

JVC

LT-32DP9BU

LT-32ED91U

LT-32ELD9U

WIDE LCD PANEL TV

16:9 LCD TV

TELEVISEUR A ECRAN LCD PANORAMIQUE

BREEDBEELD LCD TV

TELEVISOR CON PANEL LCD PANORÁMICO

TV LCD WIDESCREEN

ŠIROKOÚHLÝ LCD MONITOR

INSTRUCTIONS

BEDIENUNGSANLEITUNG

MANUEL D'INSTRUCTIONS

GEBRUIKSAANWIJZING

MANUAL DE INSTRUCCIONES

ISTRUZIONI

PŘÍRUČKA K OBSLUZE



ENGLISH
DEUTSCH
FRANÇAIS
NEDERLANDS
CASTELLANO
ITALIANO
ČESKY

HD
ready

MAXX
Base

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE

DynaPiX HD

DVB
Digital Video
Broadcasting

Trade Mark of the DVB Digital
Video Broadcasting Project
(1991 to 1996) Number :
5228, 5486, 5487



LCT2412-001A-L-EN

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

When selecting a country which does not support Digital Terrestrial broadcasting, select "Other" in "Select a country" (P. 13). When "Other" is selected, you can select the system language in "Select a system language" (P. 13) from languages listed below:
Bulgarian, Hungarian, Norwegian, Polish, Romanian, Turkish, Ukrainian.

Information for Users on Disposal of Old Equipment

ENGLISH



Attention:

This symbol is only valid in the European Union.

(European Union)

This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, 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 www.jvc-europe.com to obtain information about the take-back of the product.

(Other Countries outside the European Union)

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

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.

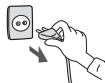
Never cut or damage the power cord!

- 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.)



Unplug the power cord when going out!

- The power buttons on the remote control and the TV unit cannot 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.
- Make use of the hole on the back of the stand to prevent the TV from falling easily. (P. 8)

Never try to repair the TV yourself!

→ If the problem cannot be solved in "Troubleshooting" (P. 37), 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" (P. 1).



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.

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

→ Unplug the power cord and contact your retailer.

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.

Take care when handling the glossy finish!

- For more details, see P. 7.

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.

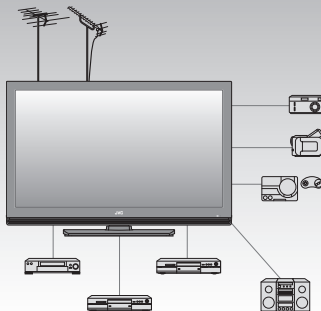


■ For more details on installation, usage and safety → Consult your retailer

Enjoy rich multi-media with JVC

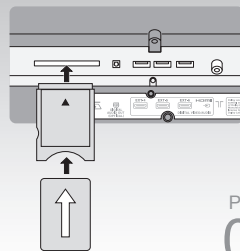
Quick setup

Connecting external devices and aerial



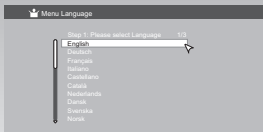
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Watch pay-TV digital channels



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Editing / tuning channels



**Initial
setting**

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13

Edit PR

PAGE
33

**Auto Scan /
Manual Scan /
Update Scan**

PAGE
31, 32

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

Contents

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Package Contents

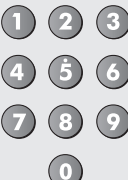
Buttons and functions

Remote control

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. 24)

	Mute.
	Turn on / off (standby) the TV.
	Enter channel / page number.
	Channel information. “Watching TV” (P. 16)
	Watch video etc. “Watching videos / DVDs” (P. 23)
	Colour buttons: Select a page when viewing teletext. Operate functions in menus.
	Switch between “TV / STB / DVD / AUDIO”. (P. 24)



	Display the Electronic Programme Guide (P. 20)
	Display on-screen menu. “Using the menu functions” (P. 26)
	Select and confirm settings in menus.
	Change channel / page.
	Volume control. ● The volume settings for headphone and speaker will be memorised separately.
	View teletext. “Viewing teletext” (P. 22)
	To the previous channel.

	Select digital / analogue / radio channels.
	Display favourite list. (P. 15)
	Display hidden information when viewing teletext. (P. 22)
	Hold the current sub page when viewing teletext. (P. 22)
	Change the subtitle language when viewing digital channels (P. 17)



	Change the aspect ratio. (P. 18)
 GUIDE	Turn on "MaxxBass". (P. 19) Adjust the mix level when "Audio Selection" is set to "Special audio track for the visually impaired". (P. 17)
 I/II	Change the audio language when viewing digital channels. (P. 17) Change the sound mode or language when viewing analogue channels. (P. 18)
	Set the sleep timer. (P. 19)

Note

- For buttons that can be used to operate other devices, refer to "Configuring your remote control" (P. 24).

Wide LCD panel TV



Power lamp

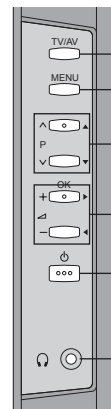
ON: Lit
OFF: Unlit

- When "Power Lamp" is set to "Off", the Power lamp will not light up. For details, refer to "Power Lamp" (P. 30)
- The power lamp will lit for a while after inserting the plug into an AC outlet. This is not a malfunction.

Remote control sensor

Note

- Peel off the protection films pasted on the glossy finish of the TV after the TV has been placed properly. (P. 7)



Switch between TV / AV devices

Display on-screen menu / set

Change channel / page

Volume

Power On / Off

To headphones

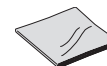
Accessories

"AAA/R03" Batteries



(For confirming the TV works)

Cleaning cloth



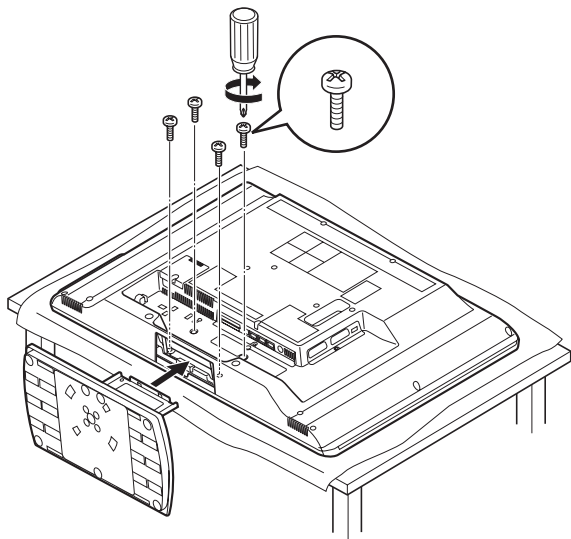
(For details on using the cleaning cloth, see P. 7.)

WARNING:

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

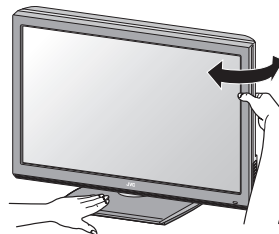
Setting up your TV

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.

Change the direction of TV

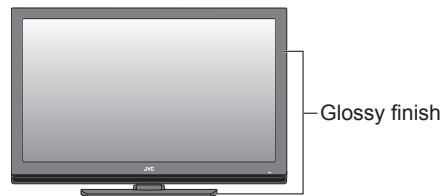


Handling the glossy finish of the TV

Be careful when handling the glossy finish of the TV

The glossy finish of the TV scratches easily.

- Protection films have been pasted onto the glossy finish of the TV to prevent scratches. Peel off the films after the TV has been placed properly.
- If the glossy finish gets dirty, clear the dust off the glossy finish first. Then wipe softly with the cleaning cloth provided. If you do not clear the dust first, or you wipe the glossy finish too hard, or a cleaning cloth other than the one provided is used, the glossy finish may be scratched.



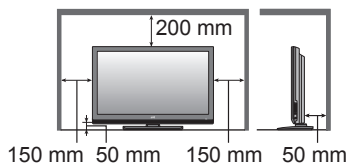
Install your TV

■ Power requirements

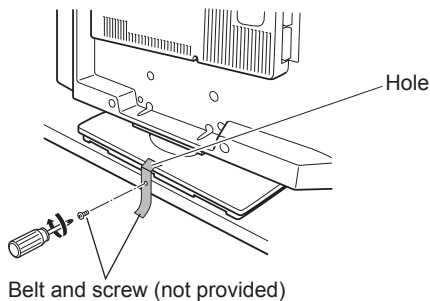
- Connect the power cord only to a 220 - 240 V, 50 Hz AC outlet.
- When attaching the TV to the wall, use the optional JVC wall mounting unit
- Consult a qualified technician.
- See the included manual on mounting procedures.
- JVC assumes no responsibility for damage due to improper mounting.
- Mounting holes for wall mounting unit:
M5 x 4, 200 mm x 200 mm
Depth of screw hole is 7 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.



- To prevent the TV from falling, thread the belt through the hole on the back of the stand and secure it to the TV rack, etc.

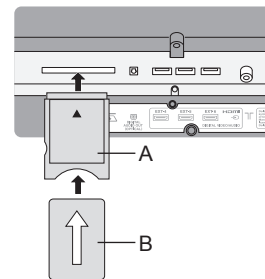


Watch pay-TV digital channels

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

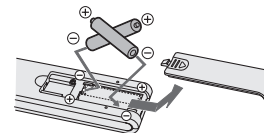
Consult your broadcasting company or retailer.

- 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. 30)
 - Pay-TV analogue channels cannot be watched.



Insert the batteries

Use two "AAA/R03" dry cell batteries. Insert the batteries from the $\ominus$ end, making sure the $\oplus$ and $\ominus$ polarities are correct.



Connecting external devices

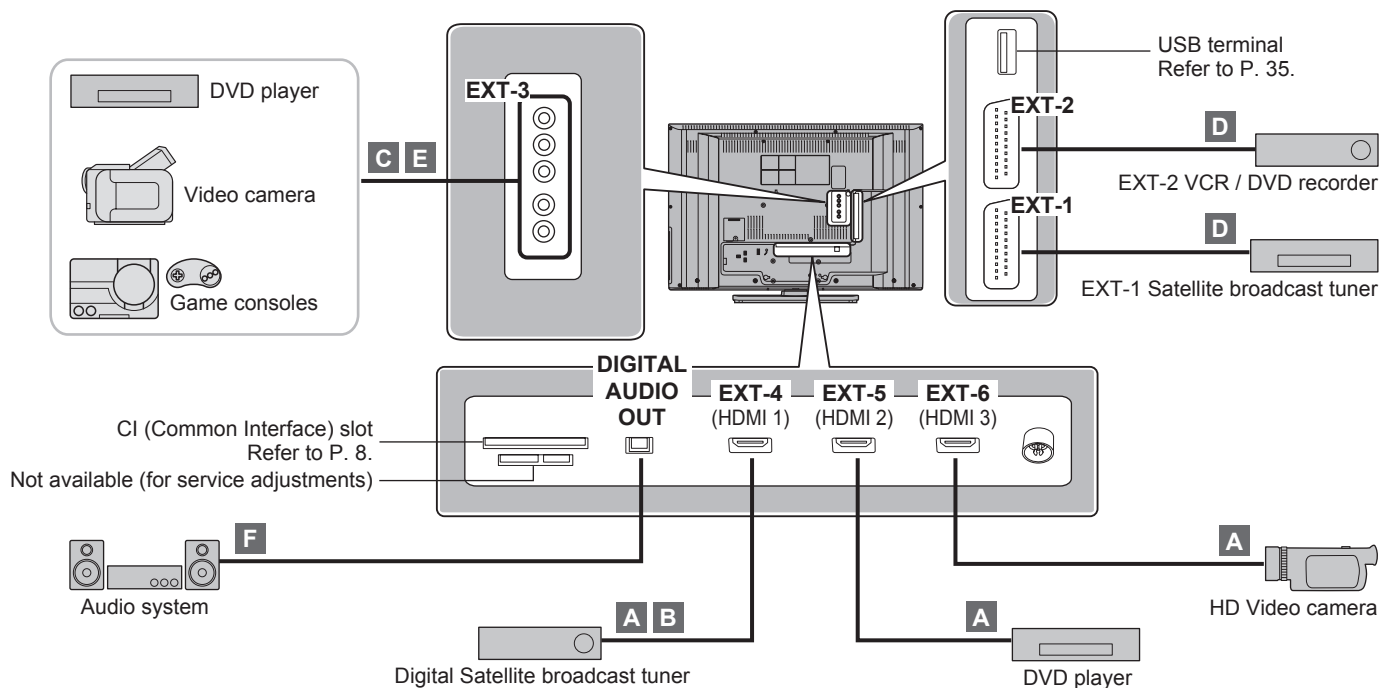
Make sure all the devices and the TV are turned off.
The names of the devices shown in the following illustration are examples.

■ Find the best connections that are possible with your devices. ➔ (P. 10, 11)

Note

- Please read the user manuals of each device before setting up.
- Connecting cables are not supplied with this TV.
- When using EXT-2 terminal, some USB device may not be able to connect properly depending on the outside dimensions.

A B C D E 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 ↑ 						

Best

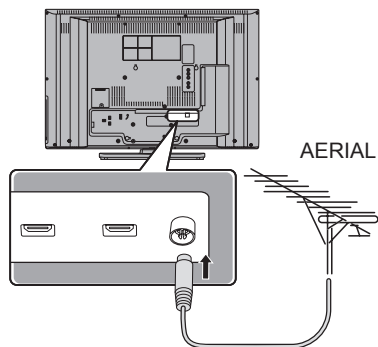


Better

 Good	 D SCART (Euroconnector)	 SCART cable	 EXT-1	Input ● Composite video (analogue) ● RGB input (analogue) ● Audio L / R (analogue) Output ● Monitor out (composite video and audio L/R) (analogue)	Please refer to the “Monitor out (EXT-1, EXT-2)” (P. 40) ● When connecting a decoder that are not equipped with a tuner, use EXT-1 terminal.
	 E Video and audio	 Video and audio cable	 EXT-3: V, L, R jacks	Input ● Composite video (analogue) ● S-Video (analogue) *NTSC/PAL compatible ● Audio L / R (analogue) Output ● Monitor out (composite video and audio L/R) (analogue)	
	 E Video and audio	 Video and audio cable	 EXT-3: V, L, R jacks	Input ● Composite video (analogue) ● Audio L / R (analogue)	Change the EXT-3 setting from “component” to “composite”. (P. 23)

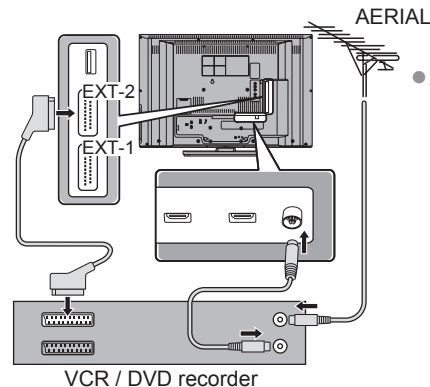
	Audio system	Connecting cables	Connect to your TV	Available signals	Notes
F	 Optical input	 Optical audio cable	 DIGITAL AUDIO OUT	Output ● When watching digital channel Linear PCM / Dolby Digital / MPEG (digital) ● Other Linear PCM (digital)	Please refer to the ““Dolby Digital” output from the DIGITAL AUDIO OUT terminal” (P. 40)

Connecting the aerial



- After all the connections have been made, insert the plug into an AC outlet.

Connect a VCR / DVD recorder



- After all the connections have been made, insert the plug into an AC outlet.

Power supply for the indoor aerial

When using an indoor aerial which requires external power, set "Antenna Power" to "On" in step 6 of "Initial settings" (P. 13). 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. 31).

Initial settings

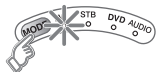
The initial settings will begin automatically when the TV is turned on for the very first time. Follow the on-screen instructions to perform the settings.

1 Turn on



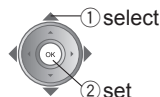
The power lamp on the TV lights

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



2 Select a Menu language

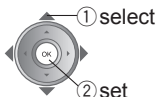
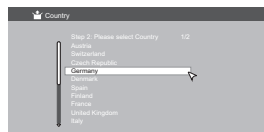
Select a language for on-screen displays.



- If the "Menu Language" does not appear, refer to "Factory Setting" (P. 34) or "Retuning" (P. 34) for channel settings.

3 Select a country *

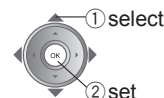
Select the country of installation. Receivable digital channels will differ depending on the "Country" setting.



4 Select a system language

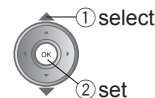
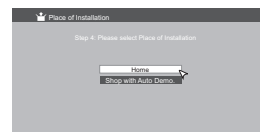
Select a language for audio, subtitle, and EPG.

- The system language will differ depending on selected country.



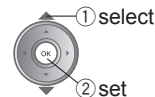
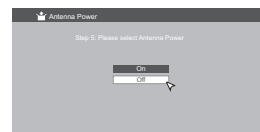
5 Select place of installation

Select "Home", for use at home.



6 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. 12)



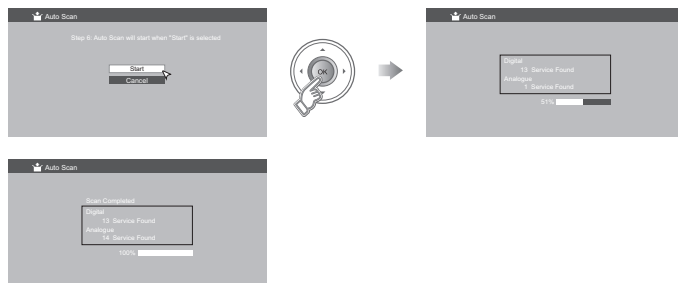
Note

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

Initial settings (continued)

7 Start auto scan

Register channels



- If you can not 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. 33). To edit PR ➡ ● (green)
- Some digital channels cannot be watched on this TV. For details, refer to page 40.

8 Finish

■ To the previous screen ➡ **BACK**

■ If the “Menu Language” does not appear or if you wish to make changes later, refer to “Factory Setting” (P. 34) or “Retuning” (P. 34) 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. 34).

2 Set digital channels using “Factory Settings”. For details, refer to “Factory Settings” (P. 34)

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

Watching TV

Digital channels / Analogue channels / Radio



1 Turn on

The power lamp on the TV lights

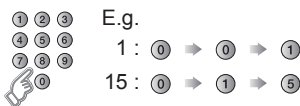
- If the remote control doesn't work, confirm that the mode is set to "TV".
- Press again to turn the screen off and put the TV into standby mode.
- To completely turn off the TV, unplug the power plug.

2 Select Digital, Analogue or Radio



3 Select a channel

■ Enter a channel number



■ Move up or down a channel

up

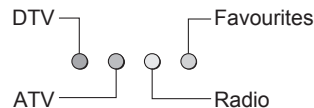
down

■ Select with PR List



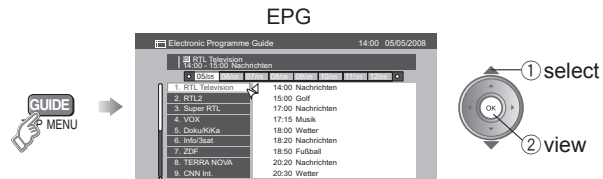
• Select DTV / ATV / Radio / Favourites

• Close PR List



- You can also display "Favourites" by pressing .
- To edit favourite channels, refer to "Favourite Setting" (P. 32)

■ Select with EPG (Electronic Programme Guide) (P. 20)



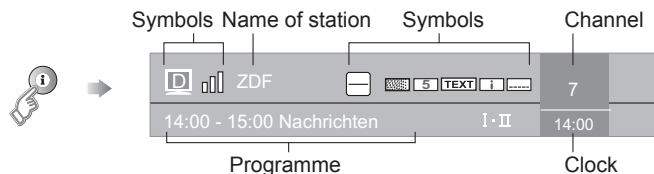
- Display only programmes which match your selected genre
➔ "Genre" (P. 21)

Note

- Add a new station. ➔ "Update Scan" (P. 32)
- Edit the "PR List" according to your liking. ➔ "Edit PR" (P. 33)
- Some digital channels cannot be watched on this TV. ➔ (P. 40)
- The channels and programme names shown in the illustrations are for Germany.

Display the programme information

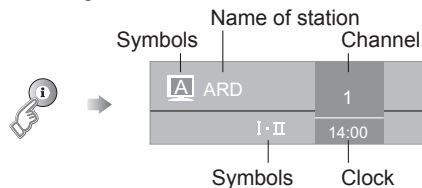
■ Digital channel / radio



- 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

: Teletext is available. (P. 22)

I · II : I: Audio in another language is not available.

II: Other audio languages are available. (P. 17)

: Pay-TV channel

: Minimum viewing age limit of the programme.
Set viewing age limit. → (P. 30)

: Subtitles are available. (P. 17)

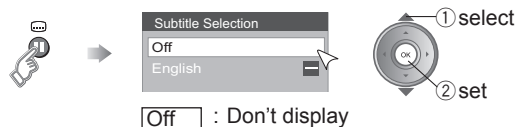
: More information about the programme is available. →

Dolby Digital : Dolby Digital signal is received. (P. 40)

: Special audio track for the visually impaired. (P. 29)

: Special audio track for the hearing impaired. (P. 29)

View subtitles (Digital channel only)



- By default, the language set in “System Language” (P. 29) is automatically selected.
- When not broadcast in that language, another broadcast language is automatically selected.
- When no subtitles are broadcasted, “No Subtitles” is displayed.

⌚ : Special subtitles for the hearing impaired

Undefined : When the subtitle's language cannot be identified

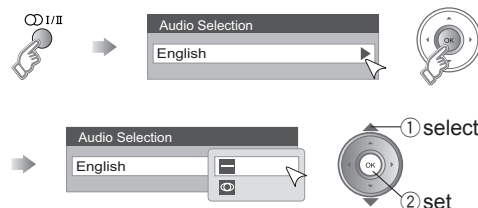
- The language that can be selected depends on the broadcast.

Select audio language (Digital channel only)

By default, the language set in “System Language” (P. 29) 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

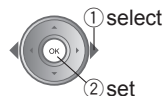
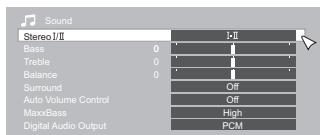
- The language that can be selected depends on the broadcast.
- Please read “Dolby Digital” output from the DIGITAL AUDIO OUT terminal” (P. 40) before selecting “Dolby”.
- You can adjust the mix level of Bilingual I and Bilingual II sound for visually impaired. To display mix level, select “Special audio track for the visually impaired” and then press  during volume control.

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

Change the sound mode or language (Analogue channel only)



2 Select the sound mode or language



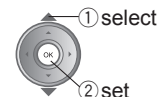
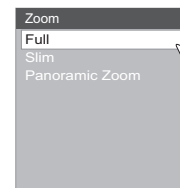
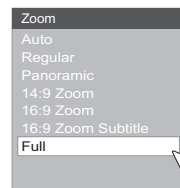
- When viewing a bilingual broadcast programme, you can select either Bilingual I (Sub I) or Bilingual II (Sub II) sound.
- If the stereo broadcast reception is poor, you can change to mono sound for clearer sound.
- This button can also be used when watching digital channels. For details, refer to "Select audio language" (P. 17)

Change the aspect ratio



2 Select the aspect ratio

■ For high definition signal



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



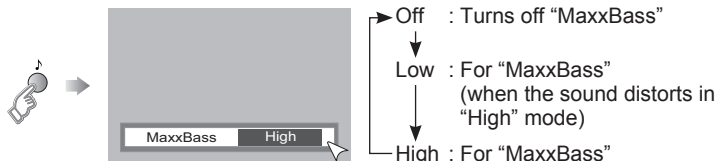
Move the picture with ▲ or ▼ while this bar is displayed

- 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. 40)

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.

Enjoy Bass enhanced sound

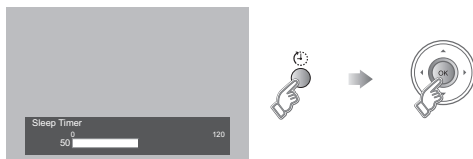


- You can also adjust the “MaxxBass” settings in the “MaxxBass” menu. (P. 29)
- “MaxxBass” does not work with headphones.

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.

Other useful functions

- Surround (P. 28)
Enjoy ambient sound.
- Auto Volume Control (P. 29)
Maintains a uniform sound volume even if the sound becomes loud suddenly during commercial breaks etc.
- Picture Mode (P. 27)
Select preset picture setting according to the brightness of your room.
- Radio Mode (P. 30)
Automatically turns off the backlight when listening to the radio channel. This function reduces the power consumption of this TV.

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



Date Channel 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

Music

Movie

Culture

News

Current Affairs

Entertainment

Education

Sports

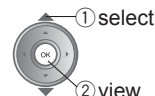
Leisure

Children's

Special

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

■ Watch / listen to the programme



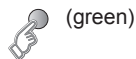
- When the clock is off → "Time Zone" (P. 29)

- Select the default language for programme name and programme information → "System Language" (P. 29)

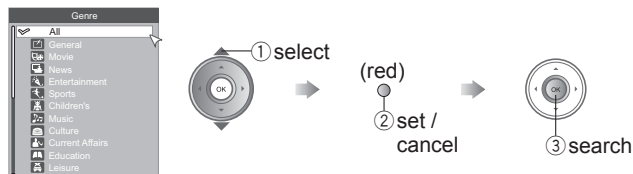
Genre

Display only programmes which match your selected genre.

1 Display the genre list

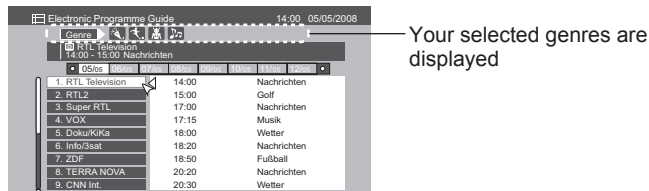


2 Select a genre



- More than one genre can be selected.

3 Find a programme



- Only programmes in the selected genre are displayed.

Timer

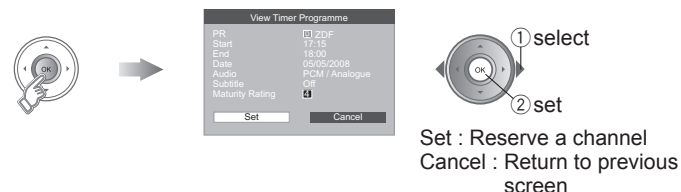
Reserve a programme to watch. (One programme at a time)
To record a programme, refer to “Monitor out (EXT-1, EXT-2)” (P. 40).

1 Select a programme

- Select a column
(Channel / Programme)
- Select a channel / a programme



2 Set “Timer”



- 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.

Viewing teletext

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



2 Enter a teletext page

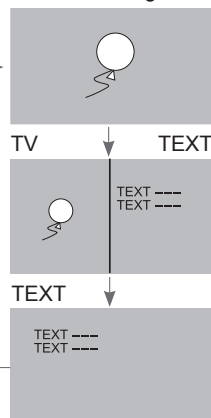


■ Move up or down a page

P ^ up

P v down

When watching TV



Hold the current sub page



Hold the current sub page

■ Release → Press “+” again

Reveal hidden pages



Display hidden information (answers to quizzes, etc.)

$$\begin{array}{rcl} 1 & + & 2 = \\ 2 & \times & 3 = \end{array}$$



$$\begin{array}{rcl} 1 & + & 2 = 3 \\ 2 & \times & 3 = 6 \end{array}$$

To the index page

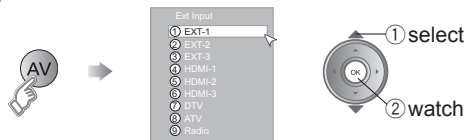


Returns to page “100” or a previously designated page

Watching videos / DVDs



1 Select the video source

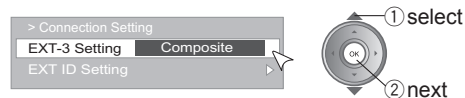


2 Operate the connected device and play a video

■ To return to TV channels

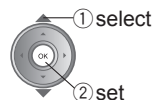
- Press the "DTV" button or select "DTV" from the "EXT Input" menu for digital channels.
- Press the "ATV" button or select "ATV" from the "EXT Input" menu for analogue channels.

2 Select "EXT-3 Setting" or "EXT ID Setting"



■ EXT-3 Setting

Select "Component" or "Composite"



Component For component signal

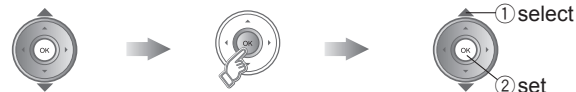
Composite For composite signal

■ EXT ID Setting

Select terminal

Show the name list

Select a name from the list



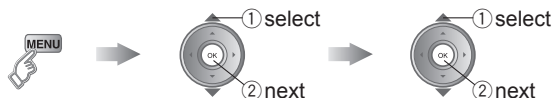
Setting external terminals

1 Display the "Connection setting" menu

Display the menu bar

Select "System Setup"

Select "Connection setting"



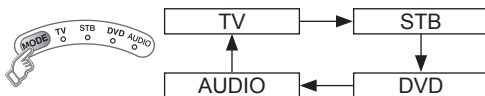
Configuring your remote control

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 - X at the back of this manual.)

4 Set the remote control code.



- The indicator will unlit for a seconds 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. 25).

MODE	Applicable devices
TV	JVC brand only
STB	Cable Set Top Box, Cable/PVR Combination, Satellite Set Top Box, SAT/PVR Combination
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 **BACK** 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 **BACK** to register the code.

■ 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

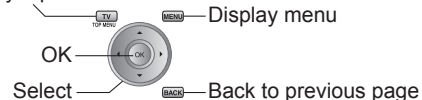


■ Turn on/off the device

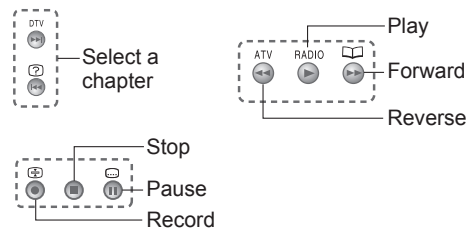


■ Navigate the menus

Display top menu



■ Playback / Record, etc.



■ 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.



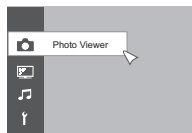
Using the menu functions



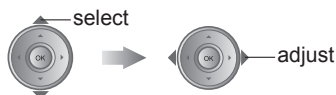
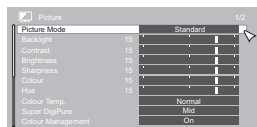
1 Display the menu bar



2 Display the desired menu



3 Change or adjust the setting



■ To the previous screen → **BACK**

■ To Exit → **MENU**

■ 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.

■ 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.

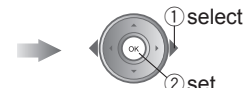
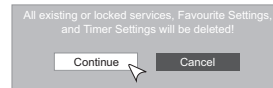


● The default PIN code is "0000".

● You can set your own PIN code. → "Enter PIN code" (P. 29)

● 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

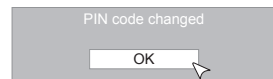
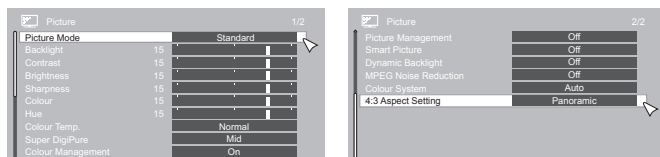


Photo viewer menu

You can view picture files and listen to music files that are stored in your USB device. For details refer to “Viewing from USB devices (Picture / music)” (P. 35)

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

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

Picture menu (continued)

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)

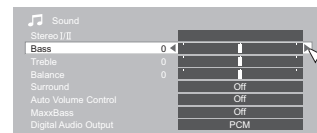
Select a default aspect ratio

☐ Panoramic☐ Regular

16 : 9

4 : 3

Sound menu



- “Stereo/ I-II” is available only for analogue channels.

Stereo/ I-II

Select stereo, monaural or language

☐ Monaural☐ Stereo☐ I SUB1☐ II SUB2

Bass

Low tones

 Weaker ⇄ Stronger

Treble

High tones

 Weaker ⇄ Stronger

Balance

Speaker balance

 Left ⇄ Right

Surround

Enjoy ambient sound

☐ Off Function is turned off☐ 3D Cinema Surround Adds a surround sound effect for stereo audio signal

Hyper Sound

Adds a stereo-like sound effect for monaural audio signal

- “Surround” does not work with headphones.

Auto Volume Control

Maintains a uniform sound volume even if the sound becomes loud suddenly during commercial breaks etc.

On

Maintains a uniform sound volume

Off

Function is turned off

- “Auto Volume Control” does not work with headphones.

MaxxBass*

Compensates low frequencies to widen the frequency band

Off

Turns off “MaxxBass”

Low

less effective

High

more effective

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

- “MaxxBass” does not work with headphones.

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. 40) before setting.

Manufactured under license from Dolby Laboratories.

“Dolby” and the double-D symbol are trademarks of Dolby Laboratories.

ENGLISH

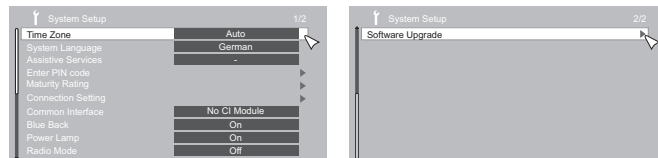
Getting started

Basics

Advanced

Etc.

System Setup menu



- “Time Zone”, “Assistive Services”, “Maturity Rating”, and “Common Interface” is available only for digital channels.

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 Mix Level (See page 5)



For hearing impaired

Enter PIN Code

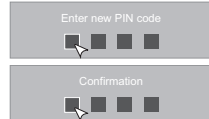
Change PIN code

1 Input the current code



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

2 Input a new code twice

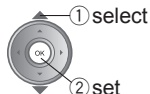
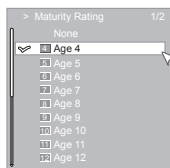


Using the menu functions

System Setup menu (continued)

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. 23)

Common Interface

Set Conditional Access Module

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

When the Conditional Access Module etc. is inserted after subscribing to the broadcasting company, this function is available.

Press "OK" button to display the Conditional Access Module menu and follow the instructions on the screen.

- "Watch pay-TV digital channels" ➔ (P. 8)
- If the 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

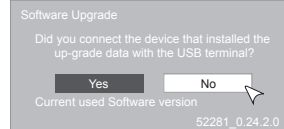
Off

Function is turned off

- When set to "On", the "Power Lamp" will also be set to "On".

Software Upgrade

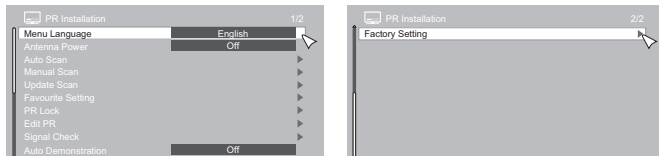
Software update using the USB terminal



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.
- "Software Upgrade" may start automatically. If a message appears, update your software if necessary.

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. 12)

Auto Scan

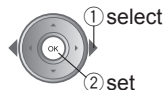
Scans and updates all receivable channels

1 Select "Continue"

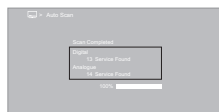
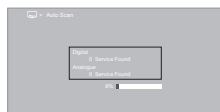
All existing or locked services, Favourite Settings, and Timer Settings will be deleted!

Continue

Cancel



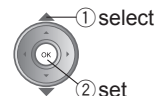
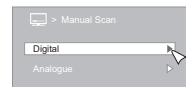
2 Start "Auto Scan"



Manual Scan

Manually scan and update a channel

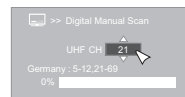
Select "Digital" or "Analogue"



■ Digital

1 Select the CH number

- CH number ➔ "Frequency table" ➔ (P. 42)



2 Start "Manual Scan"

(green)



or



3 Store channel

(yellow)



Using the menu functions

PR Installation menu (continued)

■ Analogue

1 Set the “System” and “Band”



2 Select the CH number

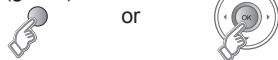
- CH number → “Frequency table” → (P. 42)



- To directly register selected channel, press blue button and then press yellow button.

3 Start “Manual Scan”

(green)



4 Fine tune channel

(blue)



5 Store channel

(yellow)



Update Scan

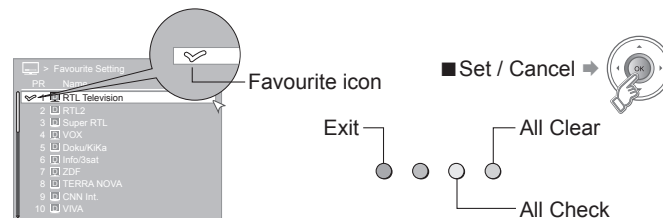
Updates new channels

Start “Update Scan”



Favourite Setting

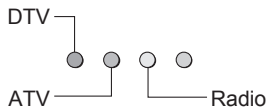
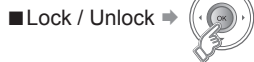
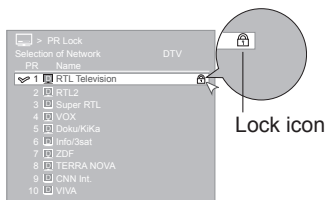
Register your favourite channel



- To move through only your favourite channels.
→ “Select with PR List” (P. 15)

PR lock

Stops children from watching specific channels

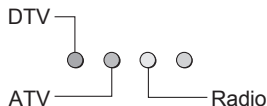
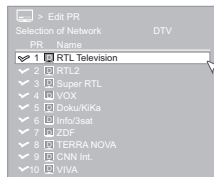


- To enable "Lock" function, turn the TV off and on again.
- To watch the locked channels, the PIN code must be entered.
 - ➔ "When entering the PIN code" (P. 26)
- Enter PIN code if needed
 - ➔ "When entering the PIN code" (P. 26)

Edit PR

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

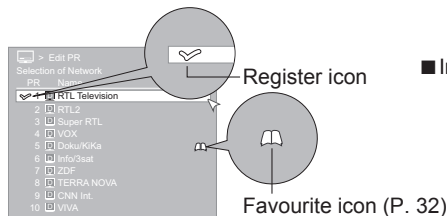
1 Select "Digital", "Analogue" or "Radio"



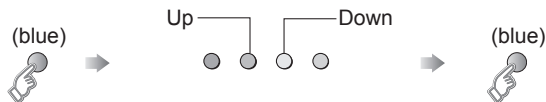
2 Select a channel



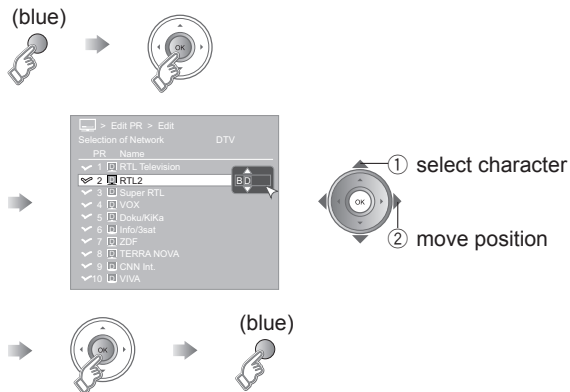
Register a channel to PR list



Move a channel



Edit channel name (Up to 5 characters)



Using the menu functions

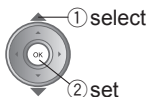
PR Installation menu (continued)

Signal Check

Check the broadcast signal

Signal level: **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.

Auto Demonstration

Demonstration and slide show of this TV's function

On

Set to automatically start the demonstration

Off

Function is turned off

- Make sure the "Auto Demonstration" is set to "Off", when using "Photo Viewer", "Retuning", "Auto Scan", "Manual Scan", or "Update Scan".
- When Timer (P. 21) is set, Auto Demonstration can not be selected.
- Do not connect USB device when "Auto Demonstration" is set to "On".
- When set to "On", it automatically enters demonstration every time no operation is made for approximately 3 minutes. To stop automatic demonstration, set "Auto Demonstration" to "Off".
- For details of "100Hz Clear Motion Drive II" demonstration, refer to page 41.

Factory Setting

Initialise the settings

Are you sure you want to delete the PR list and reset all settings?

Yes

No

The TV will switch off when reset is completed. Please switch the TV back on.



➡ 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

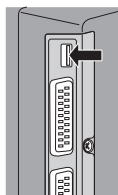
You can set the TV to restart the initial setting. For details refer to step 2 in "Initial setting" (P. 13)

Viewing / listening from USB device

Picture / Music

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

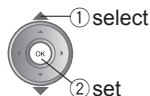
1 Connect USB device



"Photo Viewer" is displayed.

- If the "Photo Viewer" does not appear, select "Photo Viewer" from the menu bar.
- Make sure the "Auto Demonstration" is set to "Off", when using "Photo Viewer".

2 Select "Picture" or "Music"

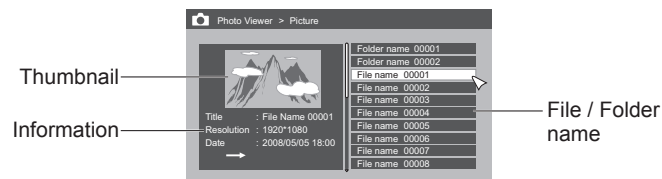


■ To select other USB devices (when connected), select the desired device from "Device".

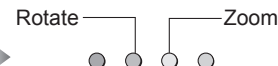
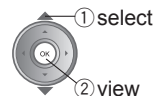
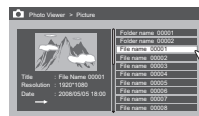
■ To exit Photo Viewer → **MENU**

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

Picture

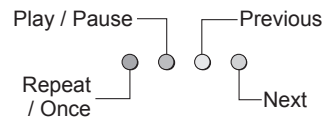
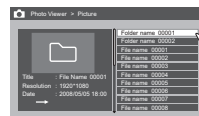


■ To view a photo

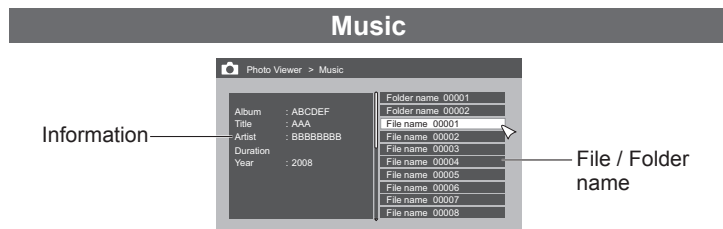


- "Zoom" function is available only when the size of the photo is bigger than the TV screen size. You can only zoom up to it's original size.
- When using the zoom function you can move the photo side to side and up and down by using 
- Depending on the file, the rotate information will be memorised.

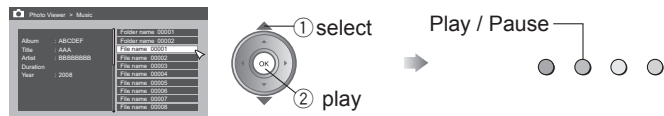
■ To view as slide show



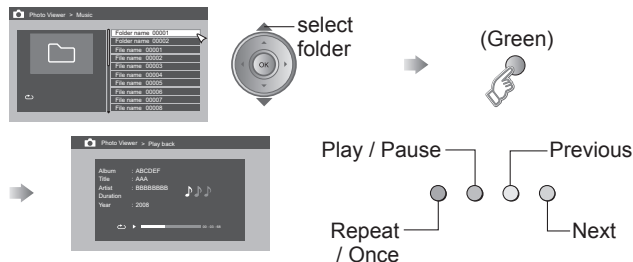
- The slide show can only be used for picture that are placed inside the folder



■ 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. 41)

Slide show with background music

You can view slide show with background music by setting “To continuously play the songs” (P. 36) and “To view as slide show” (P. 35)

- 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. 36). 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. 35).

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.

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. 31)

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?



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, 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
Basics	Remote control stops working	● Unplug TV, several minutes later plug it in again.
	TV screen is frozen	● Continuity press "MENU", "OK", "1" with under 2 seconds of interval. ● Unplug TV, several minutes later plug it in again.
	Forgot my PIN code!	● 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. 29)
	Locked channels can be watched without inputting PIN code	● 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.
Screen	Aspect ratio changes unintentionally	● Press "ZOOM" to return to your settings. (P. 18)
	Black or white dots appear on the screen	● 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.

Problem		Actions
Picture	Poor picture quality	● Change the "Picture Mode" setting. (P. 27) ● Unnatural colour >>> Adjust "Colour" and "Backlight". (P. 27) Check your "Colour System". (P. 28) ● Noise >>> Set to the following functions. Picture Mode: Standard (P. 27) Super DigiPure: Max (P. 27) ● Dull picture >>> Set to the following functions. Picture Mode: Bright (P. 27) Super DigiPure: Off (P. 27)
	Strange picture when using an external device	● If the top of the image is distorted, check the video signal quality itself. ● 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).
Sound	Poor sound	● Adjust "Bass" and "Treble". (P. 28) ● If receiving a poor signal in "Stereo/ I-II", switch to "O" (monaural). (P. 28) ● Change the broadcasting system using "Manual Scan". (P. 31)
	Left and right sound coming from one side of the speaker	● If you hear both the left and right sound from one side of the speaker even after adjusting the speaker balance to one side, set "Surround" to "Off". (P. 28)

Problem		Actions
Picture	Some functions do not work	● It is not a malfunction. Depending on the situation, some function items will be displayed in gray colour and will not work. (P. 26)
	Wrong screen size	● Read the user manual of the connected device and perform the following: ➡ Check if the output setting of the device is correct. ➡ Change the signal format of the device to other format.
HDMI	No picture, no sound	● Use the cable marked with HDMI logo. HDMI
	No sound	● Check if the device is compliant with HDMI.
	Green and distorted screen	● Wait a little for the signal to stabilise when switching the signal format for an HDMI device.

Problem		Actions
Error message	"Missing or weak signal"	● Is the TV connected correctly to the aerial? ● Change the direction of the indoor aerial. ● Check digital channels signal with "Signal Check". (P. 34) ● 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. ➔ Consult your retailer.
	"Services have changed. Do you want to Update PR list?"	● Update the PR List ➔ "Update Scan" (P. 32)
	"The timer will start soon"	● While watching TV, the message appears when a timer programme is about to start, indicating that the channel will be switched.
DTV	No picture, no sound	● Some digital channels cannot be watched on this TV. (P. 40)
	When the clock is off time	● Change the "Time Zone" setting. (P. 29)

Problem		Actions
Photo Viewer	Album / Title / Artist / Year does not display or display correctly (Music)	● Make sure to use ID3v1 tag.
	Duration time does not display or display correctly (Music)	● Duration time cannot be calculated for MP3 that contains the artwork. ● 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.
Other	If "Auto Demonstration" starts when watching TV	● Set "Auto Demonstration" to "Off". (P.34)

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 plugging to the AC outlet, it will take approx. 15 seconds until the TV is ready to receive any commands from the remote.

Technical information

Receivable broadcast systems

The broadcast system that can be received by "Auto Scan" will differ by countries.

- FRANCE: Can receive SECAM-L.

To register channels that can not be received by using "Auto Scan" because of the broadcast system, use "Manual Scan".

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. 28)

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

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 can not output from EXT-1 if you switch to EXT-1 from digital channel.
- 1080p (1125p) signal is not supported, because they can not be converted to composite signal.

"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. 9)
2. Change the "Digital Audio Output" setting from "PCM" to "Dolby Digital".
➔ "Digital Audio Output" (P. 29)
 - 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)
- 8, 11.025, and 12 kHz (MPEG-2.5 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.

100Hz Clear Motion Drive II

Most conventional LCD panel uses 50 frames per second (50 Hz) to display an image which needs long holding time (time it takes to display single frame), causing blurring or ghost images when there is rapid or complex movement across the screen - a phenomenon common to all LCD panels.

This TV is equipped with JVC's original "100Hz Clear Motion Drive II" technology, which displays two frames (the original plus the new interpolated frame) in the time a 50 Hz set displays a single frame. Resulting to double the typical rate, 100 frames per second (100 Hz) and halve the holding time without reducing brightness or contrast. By using this technology you will be able to reduce blurring or ghost images when there is rapid or complex movement across the screen.

By using "Auto Demonstration" (P. 34)", you can display the differences between conventional LCD (50 Hz) and LCD panel equipped with "100Hz Clear Motion Drive II".

Left side of the screen: Moving image of LCD panel equipped with "100Hz Clear Motion Drive II" (100 frames per second)
Right side of the screen: Moving image of 50 Hz conventional LCD (50 frames per second)*1

*1 To simulate Moving image of conventional LCD, the TV will display two same frames at a time.

- When the images are 60 frames per second (60 Hz), it will be produced as 120 frames per second (120 Hz)

Frequency table

To use the “Manual Scan” function (P. 31), find the “CH” number corresponding to the frequency from this table.

Digital channels

	Austria Switzerland Czech Republic Germany Denmark Netherlands Sweden 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
CH 22	482				482
CH 23	490				490
CH 24	498				498
CH 25	506				506
CH 26	514				514
CH 27	522				522
CH 28	530				530
CH 29	538				538
CH 30	546				546
CH 31	554				554
CH 32	562				562
CH 33	570				570
CH 34	578				578
CH 35	586				586
CH 36	594				594
CH 37	602				602
CH 38	610				610
CH 39	618				618
CH 40	626				626
CH 41	634				634
CH 42	642				642
CH 43	650				650

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

Analogue channels

VHF/UHF

	Austria Switzerland Germany Denmark Spain Finland Netherlands Sweden 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 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	
CH 51	711.25	

	Austria Switzerland Germany Denmark Spain Finland Netherlands Sweden Other	Italy United Kingdom Czech Republic France
CH	Frequency	
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 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				
CH 22	311.25				
CH 23	319.25				
CH 24	327.25				
CH 25	335.25				
CH 26	343.25				
CH 27	351.25				
CH 28	359.25				
CH 29	367.25				
CH 30	375.25				
CH 31	383.25				
CH 32	391.25				

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

Specifications

Model	LT-32DP9BU / LT-32ED91U / LT-32ELD9U
Broadcasting systems	CCIR I / B / G / D / K / L (See "Technical information", P. 40) 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 (Frequency: 116-172 MHz / 220-469 MHz)
Sound-multiplex systems	NICAM (I / B / G / D / K / L), A2 (B / G / D / K)
Teletext systems	Digital: EBU Text 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 cm x 16 cm) oblique x 2
Power consumption [standby]	130 W [0.36 W]
Screen size (visible area size measured diagonally)	81 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 For details ➡ (P. 10, 11)
Headphone jack	Stereo mini jack (3.5 mm in diameter) x 1
Dimensions (W x H x D: mm) [without stand]	791 x 574 x 230 [791 x 521 x 104]
Weights [without stand]	14.6 kg [12.9 kg]
Accessories	(See "Accessories", P. 6)

- A Conditional Access Module for watching pay-TV digital channels can be installed. (P. 8)
- DC power can be supplied to the indoor aerial. (P. 12)
- We may change the design and specifications without notice.
- The open source software is embedded in this product. For more information, please go to:
http://www.jvc-victor.co.jp/english/download/lnx/jvc_08eu_dtv/

JVC

Remote control codes (P. 24) / Fernbedienungscode (S. 24) / Codes de télécommande (P. 24) / Codes afstandsbediening (pag. 24) / Códigos de mandos a distancia (P. 24) / Codici del telecomando (pag. 24) / Kódy dálkového ovládání (str.22)

Cable Set Top Box / Kabeldigitalempfänger / Détecteur Set câblé / Detectorset met kabel /Descodificadores por cable / Decoder (interattivo) / Kabelový set-top-box							
ADB	1230, 1269	Freebox	1482, 1976	Noos	0817	Scientific Atlanta	0477
Auna	1230	General Instrument	0276	NTL	0276, 1060, 1068	StarHub	0276
Austar	0276	HyperVision	0619	Ono	1068	Supercable	0276
Birmingham Cable Communications	0276	Jerrold	0276	Optus	0276	Tele Danmark	0619
Cable & Wireless	1068	Macab	0817	Pace	1060, 1068, 1577	Telewest	1068
Fosgate	0276	Madritel	1230	Philips	0619, 0817	Tudi	0619
France Telecom	0817	Motorola	0276	Sagem	0817	US Electronics	0276
		Nokia	1569	Samsuna	1060, 1666	Visiopass	0817

Cable/PVR Combination / Kabel/PVR Kompination / Combinaison câble/PVR / Combinatie kabel/PVR / Combinación cable/PVR / Combinazione cavo/PVR / Kombinace kabel/PVR			
Freebox	1482, 1976	Nokia	1569

Satellite Set Top Box / Satellitdigitalempfänger / Détecteur Set satellite / Detectorset met satelliet / Codificadores por satélite / Decoder satellitare / Satelitní set-top-box							
@sat	1300	AssCom	0853	BT	1296	Cyrus	0200
@Sky	1334	Aston	1261	Bubu Sat	0713	D-box	0723, 1114, 1127
ABsat	0713	Astra	0607, 0713	Bush	1284, 1645, 1672, 1743	Daewoo	0713, 1111, 1296, 1743
ADB	0642, 1367, 1418, 1473, 1491, 1259	Astratec	1743	Cambridge	0501	DAK	1993
Akai	0200	Astro	0173, 0501, 0607, 0613, 0658, 1099, 1100, 1113	Canal Digital	0853	Deltasat	1075
Akura	1705	Atsat	1300	Canal Satellite	0292, 0853, 1339, 1853	Digatron	1294
Alba	0455, 0613, 0713, 1284, 1659	AtSky	1334	Canal+	0853, 1339	Digenius	0299, 1161
Allsat	0200	Audioline	1672	CGV	1413, 1567	Digality	0607
Alltech	0713	Audioton	0613	Cherokee	1480	Digifusion	1581, 1645, 1743
Allvision	1232, 1334, 1412	Austar	0642, 1259	Chess	0114, 0713, 1334, 1626	Dighome	1284
Amitronica	0713	Avalon	0396	Chili	1718	DigiLogic	1284
Ampere	0132, 0396	Axial	1457, 1659	CityCom	0299, 0607, 0818, 1075, 1176, 1232	DigiQuest	1300, 1457, 1473
Amstrad	0132, 0396, 0501, 0713, 0847, 1113, 1175, 1693	Axis	1111	Clark	0613	DigiSat	1232
Anglo	0713	B@ytronic	1412	Classic	1672	Digisky	1457
Ankaro	0713	Beko	0455	Clatronic	1413	Dijam	1296
Anttron	0613	Best Buy	1993	Clemens Kamphus	0396	DiPro	1367, 1543
Apollo	0455	Big Sat	1457	Cobra	0396	DirecTV	0099
Apro	1672	Black Diamond	1284	Colombia	0132	Discovery	1480
Arcon	1075	Blaupunkt	0173	Comag	0132, 1232, 1366, 1412, 1413, 1579	Distratel	1283, 1704, 1705
Armstrong	0200	Blue Sky	0713	Condor	0607	DMT	1075
Arnon	1300	Boca	0132, 0713, 1232, 1366	Connexions	0396	DNT	0200, 0396
Asat	0200	Boston	1251	Conrad	0132, 0501, 0607	Dream Multimedia	1237
ASCI	0114, 1334	Brainwave	0658, 1294, 1672	Coship	1457	Durabrand	1284
ASLF	0713	British Sky Broadcasting	0847, 1175, 1662	Crown	1284	Echostar	0167, 0396, 0455, 0610, 0713, 0853, 1200, 1323, 1409, 1418, 1473
		Broco	0713	Cryptovision	0455	Einhell	0132, 0501, 0713
		BskyB	0847, 1175, 1662				

Satellite Set Top Box / Satellitdigitelempfänger / Détecteur Set satellite / Detectorset met satelliet / Codificadores por satélite / Decoder satellitare / Satelitni set-top-box							
Elap	0713, 1567	Hanseatic	1099, 1100	Labgear	1296	Mitsubishi	0455
Elsat	0713	Hauppauge	1294, 1672	LaSAT	0132, 0173, 0299, 0607	Morgan's	0132, 0200, 0713, 1232, 1412
Elta	0200, 1659	HB	1214	Legend	1718	Motorola	1473
Engel	0713, 1251	HDT	1159	Lemon	1334	MTEC	1214
EP Sat	0455	Heliocom	0607	Lenco	0607, 0713	Multibroadcast	0642
Eurocrypt	0455	Helium	0607	Lenson	0501	Multichoice	0642
EuroLine	1251	Hirschmann	0173, 0299, 0396, 0501, 0607, 1111, 1232, 1412	LG	1075	Mx Onda	1659
Europa	0501, 0607	Hitachi	0455, 1284	Lifesat	0132, 0299, 0713	Myryad	0200
Europhon	0132, 0299, 0607	HNE	0132	Listo	1626	Mysat	0713
Eurosky	0114, 0132, 0299, 0501, 0607	Hornet	1300	Lodos	1284	MySky	1693, 1848, 1850
Eurostar	0607, 0818	Houston	0396	Logik	1284	Neom	1993
Eutelsat	0713	Humax	1176, 1427, 1675, 1743, 1788, 1808, 1915	Logix	1075	NEOTION	1334
Exator	0613	Huth	0132, 0607, 1075	Lorenzen	0132, 0299, 0607, 1161, 1294, 1579	Netgem	1322
Fenner	0713	Hyundai	1075, 1159	Luxor	0501	Netsat	0099
Ferguson	0455, 1291, 1743	iCan	1367	M Electronic	0818	Neuf TV	1322
Fidelity	0501	ID Digital	1176	M vision	1557	Neuhaus	0501, 0607, 0713
Finlandia	0455	ILLUSION sat	1557	Manata	0132, 0713	Neuling	0132, 1232
Finlux	0455	Imperial	1334, 1429, 1672	Manhattan	0455	Neusat	0713
Flair Mate	0713	Ingelen	0114, 0396	Marantz	0200	Neveling	1161
FMD	0114, 1251, 1413, 1457	International	0132	Maspro	0173, 0713	Nevir	1659
Freecom	0501	Interstar	1214	Matsui	0173, 1284, 1591, 1743	Newton	0396
FTEmaximal	0713	Intervision	0607	Max	0607	Nikko	0200, 0713, 0723
Fuba	0173, 0299, 0396, 1161, 1214, 1251	ITT Nokia	0455, 0723	Maxim	1705	Noda Electronic	1704
Galaxis	0853, 1111, 1557	Jaeger	1334	Maximum	1075, 1334	Nokia	0455, 0723, 0751, 0853, 1023, 1127, 1223, 1310, 1723
Gardiner	0818	K-SAT	0713	Mediabox	0292, 0853	Nordmende	0455
Garnet	1075	Kamm	0713	Mediacom	1206	Octagon	0613
GbSAT	1214	Kaon	1300	MediaSat	0292, 0501, 0853, 1339	OctalTV	1294
Gecco	1273, 1412	KaTelco	1111	Medion	0132, 0299, 0713, 1075, 1232, 1334, 1412, 1626	Oggle	1705
General Satellite	1176	Kathrein	0114, 0173, 0200, 0480, 0504, 0553, 0613, 0658, 0713, 0818, 1416, 1561, 1567	Medison	0713	Opentel	1232, 1412
Globo	1251, 1334, 1412, 1429, 1626	Kenwood	0853	Mega	0200	Optex	0114, 0713, 1283, 1611, 1626
GOD Digital	0200	Key West	0132	Metronic	0132, 0613, 0713, 0818, 1283, 1334, 1375, 1704, 1705	Orbis	1232, 1334, 1412
Gold Box	0292, 0853	Kiton	0114	Metz	0173	Orbitech	0114, 0501, 1099, 1100
Golden Interstar	1283	Konig	0607	Micro	0501, 0607, 0613, 0713, 1294	P/Sat	1232
Goodmans	0455, 1284, 1291, 1591, 1705	KR	0613	Micro Elektronik	0713	Pace	0200, 0241, 0329, 0455, 0847, 0853, 1175, 1323, 1423, 1693, 1717, 1848, 1850
Granada	0455	Kreiling	0114, 0658, 1480	Micro Technology	0713	Pacific	1284, 1375
Grandin	1626	Kreiselmeyer	0173	Micromaxx	0299	Packard Bell	1111
Grundig	0173, 0847, 0853, 1284, 1291, 1330	Kyostar	0613	Microstar	1075		
Haensel & Gretel	0132	L&S Electronic	0132, 1334	Microtec	0713		

Palcom	0299, 1161, 1409	Sat Team	0713	Starlite	0200	Tonna	0455, 0501, 0713, 1611	
Palladium	0396, 0501	SAT+	1409	Stream	1848	Topfield	1206, 1207, 1208, 1545	
Palsat	0501	Satcom	0607	Strong	0132, 0613, 0713, 0820, 0853, 1159, 1284, 1409, 1626, 1765	Toshiba	0455, 1284	
Panasonic	0455, 0847, 1304	Satec	0713		Sunny	1300	TPS	0820
Panda	0173, 0455, 0607	Satelco	1232			Sunsat	0713	Triasat
Patriot	0132	Satplus	1100	Sunstar			0132, 0642	Triax
peekTton	1457	Schaecke	0613	Supratech	1413		TT-micro	
Philips	0099, 0133, 0173, 0200, 0292, 0455, 0613, 0818, 0853, 1114, 1339, 1499, 1543, 1672	Schaub Lorenz	1214	Systec	1334	Turnsat	0713	
		Schneider	1206, 1251	Tantec	0455	Twinner	0713, 1611	
		Schwaiger	0132, 0504, 0607, 1075, 1111, 1334, 1412, 1457	Tatung	0455	Unisat	0132, 0200	
Phonotrend	1200	SCS	0299	Tboston	1659	United	1251	
Pilotime	1339	Sedea Electronique	0132, 1206, 1283, 1626	Tecatel	1200	Universum	0114, 0173, 0299, 0607, 1099, 1251	
Pino	1334	Seeltech	1993	TechniSat	0114, 0396, 0455, 0501, 1099, 1100, 1195, 1197, 1322	Van Hunen	1161	
Pioneer	0292, 0329, 0853, 1308	Seemann	0396		Technomate	1283, 1610	Vaova	1993
Planet	0396	SEG	0114, 1075, 1251, 1626, 1993		Technosonic	1672	Variosat	0173
PMB	0713, 1611	Septimo	1375	Technotrend	1429	Ventana	0200	
Polytron	0396	Serd	1412	Technowelt	0132, 0607	Vestel	0114, 1251	
Portland	1296	Serino	0610	Techwood	0114, 1284, 1626	VH Sat	0299	
Preisner	0132, 0396, 1113, 1366	Servimat	1611	Telasat	0607	Visionic	1283	
Premier	0292, 0723, 0853, 1429	ServiSat	0713, 1251	TELE System	0396, 1251, 1409, 1611	VisionNet	1557	
Primacom	1111	Siemens	0173, 0396, 1334, 1429	Teleciel	0613	Visiosat	0114, 0713, 1413, 1457, 1718	
Proline	1659	Silva	0299	TeleClub	1367		VTech	0818
Promax	0455	Skantin	0713	Teleka	0396, 0501, 0607, 0613		Wetekom	0501
Quelle	0299, 0607	SKR	0713	Telesat	0607	Wewa	0455	
Radiola	0200	SKY	0099, 0847, 1175, 1662, 1693, 1848, 1850	Telestar	0114, 0501, 1099, 1100, 1251, 1334, 1610, 1626, 1672	Wharfedale	1284	
Radix	0396, 1113	SKY Italia	0853, 1693, 1848		Teletech	0114	Wisi	0132, 0173, 0299, 0396, 0455, 0501, 0607, 1232
Rainbow	0613	Sky XL	1251, 1412		Televies	0132, 0455, 0501, 1214, 1300, 1334	Worldsat	0114, 1214, 1251, 1480, 1543
Rebox	1214	Sky+	1175	Telewire	1232	Xsat		0713, 0847, 1214, 1323
Regal	1251	Skymaster	0713, 1075, 1200, 1334, 1409, 1567, 1611	Tevion	0713, 1409, 1672	Xtreme		1300
RFT	0200	Skymax	0200	Thomson	0292, 0455, 0607, 0713, 0820, 0847, 0853, 1046, 1175, 1291, 1339, 1534, 1543, 1662	Yakumo	1413	
Roadstar	0713, 0853	Skyplus	1232, 1334, 1412		Thorn	0455	Yamada	1718, 1993
Rollmaster	1413	SkySat	0114, 0501, 0607, 0713		Tiny	1672	Zehnder	0114, 0504, 0818, 1075, 1232, 1251, 1334, 1412, 1413
Rover	0713	Skyvision	1334		Tioko	0132		Zeta Technology
Rownsonic	1567	SL	0132, 0299, 1294, 1672	Tividi	1429	Zodiac		0396, 0613
S-ZWO	1207	SM Electronic	0713, 1200, 1409	Tokai	0200			
SAB	1251	Smart	0132, 0396, 0713, 1113, 1232, 1273, 1404, 1413					
Saba	0607, 0820	Sony	0282, 0292, 0455, 0847, 0853, 1558					
Sabre	0455	SR	0132					
Sagem	0820, 1114, 1339, 1690	Starland	0713					
Samsung	0853, 1206, 1243, 1458, 1570, 1916							
SAT	0501							
Sat Control	1300							
Sat Partner	0501, 0613							

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

DVD							
3D LAB	0539	Apex Digital	0672, 1004	Blue Nova International	1321	cineULTRA	0699
4Kus	1158	Arena	1115				
A-Trend	0714	Aria	0893	Blue Sky	0651, 0672, 0695, 0713, 0790, 0843, 1423	Classic	0730, 1730
Acoustic Solutions	0713, 0730, 1316	Arianet	0818, 0893	Boghe	1004, 1221	Clatronc	0672, 0675, 0788, 0818, 1233, 1434
AEG	0770, 0788, 0790, 1233, 1434, 1923	Aristona	0539, 0646	Boman	0783, 0898, 1005	Clayton	0713
AFK	1051, 1152, 1923	ASCOMTEC	1923	Bose	2023	Coby	0730, 0852
Airis	0672, 1005, 1224, 1321	Asono	1224	Brainwave	0770, 1115	Codex	1233
Aiwa	0533	Astro	1513	Brandt	0503, 0551, 0651	Commax	1321
		Atacom	1224	Broksonic	0695	Conia	0852
Akai	0788, 0790, 0898, 1115, 1233, 1557, 1695	Audiola	1660			Contel	0788
AKI	1005	Audiosonic	1923			Continental Edison	0831, 0872
Akura	0898, 1051, 1140, 1233, 1367	Audix	0713	Bush	0672, 0699, 0713, 0723, 0730, 0733, 0831, 0879, 1051, 1128, 1140, 1367, 1419, 1436, 1483, 1695, 1832	Crown	0713, 0770, 1115
		Autovox	0713			Cybercom	0831
		Auvio	0843			CyberHome	0714, 0816, 1502
		Axion	0730	Cambridge Audio	0751, 1109	Cytron	0651, 0774, 1347
Alba	0539, 0672, 0695, 0699, 0713, 0730, 0783, 1140, 1530, 1695	Basic Line	0713, 1994	Campomatic Digital	1051	D-Vision	1115, 1367
		Baze	0898			Daenyx	0872
Alize	1151	BBK	1224	Cat	0699, 0786, 0789, 1421, 1923		
All-Tel	1451	Beep	1163	CCE	0730	Daewoo	0490, 0714, 0770, 0870, 0872, 1436, 1483
Altacom	1224	Bellagio	1004	cello	1730	Dalton	0786, 1036
Amitech	0770, 0850	Belson	1923			Dansai	0770, 0783, 1115, 1695
Amoi	0852	Berthen	1643	Centrum	0713, 0779, 0789, 1005, 1227, 1923, 1994	Dantax	0539, 0713, 0723, 0790
Amstrad	0713, 0770, 1151, 1367	Binatone	1923	CGV	0733, 0751, 1115	Daytek	0872, 1005
AMW	0872	Black Diamond	0713	Cinea	0841	Dayton	0872
Ansonic	0774, 0831, 1316	Blu:sens	1233, 1321	Cinetec	0713, 0872	DCE	0831

Decca	0770, 1115	Funai	0675, 0695	IRT	0783	Luxman	0573
Denon	0490, 0634, 1634	Gateway	1158	ISP	0695	Luxor	0713, 1004, 1695, 1730
Denver	0672, 0699, 0788, 0898, 1316, 1321, 1923	Germatic	1051	Jamo	1036	Magnat	1923
Denzel	0665	Giec	1221	Jaton	0665	Magnavox	0503, 0539, 0646, 0675, 0713, 1140
Desay	0843	Global Link	1224	JDB	0730	Magnex	0723
Dgtec	0672	Global Solutions	0768	JDV	1367	Magnum	1436, 2014
Diamond	0651	Global Sphere	1152	Jeken	0699	Manhattan	0713
Digihome	0713	Go Video	0783, 0869	JMB	0695	Marantz	0539
DigiLogic	0713	GoldStar	0591, 0741	JVC	0503, 0539, 0623, 1164, 1241, 1275, 1550, 1597, 1602, 1701, 1860, 1863, 1940	Mark	0713
Digital i	0893	Goodmans	0651, 0713, 0723, 0730, 0783, 0790, 0879, 1004, 1140, 1221, 1316, 1423, 1530, 1730, 1923, 2014			Marquant	0770
Digitech	1832					Mastec	1221, 1434
DiK	0831					Matsui	0651, 0672, 0695, 0713, 1004, 1316, 1695, 1730
Dinamic	0788	GoWell	1643	Kansas Technologies	1233, 1530	Maxim	0713, 0872, 1367
Disney	0831	GPX	0699, 0741	Karcher	0783	MBO	0730, 1730
DK Digital	0831, 1557, 1660	Graetz	0665	Kendo	0672, 0699, 0713, 0831	MDS	0713
DMTech	0783, 1271	Gran Prix	0831, 0898	Kennex	0713, 0770, 0898	Mecotek	0770
Dragon	0831	Grandin	0713, 1233	Kenwood	0490, 0534	Medion	0630, 0651, 0774, 0783, 0831, 0879, 1006, 1347, 1423
DreamX	1151	Grundig	0539, 0551, 0651, 0670, 0695, 0713, 0775, 0790, 1004, 1036, 1128, 1436, 1465, 1643, 1695, 1730, 1832	Kiiri	0770		0790
DSE	1730			King Vision	1643	Memorex	0831
Dual	0651, 0665, 0713, 0730, 0779, 0783, 0790, 0831, 1436, 1530			Kingavon	0818	Metz	0525, 0571, 0713, 1994
				Kiss	0665, 0841, 1523	MiCO	0723, 0751, 1221, 1223
Durabrand	0713, 0831, 1502	Grunkel	0770, 0790, 0831, 1316	Kotron	0879	Micromaxx	0695, 1695
E: max	1233, 1321, 1643	H & B	0713, 0818, 0841, 0850, 1233, 1421	Kreisen	1421	Micromedia	0503, 0539
eBench	1152	Hanseatic	0741, 0783, 0790	KXD	1321, 1923	Micromega	0539, 1005
ECC	0730	Harman/Kardon	0702	Lawson	0768	Microsoft	0522, 1708
Eclipse	0723, 0751	Haus	0786	Leiker	0872, 1513	Microstar	0831
Elfunk	0713, 0850	HCM	0788	Lenco	0651, 0699, 0713, 0770, 0774, 1513	Minato	0752
Elin	0770	HE	0730, 1163, 1923	Lenoxx	2014	Minax	0713
Ellion	0850, 1421	Henss	0713	Lenoxx Sound	2014	Minoka	0770, 1115
Elta	0672, 0770, 0788, 0850, 1051, 1115, 1151, 1233	HiMAX	0843	Lexia	0699, 0768	Mirror	0752, 0879
Eltax	1233, 1321	Hitachi	0573, 0664, 0665, 0713, 1664, 1835, 1994	LG	0591, 0741, 0790, 0869, 1906	Mitsubishi	0713
Emerson	0591	Hiteker	0672, 1923	Lifetec	0651, 0831, 1347	Mizuda	0770, 0818, 1451
Energy Sistem	1513	Hoehner	0651, 0713, 0831, 1004, 1224	Limit	0768	Monyka	0665
Enterprise	0591	Home Electronics	0730, 0770	LiteOn	1158, 1416	MPX	0843
EuroLine	0675, 0788, 1115, 1233	Home Tech Industries	1224	LM	1643	Mustek	0730, 1730
Excello	1513	HotMedia	1152	Lodos	0713	Muvid	1643
Fenner	0651	Humax	0646	Loewe	0539, 0741	Mx Onda	0651, 0751, 1223
Ferguson	0651, 0695, 0713, 0898, 1695, 1730	Hyundai	0850, 1660	Logik	0713	Mystral	0831
Finlux	0591, 0672, 0741, 0751, 0770, 0783	IIsonic	1508	Logix	0783	NAD	0741
Fintec	1530	Ingelen	1508	Loomax	1487	Naiko	0770, 1004, 1367
Firstline	0713, 0843, 0869, 1530	Inno Hit	0713	Luker	1367	Narita	1367
Fisher	0670	Irradio	0869, 1115, 1224, 1233	Lumatron	0695, 0713, 0741, 1115, 1321, 1832	Neom	1643
				Lunatron	0741	Neovia	1271

DVD									
Neufunk	0665	Proscan	0522	SEG	0665, 0713, 0763, 0872, 1483, 1530, 1994	Tamashi	1394		
Nevir	0770, 0831, 1484	Proson	0713			Tandberg	0713, 1695, 1994		
Nikkai	1923	Prosonic	0699, 0752	Shanghai	0672	Tangent	1321		
Nintaus	1051	ProVision	0699, 0730, 1163, 1321, 1484, 1923	Sharp	0630, 0675, 0713, 0752, 1419, 2015, 2024	Targa	1227, 1906		
Norcent	1923					Tatung	0770, 1695		
Nordmende	0774, 0831	Pye	0539, 0646	Sherwood	0741	Tchibo	0741		
Noriko	0752	QONIX	1051	Siemssen	1382	TCM	0741, 0790		
Okano	0752	Radionette	0741, 0869, 1906, 2024	Sigmathek	1005, 1224	Teac	0741, 0768, 1227		
Olidata	0672	Raite	0665	Siltex	1224	Tec	0898		
Onkyo	0503, 0627, 1769	RCA	0522	Silva	0788, 0898	Technica	1367, 1695		
Oopla	1158	REC	0490	Silva Schneider	0831, 0898	Technics	0490, 1905		
Optim	0843	Redstar	0763, 0770, 0788, 0898, 1394, 1923	SilverCrest	0131, 1152	Technika	0770, 0831, 1115, 1316, 1695		
Optimus	0525			Sinudyne	1221, 1316				
Orava	0818	Relisys	1347	Sistemas	0672	Technisson	1115		
Orbit	0872	Reoc	0752, 0768	Skantic	0539, 0713	Technosonic	1051, 1115		
Orion	0695, 1128, 1233, 1419, 1434, 1695	Revoy	0699, 0841	Skymaster	0730, 0768	Techwood	0713, 1530, 1994		
		Richmond	1233	Skyworth	0898	Tecmimagen	1233		
Oritron	0651	Roadstar	0672, 0699, 0713, 0730, 0818, 0879, 0898, 1051, 1227, 1434, 2014	Sliding	1115	Teletech	0713, 0768		
Ormond	0713			SM Electronic	0730, 0768, 1152	Tensai	0651, 0770		
P&B	0818, 1451	Ronin	0710, 0872	Smart	0713	Tesco	1316		
Pacific	0695, 0713, 0768, 0790, 0831		0623	Sonic Blue	0783	Tevion	0651, 0898, 1036, 1227, 1382, 1483, 1730, 1923, 2014		
Packard Bell	0831, 1321, 1648	Rotel	0789	Sony	0533, 0573, 0864, 1033, 1070, 1516, 1533, 1536, 1633, 1824, 1934, 1981, 2020, 2043, 2132, 1433				
Palladium	0695, 0713, 0779, 1906	Rownsonic	0789			Theta Digital	0571		
Panasonic	0490, 1010, 1011, 1579, 1641, 1661, 1834, 1905, 1908	Saba	0551, 0651	Sound Color	1233	Thomson	0522, 0551		
		Saivod	0831, 1367			Tokai	0665, 0788, 0790, 0898, 1557		
Panda	0789	Salora	0741	Soundmaster	0768	Tom-Tec	0789		
peekTon	0898, 1224, 1484	Sampo	1321	Soundwave	0783	Top Suxess	1224		
Philco	0733	Samsung	0199, 0490, 0573, 0744, 1075, 1635, 1932	Standard	0651, 0768, 0788, 0831, 0898	Toshiba	0503, 0695, 1045, 1459, 1510, 1769, 2006		
Philips	0503, 0539, 0646, 0675, 1158, 1340, 1354, 1813, 2084	Sansui	0695, 0751, 1316	Star Clusters	1152, 1227				
		Sanyo	0670, 0713	Starlogic	1005	TRANS-continents	0831, 0872, 1233, 1321		
Phonotrend	0699	Scan	0850	Starmedia	0818, 1005, 1224	Tredex	0843		
		ScanMagic	0730, 1730	Stevison	1367	TSM	1224		
Pioneer	0142, 0525, 0571, 0631, 1571, 1965	ScanSonic	1695	Strato	1382	Umax	1151		
Play It	1643	Schaub Lorenz	0770, 0788, 1115, 1151	Strong	0713	United	0675, 0695, 0699, 0713, 0730, 0788, 1115, 1152, 1233, 1367, 1643, 1832		
		Schneider	0539, 0646, 0651, 0713, 0774, 0779, 0783, 0788, 0790, 0831, 0869, 1367	Sunkai	0770, 0850				
Plu2	0850	Schoentech	0713	Sunstech	0831, 1513	Universum	0591, 0713, 0741, 0779, 0790, 0869, 1227, 1530, 1913		
Powerpoint	0872, 1005			Sunwood	0788, 0898				
Prinz	0831	Schwaiger	0752	Supervision	0768, 1152	Uptek	0763		
Prism	0831	Scientific Labs	0768	Supratech	0893, 1513	Venturer	0790		
ProCaster	1004, 1513	Scott	0651, 0672, 1005, 1036, 1233, 1394, 1423, 1923	SVA	0672, 0752	Vestel	0713, 1530, 1994		
Proline	0651, 0672, 0710, 1004, 1316, 1483			Sylvania	0675				
		Seeltech	1224, 1451, 1513, 1643	Synn	0768				

Victor	1241	Weltstar	0713	Woxter	1005, 1151, 1224	Yamada	0872, 1004, 1151, 1158, 1416
Voxson	0730, 0831	Wesder	0699	X-Waves	1513	Yamaha	0490, 0539, 0646
Waitec	1151, 1224, 1233	Wharfedale	0713, 0751, 0752, 0790, 1832, 1835	Xbox	0522, 1708	Yamakawa	0665, 0710, 0872
Waltham	1530	Wilson	0831, 1233	Xenius	0790	Yukai	0730, 1730
Welkin	0831	Windsor	0713	Yakumo	1004	Zenith	0503, 0591
Wellington	0713	Windy Sam	0573				
Welltech	1221						

Blu-Ray DVD

LG	0741	Philips	2084	Samsung	0199
Panasonic	1641	Pioneer	0142	Sony	1516

HD DVD

LG	0741	Onkyo	1769	Toshiba	1769
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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	Humax	0646	Philips	0646, 1158	Thomson	0551
Commax	1321	JVC	1164, 1275, 1597	Pioneer	0631	Toshiba	1510
CyberHome	1502	Kansas Technologies	1530	ProVision	1321	Universum	1227, 1530
Cytron	1347	Kreisen	1421	Pye	0646	Vestel	1530
DSE	1730	KXD	1321	Relisys	1347	Waltham	1530
Dual	1530	LG	0741	Roadstar	1227	Welltech	1221
Durabrand	1502	Lifetec	1347	Samsung	1635	Xoro	1221
E-max	1321	LiteOn	1158, 1416	ScanMagic	1730	Yamada	1158, 1416
Ellion	1421	Loewe	0741	Schneider	0646	Yamaha	0646
Eltax	1321	Lumatron	1321	SEG	1530	Yukai	1730
Ferguson	1730	Luxor	1730	Sharp	1419		

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AEG	0790, 1923	Belson	1923	Centrum	1923, 1994	Finlux	0672
AFK	1923	Binatone	1923	Dantax	0790	Goodmans	0790, 1923, 2014
Akai	0790	Blue Sky	0790	Denon	0634, 1634	Grundig	1832
ASCOMTEC	1923	Bose	2023	Denver	1923	Grunkel	0790
AudioSonic	1923	Bush	1832	Digitech	1832	Hanseatic	0790
Basic Line	1994	Cat	1923	Dual	0779, 0790	HE	1923

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Hitachi	1835, 1994	Marquant	0770	Redstar	1923	Technics	1905
Hiteker	1923	MEI	0790	Roadstar	2014	Techwood	1994
Irradio	1233	Metz	1994	Samsung	1932	Tevion	1923, 2014
JVC	0623, 1701, 1860, 1863, 1940	Nikkai	1923	Sanyo	0670	Thomson	0522
KXD	1923	Norcent	1923	Schneider	0779, 0790	Tokai	0790
Lenoxx	2014	Onkyo	0627	Scott	1923	Toshiba	2006
Lenoxx Sound	2014	Palladium	0779, 1906	SEG	1994	United	1832
LG	0790, 1906	Panasonic	1834, 1905, 1908	Sharp	2015, 2024	Universum	0779, 0790, 1913
Lumatron	1832	Philips	1813	Sony	1824, 1934, 1981, 2020, 2132	Venturer	0790
Magnat	1923	Pioneer	1965	Tandberg	1994	Vestel	1994
Magnum	2014	ProVision	1923	Targa	1906	Wharfedale	0790, 1832
		Radionette	1906, 2024			Xenius	0790

TV/DVD Combination / TV/DVD Kombination / Combinaison TV/DVD / Combinatie TV/DVD / Combinación TV/DVD / Combinazione TV/DVD / TV/DVD kombinace							
Akura	1367	Elfunk	0713	Matsui	0713	Saivod	1367
Alba	0695	Ferguson	0695, 0713	Maxim	1367	Schneider	1367
Amstrad	1367	Goodmans	0713, 0879	Medion	0879	SEG	0713
Black Diamond	0713	Grandin	0713	Mirror	0879	Sliding	1115
Blue Sky	0713	Grundig	0539, 0695	Naiko	1367	Stevison	1367
Bush	0713, 0879, 1367	Hitachi	0713	Narita	1367	Technica	1367
Centrum	0713	JDV	1367	Neovia	1271	Thomson	0551
Crown	0713	Kotron	0879	Orion	0695	Toshiba	0695
D-Vision	1367	Logik	0713	Pacific	0695	United	0713, 1367
Daewoo	0870	Luker	1367	Philips	0539	Universum	0713
DMTech	1271	Luxor	0713	Roadstar	0879		

Amplifier / Verstärker / Amplificateur / Versterker / Amplificador / Amplificatore / Zesilovač							
Curtis Mathes	0300	Optimus	0300	RCA	0300	Yamaha	0848
Denon	0272	Pioneer	0300	Sony	0689		

Receiver / Empfänger / Récepteur / Ontvanger / Receptor / Ricevitore / Přijímač							
AEG	1389, 1390	Bang & Olufsen	0799	Cosmotron	0797	Fine Arts	1189
AFK	1389	Basic Line	1554	Dantax	1390	Genexxa	0186
Aiwa	0121, 1189, 1269, 1405	Belson	1389	Denon	1104, 1360	Goodmans	0609, 0744, 0797, 1389, 1390, 1420, 1611
Akai	0609, 1390	Binatone	1389	Denver	1389	Grundig	0797, 1089, 1189, 1344, 1772
All-Tel	1390	Blue Sky	1390	Digitech	1772		
Amstrad	0744	Bose	1229, 1355, 1933	DiK	0797	Grunkel	0744, 1390
Anam	0609	Bush	0797, 1772	DK Digital	1420	Hanseatic	1390
ASCOMTEC	1389	Cat	1389	Dual	1220, 1390, 1420	Harman/Kardon	1189, 1304, 1310
Audiolab	1189	CCE	1352	eBench	0744, 0797	Harwood	0744
Audiosonic	1389	Centrum	1220, 1389	Elta	0744, 0797, 1390	HCM	1390
Audiotronic	1189	Clatronic	0797	Ferguson	1154		

HE	1389	Micromega	1189	Recco	0797	Teac	0609	
Hitachi	1344, 1554, 1801	Microstar	0797	Redstar	1389	Technics	1308, 1309, 1518, 1763, 1765	
Hitech	0744	Musicmagic	1089	Revox	0186, 1089	Techwood	1554	
Hiteker	1389	Mustek	1352	Roadstar	0797, 1611	Tevion	1389, 1611	
Intersound	0744	Mx Onda	0744, 0797	Samsung	1295	Thomson	1154, 1354	
JVC	0074, 1374, 1676, 2000, 2001	Myryad	1189	Sansui	0609, 1089	Thorens	1189	
Kenwood	0186, 1027, 1313	NAD	0320, 0609	Sanyo	0744, 1801	Thorn	0744	
Kioto	0797	Nikkai	1389	Schneider	0744, 1220, 1390	Tokai	1390	
Kompernass	0797	Nikkei	0744	Scott	1389	Toshiba	1572	
KXD	1389	Norcent	1389	SEG	1554	United	1390, 1772	
Lenoxx	1611	NTDE Geniesom	0744	Sharp	0186, 0653, 1614, 1634	Universum	0609, 0744, 0797, 1220, 1390, 1609	
Lenoxx Sound	1611	Onkyo	0135, 1320	Sherwood	0653	Venturer	0797, 1390	
LG	1293, 1869	Optimus	0186, 0744, 1023	Siemens	0609	Vestel	1554	
Lifetec	0797	Orient Power	0744	Silva Schneider	1390	Victor	0074	
Lumatron	1772	Palladium	0797, 1220, 1293, 1344, 1390	Sony	1058, 1112, 1158, 1258, 1441, 1454, 1658, 1722, 1758, 1759, 1822, 1858, 1882	Waitec	1352	
LXI	0744		Panasonic		1308, 1309, 1316, 1518, 1763, 1765, 1779		Watson	0797
Magnat	1389	Philips			1089, 1189, 1269, 1289, 1673	Soundwave	0609	Welltech
Magnavox	1089, 1189	Pioneer	0186, 1023, 1459, 1623		Stereophonics	1023	Wharfedale	1390, 1772
Magnum	1611			Sumida	0744	Xenius	1390	
Marantz	1089, 1189, 1269, 1289	Prima Electronic	0797	Sunfire	1313	Yamaha	0176, 0186, 0712, 1276, 1331, 1949	
Matsui	0744, 0797	Proline	0797, 1390	Sunstech	1420		Yukai	1352
MBO	1352	ProVision	1389	TAG McLaren	1189	Zenith	0744	
Medion	0797, 1420	QONIX	1420	Tandberg	1554			
MEI	1390	Radionette	1293, 1634	Targa	1293			
Metz	1554	RCA	1154	TCM	0797			
Micromaxx	1420							

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AEG	1389, 1390	Digitech	1772	Lenoxx Sound	1611	Philips	1269, 1673
AFK	1389	DK Digital	1420	LG	1293, 1869	Pioneer	1459
Akai	1390	Dual	1220, 1390, 1420	Lumatron	1772	Proline	1390
All-Tel	1390	Elita	1390	Magnat	1389	ProVision	1389
ASCOMTEC	1389	Goodmans	1389, 1390, 1420, 1611	Magnum	1611	QONIX	1420
Audiosonic	1389	Grundig	1344, 1772	MBO	1352	Radionette	1293, 1634
Basic Line	1554	Grunkel	1390	Medion	1420	Redstar	1389
Belson	1389	Hanseatic	1390	MEI	1390	Roadstar	1611
Binatone	1389	HCM	1390	Metz	1554	Samsung	1295
Blue Sky	1390	HE	1389	Micromaxx	1420	Sanyo	1801
Bose	1229, 1933	Hitachi	1344, 1554, 1801	Mustek	1352	Schneider	1220, 1390
Bush	1772	Hiteker	1389	NAD	0609	Scott	1389
Cat	1389	JVC	0074, 1374, 1676, 2000, 2001	Nikkai	1389	SEG	1554
CCE	1352	Kenwood	1313	Norcent	1389	Sharp	1614, 1634
Centrum	1389			Onkyo	0135	Silva Schneider	1390
Dantax	1390	KXD	1389	Palladium	1220, 1293, 1344, 1390	Sony	1454, 1658, 1758, 1822, 1858, 1882
Denver	1389	Lenoxx	1611	Panasonic	1316, 1763, 1765, 1779		

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Sunstech	1420	Tevion	1389, 1611	Venturer	1390	Yamaha	0712, 1331
Tandberg	1554	Tokai	1390	Vestel	1554	Yukai	1352
Targa	1293	Toshiba	1572	Waitec	1352		
Technics	1763, 1765	United	1390, 1772	Wharfedale	1390, 1772		
Techwood	1554	Universum	1220, 1390, 1609	Xenius	1390		

