engel	0713, 1251, 1993	HDT	1159	Labgear	1296	Mitsubishi	0455
EP Sat	0455	Heliocom	0607	LaSAT	0132, 0173, 0299, 0607	Morgan's	0132, 0200, 0713, 1232, 1412
Eurieult	0885	Helium	0607	Legend	1718	Motorola	1473
Eurocrypt	0455	Hirschmann	0173, 0299, 0396, 0501, 0607, 1111, 1232, 1412	Leiko	1626	Multibroadcast	0642
EuroLine	1251	Hitachi	0455, 1284	Lemon	1334	Multichoice	0642
Europa	0501, 0607	HNE	0132	Lenco	0607, 0713	Mustek	1659
Europhon	0132, 0299, 0607	Hornet	1300	Lenson	0501	Mx Onda	1659
Eurosky	0114, 0132, 0299, 0501, 0607	Houston	0396	LG	1075		
Eurostar	0607, 0818			Lifesat	0132, 0299, 0713		
Eutelsat	0713						
Exator	0613						

## Satellite Set Top Box

Myryad	0200	Patriot	0132	Satec	0713	Star Sat	1214
Mysat	0713	peeKTon	1457, 1659, 1993	Satelco	1232	Starland	0713
MySky	1693, 1848, 1850	Philips	0099, 0133, 0173, 0200,	Satplus	1100	Starlite	0200
Neom	1993		0292, 0455, 0613, 0818,	Schaecke	0613	Stream	1848
NEOTION	1334		0853, 1114, 1499, 1543,	Schaub Lorenz	1214	Stream System	1300
Netgem	1322		1672, 1743	Schneider	1206, 1251	Strong	0132, 0613, 0713, 0820,
Netsat	0099		Phonotrend	1200	0132, 0504, 0607, 0885,		0853, 1159, 1284, 1409,
Neuf TV	1322	Pilotime	1339	1075, 1111, 1334, 1412,	1473, 1626, 1765		
Neuhaus	0501, 0607, 0713	Pino	1334	Schwaiger	1457	Sumin	1412
Neuling	0132, 1232	Pioneer	0292, 0329, 0853, 1308	Scientific Atlanta	1980	Sunny	1300
Neusat	0713	Planet	0396	SCS	0299	Sunsat	0713
Neveling	1161	PMB	0713, 1611	Sedea Electronique	0132, 1206, 1283, 1626	Sunstar	0132, 0642
Nevir	1659	Polytron	0396	Seeltech	1993	Sunstech	1993
Newton	0396	Portland	1296	Seemann	0396	Supermax	1143
NextlWave	1143	Preisner	0132, 0396, 1113, 1366	SEG	0114, 1075, 1251, 1626,	Supratech	1413
Nikko	0200, 0713, 0723	Premier	0292, 0723, 1429	Serino	1993	Systec	1334
Noda Electronic	0885, 1704, 1705	Primacom	1111	Septimo	0885, 1375	TaeKwang	0733
Nokia	0455, 0723, 0751, 0853,	Proline	1284, 1659	Serd	1412	Tahnnon	1704
	1023, 1127, 1223, 1310,	Promax	0455	Servimat	0610	Tantec	0455
	1723	Quelle	0299, 0607	ServiSat	1611	Tatung	0455
	Nordmende	0455	Radiola	0200	Servisat	0713, 1251	TBoston
Octagon	0613	Radix	0396, 1113	Siemens	0173, 0396, 1334, 1429	Tecatel	1200
OctalTV	1294	Rainbow	0613	Silva	0299	Technical	1626
Oggle	1705	Rebox	1214	Skantin	0713	Technika	1705
Onn	1284	Regal	1251	SKR	0713	TechniSat	0114, 0396, 0455, 0501,
Opentel	1232, 1412	RFT	0200	SKT	0132		1099, 1100, 1195, 1197,
Optex	0114, 0713, 1283, 1413,	Roadstar	0713, 0853	SKY	0099, 0847, 0856, 1175,		1322
Orbis	1611, 1626	Rollmaster	1413	SKY Italia	1662, 1693, 1848, 1850	Technomate	1283, 1610
	1232, 1334, 1412	Rover	0713	Sky XL	0853, 1693, 1848	Technosat	1143
Orbitech	0114, 0501, 1099, 1100,	Rownsonic	1567	Sky+	1251, 1412	Technosonic	1672
P/Sat	1195, 1197	S-ZWO	1207	Skymaster	1175	Technotrend	1429
	1232	SAB	1251, 1300	Skymax	0713, 1075, 1200, 1334,	Technowelt	0132, 0607
Pace	0200, 0241, 0329, 0455,	Saba	0607, 0820, 0885	Skyplus	1409, 1545, 1567, 1611	Techwood	0114, 1284, 1626
	0847, 0853, 1175, 1323,	Sabre	0455	SkySat	0200, 1413	Telasat	0607
	1423, 1693, 1717, 1848,	Sagem	0820, 1114, 1690	Skyvision	1232, 1334, 1412	TELE System	0396, 1251, 1409, 1611
	1850	Samsung	0773, 0853, 1206, 1243,	SL	0114, 0501, 0607, 0713	Teleciel	0613
Pacific	1284, 1375	Sansui	1458, 1570, 1916	SM Electronic	1334	TeleClub	1367
Packard Bell	1111	Sanyo	1545	Smart	0132, 0299, 1294, 1672	Teleka	0396, 0501, 0607, 0613
Palcom	0299, 1161, 1409	SAT	1626	Sony	0713, 1200, 1409	Telesat	0607
Palladium	0396, 0501	Sat Control	0501	SR	0132, 0396, 0713, 1113,	Telestar	0114, 0501, 1099, 1100,
Pallsat	0501	Sat Partner	1300		1232, 1273, 1404, 1413	1610, 1626, 1672	
Panasonic	0455, 0847, 1304	Sat Team	0501, 0613	0282, 0292, 0455, 0847,	Teletech	0114	
Panda	0173, 0455, 0607	SAT+	0713	0853, 1558	Televess	0132, 0455, 0501, 1214,	
Pantech	0747	Satcom	1409	0132		1300, 1334	
Pass	1567		0607				

Telewire	1232	Trevi	1251	Ventana	0200	Wisi	0132, 0173, 0299, 0396,
Tempo	1143	Triasat	0501	Vestel	0114, 1251		0455, 0501, 0607, 1232
Tevion	0713, 1409, 1672, 1705			VH Sat	0299	Worldsat	0114, 1214, 1251, 1480,
Thomson	0292, 0455, 0607, 0713,	Triax	0114, 0132, 0200, 0396,	Viola Digital	1672		1543
	0820, 0847, 0853, 1046,		0501, 0713, 0853, 1113,	Vision	1626	Xsat	0713, 0847, 1214, 1323
	1175, 1291, 1534, 1543,		1251, 1291, 1296, 1413,	Visionic	1283	Xtreme	1300
	1662	TT-micro	1611, 1626	VisionNet	1557	Yakumo	1413
Thorn	0455	Turnsat	0713	Visiosat	0114, 0713, 1413, 1457,	Yamada	1718, 1993
Tiny	1672	Twinner	0713, 1611		1718	Yes	1887
Tioko	0132	Unisat	0132, 0200	Vitecom	1413		0114, 0504, 0818, 1075,
Tividi	1429	United	1251	Viva	0856	Zehnder	1232, 1251, 1334, 1412,
Tokai	0200			VTech	0818		1413
Tonna	0455, 0501, 0713, 1611	Universum	0114, 0173, 0299, 0607,	Wetekom	0501	Zenith	0856, 0635
Topfield	1206, 1207, 1208, 1545		1099, 1251	Wewa	0455	Zeta Technology	0200
Toshiba	0455, 1284	Van Hunen	1161	Wharfedale	1284	Zodiac	0396, 0613
TPS	0820	Vaova	1993				
		Variosat	0173				

#### SAT/PVR Combination

@sat	1300	Gecco	1412	Nokia	1023, 1310	SKY Italia	1848
Allvision	1412	Globo	1412	Opentel	1412	Sky XL	1412
Amstrad	1175	HDT	1159	Orbis	1412	Skymaster	1075, 1545
Atsat	1300	Hirschmann	1412	Pace	1175, 1423, 1693, 1850	Skyplus	1334, 1412
B@ytronic	1412	Humax	1176, 1427, 1675, 1788,	Panasonic	1304	Stream System	1300
British Sky Broadcasting	1175		1808, 2144	Philips	0099	Sumin	1412
BskyB	1175, 1662	Huth	1075	Pilotime	1339	Sunny	1300
Bush	1645	Hyundai	1075, 1159	Rebox	1214	TechniSat	1195, 1197
Canal Satellite	1339	Kathrein	0658, 1561	Samsung	1206, 1570	Telestar	1195, 1197
Comag	1412	LG	1075	Sansui	1545	Thomson	1175, 1534, 1662
Digifusion	1645	Maximum	1334	Sat Control	1300	Topfield	1206, 1545
DigiQuest	1300	Mediacom	1206	Schneider	1206	Xtreme	1300
DMT	1075	Medion	1412	Schwaiger	1075, 1412	Yamada	1993
Dream Multimedia	1237	Microstar	1075	Sedea Electronique	1206	Zehnder	1075, 1412
Echostar	0610	Morgan's	1412	Serd	1412		
eMTech	1214	MySky	1693, 1848, 1850	SKY	1175, 1662, 1693, 1848,		
GbSAT	1214	NEOTION	1334		1850		

#### DVD

3D LAB	0539			All-Tel	1451	Arena	1115
4Kus	1158	Akai	0788, 0790, 0898, 1115,	Altacom	1224	Aria	0893
A-Trend	0714		1233, 1557, 1695	Amitech	0770, 0850	Arianet	0818, 0893
Acoustic Solutions	0713, 0730, 1316	AKI	1005	Amoi	0852	Aristona	0539, 0646
AEG	0675, 0770, 0788, 0790,	Akura	0898, 1051, 1140, 1233,			ASCOMTEC	1923
	1233, 1434, 1923		1367	Amstrad	0713, 0770, 0790, 1151,	Asono	1224
AFK	1051, 1152, 1923			AMW	1367	Astro	1513
Airis	0672, 1005, 1224, 1321	Alba	0539, 0672, 0695, 0699,	Ansonic	0774, 0831, 1316	Atacom	1224
Aiwa	0533		0713, 0730, 0783, 1140,	Apex Digital	0672, 1004	Audiola	1660
		Alize	1530, 1695, 1994				
			1151				

DVD																					
Audiosonic	1923	Clayton	0713	Durabrand	0675, 0713, 0831, 1502	Grundig	0539, 0551, 0651, 0670, 0695, 0713, 0775, 0790, 1004, 1036, 1128, 1436, 1465, 1643, 1695, 1730, 1832														
Audix	0713	CMX	1643	E:max	1233, 1321, 1643																
Autovox	0713	Coby	0730, 0852	eBench	1152																
Auvio	0843	Codex	1233	ECC	0730																
Axion	0730	Commax	1321	Eclipse	0723, 0751																
Basic Line	0713, 1994	Conia	0852	Elfunk	0713, 0850																
Baze	0898	Contel	0788	Elin	0770																
BBK	1224, 1452	Continental Edison	0831, 0872	Ellion	0850, 1421																
Beep	1163	Crown	0713, 0770, 1115	Elta	0672, 0770, 0788, 0850, 1051, 1115, 1151, 1233																
Bellagio	1004	Cybercom	0831	Eltax	1233, 1321																
Belson	1923	CyberHome	0714, 0816, 1502	Emerson	0591																
Berthen	1643	Cytron	0651, 0774, 1347, 1423	Energy Sistem	1513																
Binatone	1923	D-Vision	1115, 1367	Enterprise	0591																
Black Diamond	0713	Daenyx	0872	EuroLine	0675, 0788, 1115, 1233, 1643																
Blu:sens	1233, 1321	Daewoo	0714, 0770, 0870, 0872, 1436, 1483, 2155	Excello	1513																
Blue Nova International	1321	Dalton	0786, 1036	Fenner	0651																
Blue Sky	0651, 0672, 0695, 0713, 0790, 0843, 1423	Dansai	0770, 0783, 1115, 1695	Ferguson	0651, 0695, 0713, 0898, 1695, 1730																
Boghe	1004, 1221	Dantax	0539, 0713, 0723, 0790	Finlux	0591, 0672, 0741, 0751, 0770, 0783																
Boman	0783, 0898, 1005	Daytek	0872, 1005	Fintec	1530																
Bose	2023	Dayton	0872, 1158	Firstline	0713, 0843, 0869, 1530																
Brainwave	0770, 1115	DCE	0831	Fisher	0670																
Brandt	0503, 0551, 0651	Decca	0770, 1115	Funai	0675, 0695																
Broksonic	0695	Denon	0490, 0634, 1634, 2258	Gateway	1158																
Bush	0672, 0699, 0713, 0723, 0730, 0733, 0831, 0879, 1051, 1128, 1140, 1367, 1419, 1436, 1483, 1695, 1832	Denver	0672, 0699, 0788, 0898, 1316, 1321, 1923	Germatic	1051																
		Denzel	0665	Giec	1221																
		Desay	0843	Global Link	1224																
		Dgtec	0672	Global Solutions	0768																
		Diamond	0651	Global Sphere	1152																
Cambridge Audio	0751, 1109	Digihome	0713	Go Video	0783, 0869																
Campomatic Digital	1051	DigiLogic	0713	Gold	1513																
Cat	0699, 0786, 0789, 1421, 1923	Digital i	0893	GoldStar	0591, 0741																
CCE	0730	Digitech	1832	Goodmans	0651, 0713, 0723, 0730, 0783, 0790, 0879, 1004, 1140, 1152, 1221, 1316, 1423, 1530, 1730, 1923, 2014																
cello	1730	DiK	0831																		
Centrum	0675, 0713, 0779, 0789, 1005, 1227, 1923, 1994	Dinamic	0788																		
		Disney	0831																		
CGV	0733, 0751, 1115	DK Digital	0831, 1557, 1660																		
Cinea	0841	DMTech	0783, 1271																		
Cinetec	0713, 0872	Dragon	0831																		
cineULTRA	0699	DreamX	1151																		
CJ Digital	1643	DSE	1730																		
Classic	0730, 1730	Dual	0651, 0665, 0713, 0730, 0779, 0783, 0790, 0831, 1436, 1530																		
Clatronic	0672, 0675, 0788, 0818, 1233, 1434, 1923																				
Grundig	0770, 0790, 0831, 1316, 0770	H & B	0713, 0818, 0841, 0850, 1233, 1421	Hanseatic	0741, 0783, 0790																
						Harman/Kardon	0702														
								Haus	0786												
										HCM	0788										
												HE	0730, 1163, 1484, 1923								
														Henss	0713						
																HiMAX	0843				
																		Hitachi	0573, 0664, 0665, 0713, 1664, 1835, 1994		
																				Hiteker	0672, 1923
Home Electronics	0730, 0770																				
		Home Tech Industries	1224, 1643, 1923																		
				HotMedia	1152																
						Humax	0646														
								HYD	1233												
										Hyundai	0850, 1660										
												IlSonic	1508								
														Im@ge	1513						
																Ingelen	0788				
																		Inno Hit	0713		
Irradio	0869, 1115, 1224, 1233																				
		IRT	0783																		
				ISP	0695																
						Jamo	1036														
								Jaton	0665												
										JDB	0730										
												JDV	1367								
														Jeken	0699						
																JMB	0695				
																		JVC	0503, 0539, 0623, 1164, 1241, 1275, 1550, 1597, 1602, 1701, 1860, 1863, 1940, 2365		
jWin	1049, 1051																				

Kansas Technologies	1233, 1530	Mark	0713	Norcent	1923	Pye	0539, 0646
Karcher	0783, 1367	Marquant	0770	Nordmende	0774, 0831, 1316	QONIX	0790, 1051
Kendo	0672, 0699, 0713, 0831, 1483	Mastec	1221, 1434	Noriko	0752	Quartek	1648
Kennex	0713, 0770, 0898	Matsui	0651, 0672, 0695, 0713, 1004, 1316, 1695, 1730	Okano	0752	Radionette	0741, 0869, 1906, 2024
Kenwood	0490, 0534	Maxim	0713, 0872, 1367	Olidata	0672	Radiotone	0713
KeyPlug	1643	MBO	0730, 1730	Onkyo	0503, 0627, 1769	Raite	0665
Kiiri	0770	MDS	0713	Oopla	1158	RCA	0522
King Vision	1513, 1643	Mecotek	0770	Optim	0843	REC	0490
Kingavon	0818	Medialine	1271	Optimus	0525	Redstar	0763, 0770, 0788, 0898, 1394, 1923
Kiss	0665, 0841, 1523	Mediencom	0751	Orava	0818	Relisys	1347
Konka	0711, 0719, 0720, 0721	Medion	0630, 0651, 0741, 0774, 0783, 0831, 0879, 1006, 1347, 1423	Orbit	0872, 1643	Reoc	0752, 0768
Kotron	0879	MEI	0790	Orion	0695, 0713, 1128, 1233, 1419, 1434, 1695	Revoy	0699, 0841
Kreisen	1421	Memorex	0831	Oritron	0651	Richmond	1233
KXD	1321, 1923	Messo	1513	Ormond	0713	Roadstar	0672, 0699, 0713, 0730, 0818, 0879, 0898, 1051, 1227, 1434, 1832, 2014
Lawson	0768	Metz	0525, 0571, 0713, 1994	P&B	0818, 1451	Ronin	0710, 0872
Leiker	0872, 1513	MiCO	0723, 0751, 1221, 1223	Pacific	0713, 0768, 0790, 0831	Rotel	0623
Lenco	0651, 0699, 0713, 0770, 0774, 1513	Micromaxx	0695, 1695	Packard Bell	0831, 1321, 1648	Rownsonic	0789
Lenoxx	2014	Micromedia	0503, 0539	Palladium	0695, 0713, 0779, 1906	Saba	0551, 0651
Lenoxx Sound	2014	Micromega	0539, 1005	Panasonic	0490, 1010, 1011, 1579, 1641, 1661, 1834, 1905, 1908	Saivod	0831, 1367
Lexia	0699, 0768	Microsoft	0522, 1708, 2083	Panda	0789	Salora	0741
LG	0591, 0741, 0790, 0869, 1544, 1906	Microstar	0831	Paramount Pictures	0779	Sampo	1321
Lifetec	0651, 0831, 1347	Minato	0752	peeKTON	0898, 1224, 1484	Samsung	0199, 0490, 0573, 0744, 1075, 1635, 1932
Limit	0768	Minax	0713	Philco	0733	Sansui	0695, 0751, 1316
LiteOn	1158, 1416	Minoka	0770, 1115	Philips	0503, 0539, 0646, 0675, 1158, 1340, 1354, 1813, 2056, 2084	Sanyo	0670, 0713
LM	1643	Mirror	0752, 0879	Phonotrend	0699	Scan	0850
Lodos	0713	Mitsubishi	0713	Pioneer	0142, 0525, 0571, 0631, 1571, 1965	ScanMagic	0730, 1730
Loewe	0539, 0741	Mizuda	0770, 0818, 1451	PJ	1923	ScanSonic	1695
Logik	0713	Monyka	0665	Play It	1643	Schaub Lorenz	0770, 0788, 1115, 1151, 1643
Logix	0783	MPX	0843	Plu2	0850	Schneider	0539, 0646, 0651, 0713, 0774, 0779, 0783, 0788, 0790, 0831, 0869, 1227, 1367
Loomax	1487	Mustek	0730, 1730	Powerpoint	0872, 1005	Schoentech	0713
Luker	1367	Muvid	1643	Prinz	0831	Schwaiger	0752
Lumatron	0695, 0713, 0741, 1115, 1321, 1832	Mx Onda	0651, 0751, 1223	Prism	0831	Scientific Labs	0768
Lunatron	0741	Mystral	0831	ProCaster	1004, 1513	Scott	0651, 0672, 1005, 1036, 1233, 1394, 1423, 1484, 1923
Luxman	0573	NAD	0741	Proline	0651, 0672, 0710, 1004, 1316, 1483	Seeltech	1224, 1451, 1513, 1643
Luxor	0713, 1004, 1695, 1730	Naiko	0770, 1004, 1367	Proscan	0522	SEG	0665, 0713, 0763, 0872, 1483, 1530, 1994
Magnat	1923	Narita	1367	Proson	0713		
Magnavox	0503, 0539, 0646, 0675, 0713, 1140	Neom	1643	Prosonic	0699, 0752		
Magnex	0723	Neovia	1271	ProVision	0699, 0730, 1163, 1321, 1484, 1923		
Magnum	1436, 2014	Neufunk	0665				
Manhattan	0713	Nevir	0672, 0770, 0831, 1484				
Marantz	0539	Nexius	0790				
		Nikkai	1923				
		Nintaus	1051				

## DVD

Shanghai	0672	Star Clusters	1152, 1227	Telefunken	0551	Venturer	0790, 1769
Sharp	0630, 0675, 0713, 0752, 0869, 1419, 2015, 2024, 2250	Starlogic	1005	Teletech	0713, 0768	Vestel	0713, 1530, 1994
		Starmedia	0818, 1005, 1224	Tensai	0651, 0770	Victor	1241
Sherwood	0741	Strato	1152, 1382	Tesco	1316	Vivax	1513
Siemssen	1382	Strong	0713	Tevion	0651, 0898, 1036, 1227, 1382, 1483, 1660, 1730, 1923, 2014	Voxson	0730, 0831
Sigmatek	1005, 1224	Sunkai	0770, 0850		Theta Digital	0571	Waitec
Siltex	1224	Sunstech	0831, 1513	Thomson	0522, 0551	Waltham	0713, 1530
Silva	0788, 0898	Sunwood	0788, 0898	Tokai	0665, 0788, 0790, 0898, 1233, 1557	Welkin	0831
Silva Schneider	0741, 0831, 0869, 0898, 1367	Supervision	0768, 1152	Tom-Tec	0789	Wellington	0713
SilverCrest	0131, 1152	Supratech	0893, 1513	Top Suxess	1224	Welltech	1221
Sinudyne	1221, 1316	SVA	0672, 0752	Toshiba	0503, 0695, 1045, 1459, 1510, 1769, 2006	Weltstar	0713
Sistemas	0672, 1513	Sylvania	0675	Tosumi	1367	Wesder	0699
Skantic	0539, 0713	Symphonic	0675	TProgress	0752	Wharfedale	0713, 0751, 0752, 0790, 1115, 1832, 1835
Skymaster	0730, 0768	Synn	0768	TRANS-continentes	0831, 0872, 1233, 1321	Wilson	0831, 1233
Skyworth	0898	Tamashi	1394	Tredex	0843	Windsor	0713
Sliding	1115	Tandberg	0713, 1695, 1994	Trevi	0831	Windy Sam	0573
SM Electronic	0730, 0768, 1152	Tangent	1321	TSM	1224	Woxter	1005, 1151, 1224
Smart	0713	Targa	1227, 1906	TVE	0713	X-Waves	1513
Sonic Blue	0783	Tatung	0770, 1695	Umax	1151	Xbox	0522, 1708, 2083
Sony	0533, 0864, 1033, 1070, 1516, 1533, 1536, 1633, 1824, 1934, 1981, 2020, 2043, 2132	Tchibo	0741	United	0675, 0695, 0699, 0713, 0730, 0788, 1115, 1152, 1233, 1367, 1643, 1832	Xenius	0790
		TCM	0741, 0790	Universum	0591, 0713, 0741, 0779, 0790, 0869, 1227, 1530, 1913	Xoro	1183, 1221
		Teac	0741, 0768, 1227	Uptek	0763	Yakumo	1004
		Tec	0898			Yamada	0872, 1004, 1151, 1158, 1416
Sound Color	1233	Technica	1367, 1695			Yamaha	0490, 0539, 0646
Soundmaster	0768	Technics	0490, 1905			Yamakawa	0665, 0710, 0872
Soundwave	0713, 0783	Technika	0770, 0831, 1115, 1316, 1695			Yukai	0730, 1730
Standard	0651, 0768, 0788, 0831, 0898	Technisson	1115			Zenith	0503, 0591
		Technosonic	1051, 1115, 1367				
		Techwood	0713, 1530, 1994				

## Blu-Ray DVD

Denon	2258	Panasonic	1641	Pioneer	0142	Sharp	2250
JVC	2365	Philips	2084	Samsung	0199	Sony	1516
LG	0741						

## HD DVD

Integra	1769	Microsoft	1708, 2083	RCA	1769	Xbox	1708, 2083
LG	0741	Onkyo	1769	Toshiba	1769		

**DVD-R**

4Kus	1158	Fintec	1530	Mastec	1221	Sinudyne	1221
Airis	1321	Firstline	1530	Matsui	1730	Sony	1033, 1070, 2132
Alba	1530	Funai	0675	MBO	1730	Star Clusters	1227
Aristona	0646	Gateway	1158	Medion	1347	Sylvania	0675
Boghe	1221	Giec	1221	MiCO	0751, 1221	Tangent	1321
Bush	1436	Goodmans	1221, 1530, 1730	Mustek	1730	Targa	1227
Cat	1421	GPX	0741	Oopla	1158	Teac	1227
cello	1730	Grundig	1436, 1730	Packard Bell	1321	Techwood	1530
Centrum	1227	H & B	1421	Panasonic	0490, 1010, 1011, 1579	Tevion	1227, 1730
Classic	1730	Hoeher	1530	Philips	0646, 1158	Thomson	0551
Commax	1321	Humax	0646	Pioneer	0631	Toshiba	1510
CyberHome	1502	JVC	1164, 1275, 1597	ProVision	1321	Universum	1227, 1530
Cytron	1347	Kansas Technologies	1530	Pye	0646	Vestel	1530
Dayton	1158	Kreisen	1421	Quartek	1648	Waltham	1530
DSE	1730	KXD	1321	Relisys	1347	Welltech	1221
Dual	1530	LG	0741	Roadstar	1227	Xoro	1221
Durabrand	1502	Lifetec	1347	Samsung	1635	Yamada	1158, 1416
E:max	1321	LiteOn	1158, 1416	ScanMagic	1730	Yamaha	0646
Ellion	1421	Loewe	0741	Schneider	0646, 1227	Yukai	1730
Eltax	1321	Lumatron	1321	SEG	1530		
Ferguson	1730	Luxor	1730	Sharp	1419		

**Home Theater in Box**

AEG	0790, 1923	Finlux	0672	Marquant	0770	Schneider	0779, 0790
AFK	1923	Goodmans	0790, 1923, 2014	MEI	0790	Scott	1923
Akai	0790	Grundig	1832	Metz	1994	SEG	1994
Amstrad	0790	Grunkel	0790	Nexius	0790	Sharp	2015, 2024
ASCOMTEC	1923	Hanseatic	0790	Nikkai	1923	Sony	1033, 1070, 1824, 1934, 1981, 2020, 2043, 2132
Audiosonic	1923	Harman/Kardon	0702	Norcent	1923	Tandberg	1994
Basic Line	1994	HE	1923	Onkyo	0627	Targa	1906
Belson	1923	Hitachi	1835, 1994	Palladium	0779, 1906	Technics	1905
Binatone	1923	Hiteker	1923	Panasonic	1834, 1905, 1908	Techwood	1994
Blue Sky	0790	Home Tech Industries	1923	Paramount Pictures	0779	Tevion	1923, 2014
Bose	2023	Irradio	1233	Philips	1813	Thomson	0522
Bush	1832	JVC	0623, 1701, 1860, 1863,	Pioneer	1965	Tokai	0790
Cat	1923		1940	PJ	1923	Toshiba	2006
Centrum	1923, 1994	KXD	1923	ProVision	1923	United	1832
Clatronic	1923	Lenoxx	2014	QONIX	0790	Universum	0779, 0790, 1913
Dantax	0790	Lenoxx Sound	2014	Radionette	1906, 2024	Venturer	0790
Denon	0634, 1634	LG	0790, 1906	Redstar	1923	Vestel	1994
Denver	1923	Lumatron	1832	Roadstar	1832, 2014	Wharfedale	0790, 1832
Digitech	1832	Magnat	1923	Samsung	1932	Xenius	0790
Dual	0779, 0790	Magnum	2014	Sanyo	0670		

## TV/DVD Combination

Akura	1367	Ferguson	0695, 0713	Maxim	1367	Silva Schneider	1367
Alba	0695	Goodmans	0713, 0879	Medialine	1271	Sliding	1115
Amstrad	1367	Grandin	0713	Medion	0879	Technica	1367
Black Diamond	0713	Grundig	0539, 0695	Mirror	0879	Technosonic	1367
Blue Sky	0713	Hitachi	0713	Naiko	1367	Teletech	0713
Bush	0713, 0879, 1367	JDV	1367	Narita	1367	Thomson	0551
Centrum	0713	Karcher	1367	Neovia	1271	Toshiba	0695
Crown	0713	Konka	0719, 0720	Orion	0695	Tosumi	1367
D-Vision	1367	Kotron	0879	Philips	0539	United	0713, 1367
Daewoo	0870, 2155	Logik	0713	Roadstar	0879	Universum	0713
DMTech	1271	Luker	1367	Saivod	1367	Wharfedale	1115
Dual	0713	Luxor	0713	Schneider	1367		
Elfunk	0713	Matsui	0713	SEG	0713		

## Amplifier

Acurus	1431	Copland	0269	Meridian	0269	RCA	0300
Arcam	0269	Curtis Mathes	0300	Micromega	0269	Revox	0269
Audio Agile	0269	Denon	0272	Myryad	0269	Sony	0689
Audiolab	0269	Goldmund	0269	Naim	0269	Technics	0521
AVI	0269	Grundig	0269	Optimus	0013, 0300	Thorens	0269
Ayon	1714	Harman/Kardon	0269	Panasonic	0521	Universum	0269
Balanced Audio Technology	0269	Linn	0269	Philips	0269, 0892	Wards	0013
Bonnec	0269	Loewe	0269	Pioneer	0269, 0013, 0300	Yamaha	0848
Carver	0269	Magnavox	0269	Quad	0269		
		Marantz	0269, 0892	Radiola	0269		

## Home Theater in Box

Panasonic	0521	Sony	0689	Technics	0521
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## Receiver

AEG	1389, 1390	Bang & Olufsen	0799	Clatronic	0797, 1389	Genexxa	0186
AFK	1389	Basic Line	1554	Cosmotron	0797	Goldmund	0189
Aiwa	0121, 0189, 1189, 1269, 1405	Belson	1389	Dantax	1390	GoldStar	0112
Akai	0609, 0804, 1390	Binatone	1389	Denon	0004, 1104, 1360	Goodmans	0609, 0744, 0797, 1389, 1390, 1420, 1611
Alba	1554	Blue Sky	1390	Denver	1389	Grundig	0189, 0797, 1089, 1189, 1344, 1772
All-Tel	1390	Bose	1229, 1355, 1933	Digitech	1772	Grunkel	0744, 1390
Amstrad	0744, 1390	Bush	0797, 1772	DiK	0797	GTX	0112
Anam	0112, 0609	Cairn	0189	DK Digital	1420	Hanseatic	1390
Arcam	0189	Cambridge	0189	Dual	0004, 1220, 1390, 1420	Harman/Kardon	0189, 1189, 1304, 1310
ASCOMTEC	1389	Cambridge Audio	0189	eBench	0744, 0797	Harwood	0744
Audiolab	0189, 1189	Carver	0189	Elta	0744, 0797, 1390	HCM	1390
Audiosonic	1389	Cat	1389	Ferguson	1154	HE	1389
Audiotronic	1189	CCE	1352	Fine Arts	1189		
		Centrum	1220, 1389	Firstline	0797		

Hitachi	1344, 1554, 1801	Metz	1554	QONIX	1390, 1420	Targa	1293
Hitech	0744	Micromaxx	1420	Radiola	0189	TCM	0797
Hiteker	1389	Micromega	0189, 1189	Radionette	1293, 1634	Teac	0112, 0609
Home Tech Industries	1389	Microstar	0797	RCA	1154	Technics	1308, 1309, 1518, 1763, 1765
Intersound	0744	Musicmagic	1089	Recco	0797	Techwood	1554
JBL	1304	Mustek	1352	Redstar	1389	Tevion	1389, 1611
JVC	0074, 1282, 1374, 1643, 1676, 2239, 2336	Mx Onda	0744, 0797	Restek	0189	Thomson	1154, 1354
Kenwood	0186, 1027, 1313	Myryad	0189, 1189	Revox	0186, 0189, 1089	Thorens	0189, 1189
Kioto	0797	NAD	0320, 0609	Roadstar	0797, 1611, 1772	Thorn	0744
Kompernass	0797	Nexius	1390	Samsung	0112, 0665, 1295	Tokai	1390
KXD	1389	Nikkai	1389	Sansui	0189, 0609, 1089	Toshiba	1572
Lenoxx	1611	Nikkei	0744	Sanyo	0744, 1801	United	1390, 1772
Lenoxx Sound	1611	Norcent	1389	Schneider	0744, 1220, 1390	Universum	0112, 0189, 0609, 0744, 0797, 1220, 1390, 1609
LG	1293, 1869	NTDE Geniesom	0744	Scott	1389	Venturer	0797, 1390
Lifetec	0797	Onkyo	0135, 1320	SEG	1554	Vestel	1554
Linn	0189	Optimus	0186, 0744, 1023	Sharp	0186, 0653, 1614, 1634	Victor	0074
Loewe	0189	Orient Power	0744	Sherwood	0653	Waitec	1352
Lumatron	1772	Palladium	0797, 1220, 1293, 1344, 1390	Siemens	0609	Wards	0189
LXI	0744	Panasonic	1308, 1309, 1316, 1518, 1763, 1765, 1779	Silva Schneider	0797, 1390	Watson	0797
M Electronic	0112	Paramount Pictures	1220	Sony	1058, 1112, 1158, 1258, 1441, 1454, 1658, 1722, 1758, 1759, 1822, 1858, 1882	Wellfund	0744
Magnat	1389	Philips	0189, 0891, 1089, 1189, 1269, 1289, 1673	Soundwave	0609	Welltech	0797
Magnavox	0189, 1089, 1189	Pioneer	0186, 1023, 1459, 1623	Stereophonics	1023	Wharfedale	1390, 1772
Magnum	1611	PJ	1389	Sumida	0744	Xenius	1390
Marantz	0189, 0891, 1089, 1189, 1269, 1289, 1346, 2114	Polk Audio	1289	Sunfire	1313	Yamaha	0176, 0186, 0712, 1276, 1331, 1376, 1949
Matsui	0744, 0797	Prima Electronic	0797	Sunstech	1420	Yukai	1352
MBO	1352	Proline	0797, 1390	TAG McLaren	1189	Zenith	0744
Medion	0797, 1420	ProVision	1389	Tandberg	1554		
MEI	1390						

#### Home Theater in Box

AEG	1389, 1390	Cat	1389	Grunkel	1390	LG	1293, 1869
AFK	1389	CCE	1352	Hanseatic	1390	Lumatron	1772
Akai	1390	Centrum	1389	HCM	1390	Magnat	1389
All-Tel	1390	Clatronic	1389	HE	1389	Magnum	1611
Amstrad	1390	Dantax	1390	Hitachi	1344, 1554, 1801	MBO	1352
ASCOMTEC	1389	Denon	0004	Hiteker	1389	Medion	1420
Audiosonic	1389	Denver	1389	Home Tech Industries	1389	MEI	1390
Basic Line	1554	Digitech	1772	JVC	0074, 1374, 1643, 1676, 2239, 2336	Metz	1554
Belson	1389	DK Digital	1420	Kenwood	1313	Micromaxx	1420
Binatone	1389	Dual	1220, 1390, 1420	KXD	1389	Mustek	1352
Blue Sky	1390	Elta	1390	Lenoxx	1611	NAD	0609
Bose	1229, 1933	Goodmans	1389, 1390, 1420, 1611	Lenoxx Sound	1611	Nexius	1390
Bush	1772	Grundig	1344, 1772			Nikkai	1389

**Home Theater in Box**

Norcent	1389	QONIX	1390, 1420	Silva Schneider	1390	Toshiba	1572
Onkyo	0135	Radionette	1293, 1634	Sony	1454, 1658, 1722, 1758, 1822, 1858, 1882	United	1390, 1772
Palladium	1220, 1293, 1344, 1390	Redstar	1389	Sunstech	1420	Universum	1220, 1390, 1609
Panasonic	1316, 1763, 1765, 1779	Roadstar	1611, 1772	Tandberg	1554	Venturer	1390
Paramount Pictures	1220	Samsung	1295	Targa	1293	Vestel	1554
Philips	1269, 1673	Sanyo	1801	Technics	1763, 1765	Waitec	1352
Pioneer	1459	Schneider	1220, 1390	Techwood	1554	Wharfedale	1390, 1772
PJ	1389	SEG	1389	Tevion	1389, 1611	Xenius	1390
Proline	1390	Sharp	1614, 1634	Tokai	1390	Yamaha	0712, 1331
ProVision	1389					Yukai	1352

**Amplifier**

Classic	1595	Marantz	0269, 0892	Pioneer	0013, 0300	Technics	0521
Denon	0272	Panasonic	0521	Sony	0689	Weida	1714
Epoch	1431	Philips	0269, 0892	TCL	1591		

**Cable Set Top Box**

ABC	0014	GNI	1466, 1468	Pioneer	0023	TopTV	1465
ADB	1927	Hitachi	0014	Samsung	0000, 0702	Topway	1991
Astro	0316	Jerrold	0014	Skyworth	1464	Toshiba	0000
Cable HK	1374	Jiuzhou	1445	Starcom	0014	Trans PX	0276
Daeryung	0477	LG	0779	StarHub	1927	Visionetics	1374
Fosgate	0276	Pacific	1410	Taepyung	1410	Zenith	0000
General Instrument	0014	Philips	0290	TCL	1445		

**Cable/PVR Combination**

Astro	0316
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**Receiver**

Aiko	2027	JVC	0074, 1282, 1643, 2336, 2239	Philips	0189, 0891, 1189, 1269	Sony	1058, 1258, 1349, 1441, 1759, 1822
Aiwa	0121, 0189, 1405	Kenwood	1313, 0186, 0712, 1027	Pioneer	0289, 1023	Stereophonics	1023
Anam	0112, 0609, 0804	Marantz	0189, 0744, 1189, 1269, 1289, 1346, 2114	Qisheng	1390, 1609	Technics	1308, 1518
Anam National	0112	Mitsubishi	1393	Samsung	0112, 0665	Victor	0074
Bang & Olufsen	0799	Onkyo	0135	Sansui	0189	Yamaha	0176, 0186, 0712, 1276, 1376
Denon	0004, 1360	Panasonic	1308, 1518, 1763	Sharp	0186, 1634		
Fonmix	1360			Shinco	1390		
GoldStar	0112			Silsonic	0176		

**Home Theater in Box**

Aiko	2027	JVC	1643, 2239, 2336	Sharp	1634	Sony	1822
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**Satellite Set Top Box**

Astro	1816	CNS	1367	Daeryung	0396	Echostar	0396
BSkyB	0847	Dae Young	0735	Draco	1375	Hisense	1535

### Satellite Set Top Box

Humax	1406, 1407, 1989	MDS	1401	RCA	2108	TCL	1143
Hwalin	0885	Pace	1887	Samsung	0773	TVB	1989
Hyundai	0758, 1416	Pantech	0747	Scientific Atlanta	1980	Zenith	1856, 0635
Indovision	0856, 1887, 1989, 2108	Philips	0200, 0292	SkyLife	0796		
Kuang Yu	0635	Proton	1535	SVA	1455		
Marantz	0200	QNS	1367, 1402, 1404	TaeKwang	0733		

### SAT/PVR Combination

Humax	1407
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### DVD

Aiko	1728	Funai	0675	Nintaus	1051, 1202	Sony	0533, 1033, 1070, 1516, 1633, 1824
Akira	1316	Hitachi	0664, 1664	Onkyo	0627, 1769		
Alco	0790	Hiteker	0672	Panasonic	0490, 1010, 1011, 1641	Sylvania	0675
Apex Digital	0672	JVC	0623, 1164, 1241, 1597, 2365	Panda	1203	TCL	1180, 1182, 1186, 1189, 1225
BBK	1452			Philips	0539, 0646, 1354, 2056, 2084	Toshiba	0503, 1510, 1769
Blue Parade	0571	jWin	1049, 1051	Pioneer	0571, 0631, 1571	Victor	1241, 1597
Byd:sign	0872	Konka	0711, 0719, 0720, 0721	Samsung	0199, 1635	Xbox	0522, 1708, 2083
Changhong	0627, 1061	LG	0741, 1544	Sansui	1695	Xoceco	1231
Denon	0490, 0634, 1634, 2258	Malata	2155	Sharp	0630, 0675, 2024, 2250	Yamaha	0490
Desay	1212	Master	1217	Skyworth	0898, 1258		
Emerson	0675	Microsoft	1708, 2083				

### Blu-Ray DVD

Denon	2258	Panasonic	1641	Pioneer	0142	Sharp	2250
JVC	2365	Philips	2084	Samsung	0199	Sony	1516
LG	0741						

### HD DVD

Integra	1769	Microsoft	1708, 2083	RCA	1769	Xbox	1708, 2083
LG	0741	Onkyo	1769	Toshiba	1769		

### DVD-R

Denon	0490	JVC	1164, 1597	Pioneer	0631	Sylvania	0675
Emerson	0675	LG	1544	Samsung	1635	Victor	1597
Funai	0675	Panasonic	0490	Sharp	0630, 0675		
Hitachi	1664	Philips	0646	Sony	1516		

### Home Theater in Box

Aiko	1728	Sharp	2024	Sony	1824
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### TV/DVD Combination

Konka	0719, 0720	Malata	2155
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# JVC

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