

JVC

LT-32R90BU

LT-42R90BU

LT-32DR9BU

LT-42DR9BU

WIDE LCD PANEL TV

16:9 LCD TV

TELEVISEUR A ECRAN LCD PANORAMIQUE

BREEDBEELD LCD TV

TELEVISOR CON PANEL LCD PANORÁMICO

TV LCD WIDESCREEN

NESTEKIDENÄYTÖLLÄ VARUSTETTU LAAJAKUVATELEVISIO

WIDE-SCREEN LCD-TV

BREDBILDS LCD-TV

INSTRUCTIONS

BEDIENUNGSANLEITUNG

MANUEL D'INSTRUCTIONS

GEBRUIKSAANWIJZING

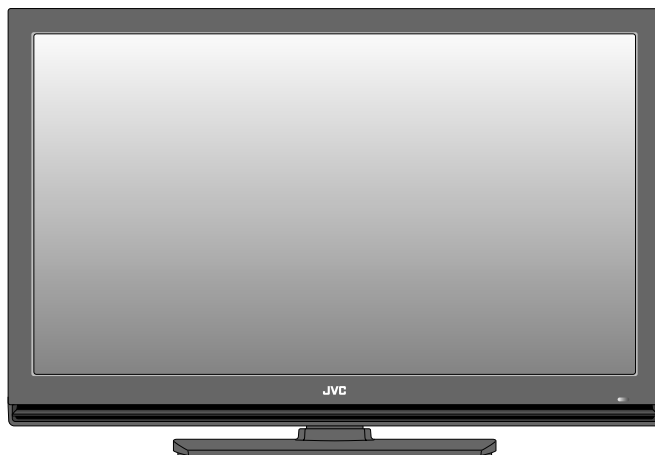
MANUAL DE INSTRUCCIONES

ISTRUZIONI

KÄYTTÖOHJE

INSTRUKTIONSBOG

BRUKSANVISNING



HD
ready
1080p

HDMI
HIGH-DEFINITION MULTIMEDIA INTERFACE



DynaPiX **HD**

ENGLISH
DEUTSCH
FRANÇAIS
NEDERLANDS
CASTELLANO
ITALIANO
SUOMI
DANSK
SVENSKA

GGT0202-003A-L

INSTRUCTIONS

LT-32R90BU
LT-42R90BU
(R90)

- R90 does not support digital channels (Digital terrestrial broadcasting (DVB-T)). To watch digital channels, a Digital terrestrial broadcasting (DVB-T) compatible tuner is required.

LT-32DR9BU
LT-42DR9BU
(DR9)

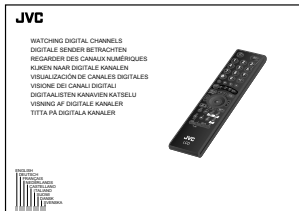


Digital Video
Broadcasting

Trade Mark of the DVB Digital Video Broadcasting
Project (1991 to 1996) Number : 5227, 5808

For DR9, a separate manual "WATCHING DIGITAL CHANNELS" is provided. Please refer to it when watching digital channels.

Before reading the separate manual Read this manual's "Warning" section (P. 2), and understand how to use the TV safely. After that follow the instructions in the "Getting started" section (P. 8 - 12, P. 14 - 17) to connect the aerial and other external devices to the TV, and configure the settings for the TV.



Information for Users on Disposal of Old Equipment and Batteries

ENGLISH

[European Union]

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

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

For more information about collection points and recycling of these products, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

[Business users]

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

[Other Countries outside the European Union]

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



Products



Battery

Notice:

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

Dear Customer,

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

European representative of Victor Company of Japan, Limited is:

JVC Technical Services Europe GmbH

Postfach 10 05 04

61145 Friedberg

Germany

Warning

Please follow all the guidelines below

2

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.

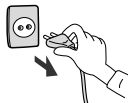
Never cut or damage the power cord!

- 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. 32), unplug the power cord and contact your retailer.

On disposal of the TV!

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



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

- ➔ Unplug the power cord and contact your retailer.

Never place anything on the TV!

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



Never expose to rain or moisture!

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



Never insert objects into the cabinet openings!

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



Never obstruct the ventilation holes!

- It may cause overheating or a fire.

Never listen to headphones at high volume!

- It may damage your hearing.



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

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

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!

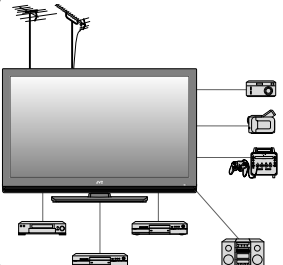
- In order to prevent accidents, ensure that the TV is carried by two or more people.



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

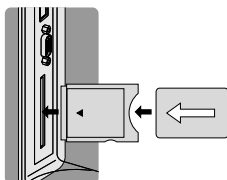
To set up your TV

Please read "Getting started" (P. 8 - 17).
The main descriptions are in the following pages.



Connecting the external devices and aerial **PAGE 9** **PAGE 12**

Choosing a video connection **PAGE 10**



Watch pay-TV digital channels (DR9 only) **PAGE 8**



Initial settings (R90) (DR9) **PAGE 13** **PAGE 14**

Editing analogue channels **PAGE 16**

• If you want to edit the digital channels, refer to "Edit PR (Edit PR List)" (P. 9) on the separate manual "WATCHING DIGITAL CHANNELS". (DR9 only)

Contents

Analogue terrestrial broadcasting (VHF / UHF) and analogue cable TV
➔ Analogue channels
Digital terrestrial broadcasting (DVB-T) ➔ Digital channels (DR9 only)

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DR9 only: WATCHING DIGITAL CHANNELS (Separate manual)

• Watching digital channels	2	• Troubleshooting.....	16
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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 analogue channels" (P. 19)



Watch video etc. "Watching videos / DVDs" (P. 21)



Colour buttons:

Select a page when viewing teletext.
Operate functions in menus.



Switch between "TV / STB / DVD / AUDIO".
(P. 24)



Return to TV. (R90 only)



Switch between digital / analogue channels. (DR9 only)



Display on-screen menu. "Customising your TV" (P. 26)



Select and confirm settings in menus.



Change channel / page.



Volume control.



View teletext. "Viewing teletext" (P. 20)



To the previous channel.



Hold the current page when viewing teletext. (P. 21)



R90



Display your favourite list when viewing teletext. (P. 20)



Display hidden information when viewing teletext. (P. 21)



Display hidden information when viewing teletext. (P. 21)
Switch between TV / Radio when watching digital channels. (DR9 only)



Enlarge the text when viewing teletext. (P. 21)



Enlarge the text when viewing teletext. (P. 21)
Display the Electronic Programme Guide when watching digital channels. (DR9 only)



Choose a favourite channel when viewing analogue channels. (P. 19)



Display sub-pages when viewing teletext. (P. 20)



Save your favourite page when viewing teletext. (P. 20)



Switch briefly from teletext to TV when viewing teletext. (P. 21)



Display the index page when viewing teletext. (P. 21)



Display the index page when viewing teletext. (P. 21)
View subtitles when watching digital channels. (DR9 only)



Change the aspect ratio. (P. 22)



Turn on "3D Cinema Sound". (P. 22)



Change the sound mode or language. (P. 23)
Change the audio language when viewing digital channels. (DR9 only)



Set the sleep timer. (P. 23)

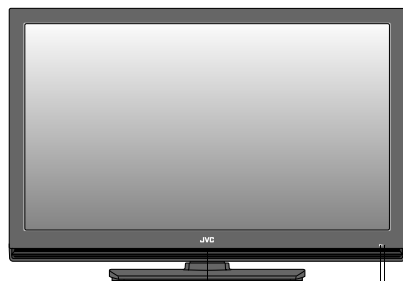
Note

- For buttons that can be used to operate other devices, refer to "Configuring your remote control" (P. 24).
- For more details on using the remote control when viewing digital channels, refer to the separate manual "WATCHING DIGITAL CHANNELS". (DR9 only)



DR9

Names and functions of parts



Remote control sensor

Eco Sensor

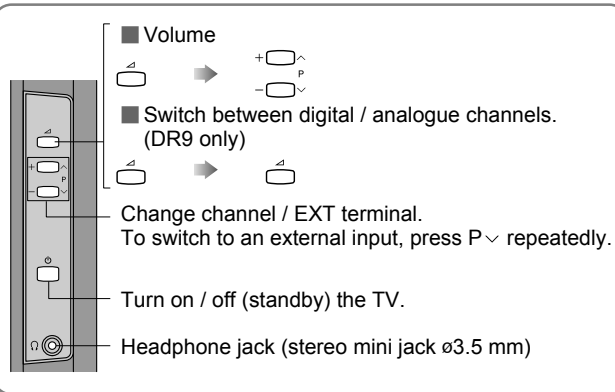
⇒ "What is "Eco Sensor"?"
(P. 34)

Power lamp

ON: Lit

OFF: Unlit

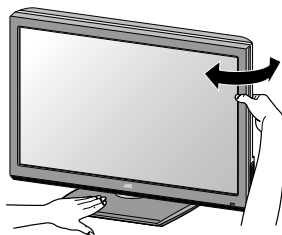
- When "Power Lamp" is set to "Off", the Power lamp will not light up.
⇒ "Power Lamp" (P. 29)
- The power lamp will blink before the "Record" timer starts to function.
When the "Record" timer is in progress, the power lamp lights even though the TV is off (standby). For details, refer to "Timer" (P. 11) on the separate manual "WATCHING DIGITAL CHANNELS". (DR9 only)



Note

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

Change the direction of TV

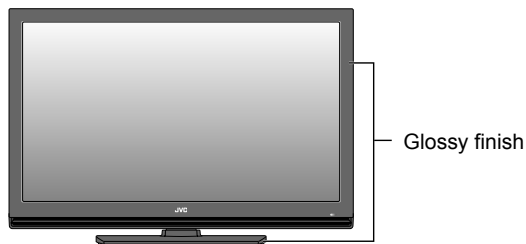


Handling the glossy finish of the TV

Be careful when handling the glossy finish of the TV

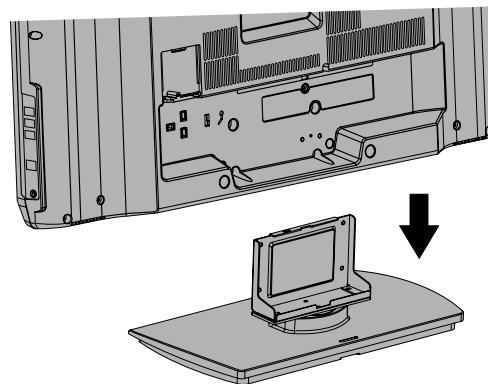
The glossy finish of the TV scratches easily.

- 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.

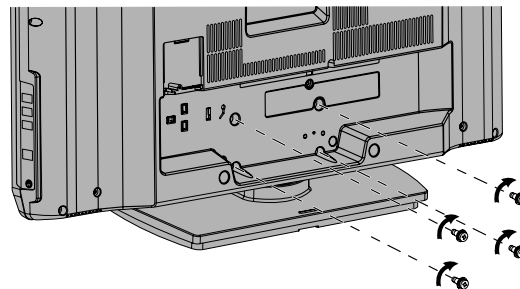


Attach the stand to the TV (LT-32R90/DR9BU only)

1



2



Getting started

Please read P. 9 - 17 of this manual to set up your TV.

Check accessories



Remote control
R90: RM-C1932
DR9: RM-C1931



"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.

- Stand and screws are also included. For details, refer to page 7.
(LT-32R90/DR9BU only)

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:

LT-32R90/DR9BU:

M5 x 4, 200 mm x 200 mm

Depth of screw hole is 7 mm from the surface of the TV.

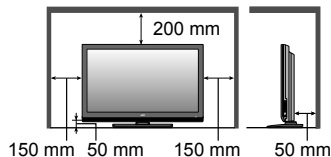
LT-42R90/DR9BU:

M5 x 4, 400 mm x 200 mm

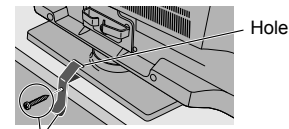
Depth of screw hole is 13 mm from the surface of the TV.

Installation requirements

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



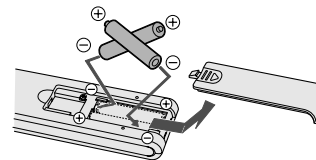
- To prevent the TV from falling, thread the belt through the hole on the back of the stand and secure it to the TV rack, etc.



Belt and screw (not provided)

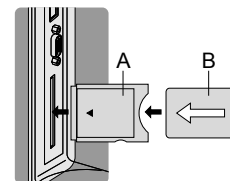
Insert the batteries

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



Watch pay-TV digital channels (DR9 only)

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.



- Unplug the power cord
- Insert "B" into "A".
- Insert "A".
- Plug the power cord, and turn the power on.
- Perform necessary settings using "Common Interface".



WATCHING DIGITAL CHANNELS
"Common Interface" (P. 13)

- Pay-TV analogue channels cannot be watched.

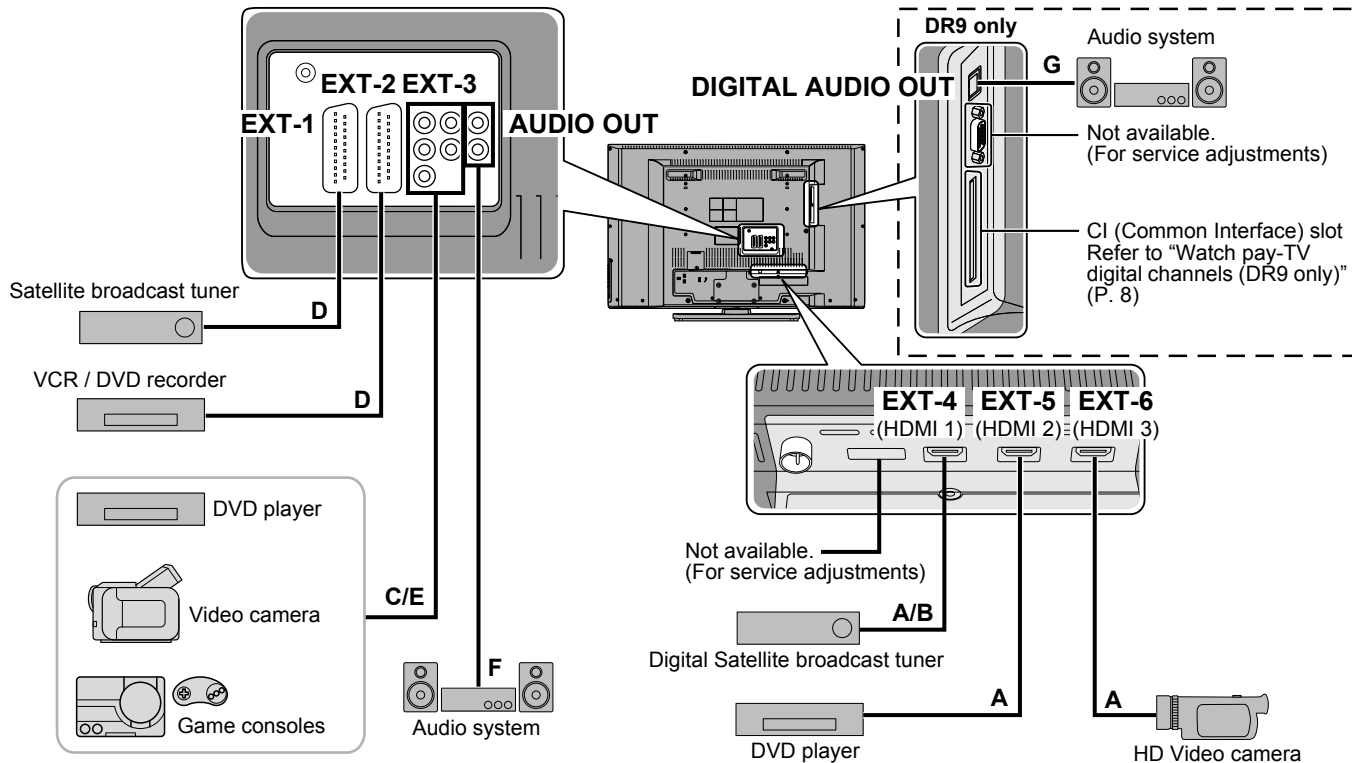
Connecting your external devices

Make sure all the devices and the TV are turned off.

The names of the devices shown in the following illustration are examples. The alphabets A, B, C, D, E, F and G indicate the type of connections. Refer to P. 10 - 11 to find the best connections that are possible with your devices.

Note

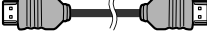
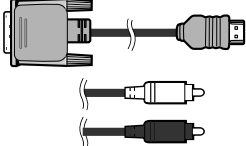
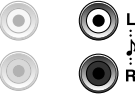
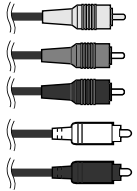
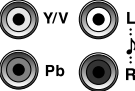
- Please read the user manuals of each device before setting up.
- Connecting cables are not supplied with this TV.

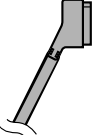
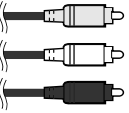
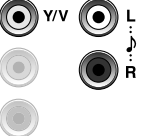


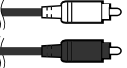
Choose your best connection

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.

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

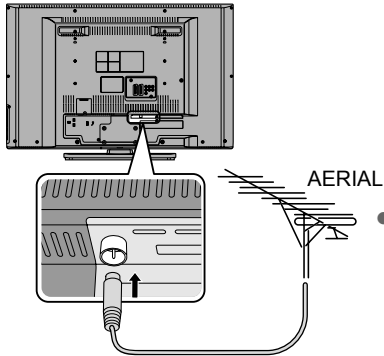
Picture quality	Other devices	Connecting cables	Connect to your TV	Available signals	Notes
Best  Better	 HDMI	 HDMI cable	 EXT-4 EXT-5 EXT-6	Input - HDMI (digital) - SD: 576i (625i), 480i (525i) - ED: 576p (625p), 480p (525p) - HD: 1080i (1125i), 1080p (1125p) / 24Hz, 1080p (1125p) / 50Hz, 1080p (1125p) / 60Hz, 720p (750p) - Audio L / R	If there is no sound, change the "HDMI-1 Audio Setting" (P. 30).
	 DVI  Audio	 DVI-HDMI cable, Audio cable	 EXT-4  EXT-3: L and R jacks	Input - DVI (digital) - ED: 576p (625p), 480p (525p) - HD: 1080i (1125i), 1080p (1125p) / 24Hz, 1080p (1125p) / 50Hz, 1080p (1125p) / 60Hz, 720p (750p) - Audio L / R (analogue)	If there is no sound, change the "HDMI-1 Audio Setting" (P. 30).
	 Component video and Audio	 Component video cable, Audio cable	 EXT-3	Input - Component (analogue) - SD: 576i (625i), 480i (525i) - ED: 576p (625p), 480p (525p) - HD: 1080i (1125i), 720p (750p) - Audio L / R (analogue)	Change the EXT-3 setting from "⊙⊙⊙" (composite) to "⊙⊙⊙⊙" (component). (P. 31)

D				Input ● Composite video (analogue) ● RGB input (analogue) ● Audio L / R (analogue) Output ● Analogue TV out (composite video and audio L/R) (analogue)	
				Input ● Composite video (analogue) ● S-Video (analogue) ● Audio L / R (analogue) Output ● Dubbing out (composite video and audio L/R) (analogue)	If you want to input the S-Video signal, change the "Ext Setting". (P. 31) Select the dubbing source in "Ext Setting". (P. 31)
E				Input ● Composite video (analogue) ● Audio L / R (analogue)	Change the EXT-3 setting from " " (component) to " " (composite). (P. 31)

	Audio system	Connecting cables	Connect to your TV	Available signals	Notes
F	 Audio input	 Audio cable	 AUDIO OUT	Output ● Audio L / R (analogue)	You cannot listen to the sound from a device with connection A and B.
G	 Optical input	 Optical audio cable	 DIGITAL AUDIO OUT (DR9 only)	Output ● Audio (digital) (16 bit linear PCM or Dolby Digital) "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.	The sound from the analogue channels and the external devices cannot be output. Please refer to the "Dolby Digital" output from the DIGITAL AUDIO OUT terminal" (P. 18) on the separate manual "WATCHING DIGITAL CHANNELS".

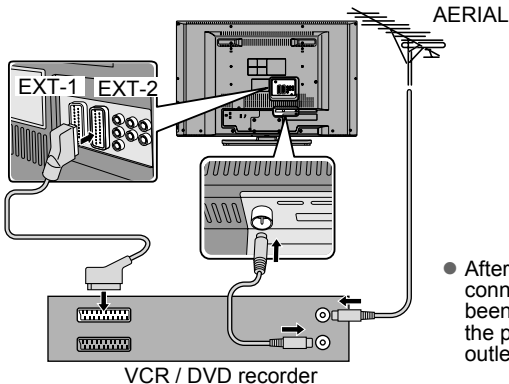
Connecting the aerial

Connect 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 (DR9 only)

When using an indoor aerial which requires external power, set "Antenna Power" to "On" in step 3 of "Initial settings" (P. 14). The TV will supply DC 5V, 50mA (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. 13) on the separate manual "WATCHING DIGITAL CHANNELS".

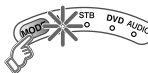
Initial settings (R90)

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



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

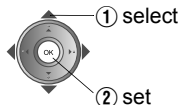


2 Start initial settings



- If the JVC logo does not appear, refer to "To perform initial settings again".

3 Select a language

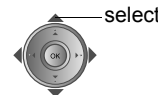


- To the previous screen → **BACK**
- Exit → **MENU**
- To perform initial settings again

Take note that performing initial settings again will cause all channel related settings to be lost. Press the "MENU" button to display the menu, then press and hold the number button "1" for more than 3 seconds to start initial settings.

- If you wish to make changes later
→ "Language" and "Auto Program" (P. 30)

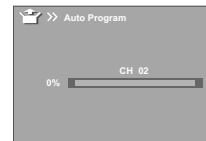
4 Select the country of installation



- If the country you want to select is not available, press the yellow button to check the next page.

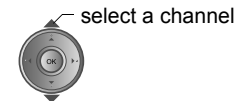
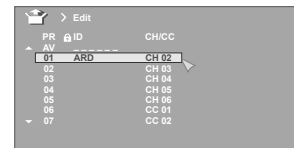
5 Automatically register channels

(blue)



- If "ACI Start" appears, start ACI. The cable channels will be registered quickly. For details, refer to "What is "ACI" (Automatic Channel Installation)?" (P. 34).

6 Check what was registered



- To edit channels
→ "Editing analogue channels" (P. 16)

7 Finish



JVC
LCD

Initial settings (DR9)



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



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



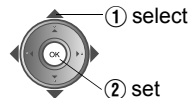
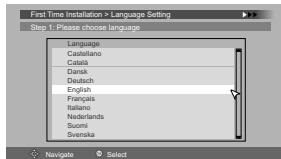
2 Start initial settings



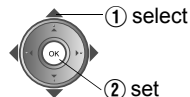
- If the JVC logo does not appear, refer to "To perform initial settings again" (P. 15).

3 Set digital channels

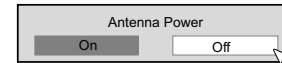
- 1 Select a language for on-screen displays and DTV menus.



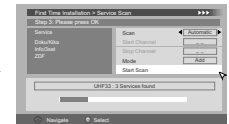
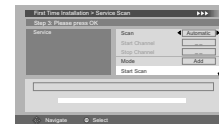
- 2 Select the country of installation. Receivable digital channels will differ depending on the "Country" setting.



- 3 Confirm that the aerial power supply is set to "Off". Select "On" only when using an aerial which requires external power. (P. 12)

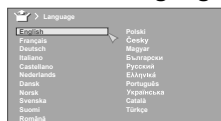


- 4 Register digital channels



- If "No services found" appears, press the "OK" button to proceed to the next step to complete the other settings. Then, refer to "No digital channels" (P. 15).
- You can edit the digital channels after the initial settings. For details, refer to "Edit PR (Edit PR List)" (P. 9) on the separate manual "WATCHING DIGITAL CHANNELS".
- Some digital channels cannot be watched on this TV. For details, refer to page 17 on the separate manual "WATCHING DIGITAL CHANNELS".
- For information on the country and language selections available for digital channel settings, refer to page 1 on the separate manual "WATCHING DIGITAL CHANNELS".

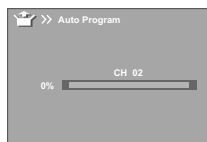
4 Confirm the language for menus (excluding the DTV menus)



- If you want to change the language, select a language and press the "OK" button.

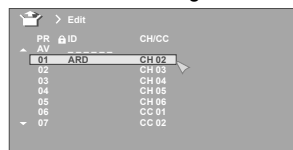
5 Set analogue channels

1 Register analogue channels



- If you do not want to register the analogue channels (including cable TV channels), press the "MENU" button to complete the settings.
- To change the country setting, select a country and press the blue button.
- If "ACI Start" appears, start ACI. The cable channels will be registered quickly. For details, refer to "What is "ACI" (Automatic Channel Installation)?" (P. 34).

2 Check what was registered



select a channel

- To edit channels
➔ "Editing analogue channels" (P. 16)

6 Finish



- To the previous screen ➔ **BACK**

- Exit ➔ **MENU**

- To perform initial settings again

Take note that performing initial settings again will cause all channel related settings and DTV menu settings to be lost. Press the "MENU" button to display the menu, then press and hold the number button "1" for more than 3 seconds to start initial settings. If initial setting does not start, switch to the analogue channel and try again.

- If you wish to make changes later, refer to "Factory Settings" (P. 15), "Service Scan" (P. 14) and "Menu Language" (P. 12) on the separate manual "WATCHING DIGITAL CHANNELS" for digital channel settings, or "Language" (P. 30) and "Auto Program" (P. 30) on this manual for analogue channel settings.

■ No digital channels or "Missing or weak signal" message appears

1 Check the following points

- Is the TV connected correctly to the aerial?
- Change the direction of the indoor aerial.
- Is there a digital channels transmission tower nearby?
➔ Turn "Attenuator" to "On" (P. 30), since the radio waves are too strong.

Note

- "Attenuator" attenuates the radio waves of analogue broadcast as well as those of digital broadcast. If some noise or snow appears when watching an analogue channel, please set "Attenuator" to "Off" temporarily.
- You can check the broadcast signal level of the channel you are watching. For details, refer to "Signal Check" (P. 15) on the separate manual "WATCHING DIGITAL CHANNELS".

2 Set digital channels using "Factory Settings". For details, refer to "Factory Settings" (P. 15) on the separate manual "WATCHING DIGITAL CHANNELS".

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

Editing analogue channels

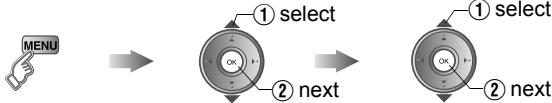
You can edit the analogue channel list.

1 Display the "Edit" menu

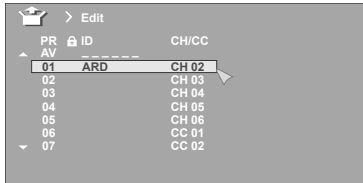
Display the menu bar

Select "Set Up"

Select "Edit/Manual"



2 Edit channels



■ To the previous menu

➡ BACK

■ Exit

➡ MENU

Select channel

select a channel



Select edit function

Insert Delete
ID Manual



Move



Next ➡

3 Finish



Move

Move a channel's position (PR)

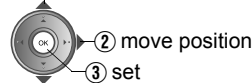


ID

Edit a channel name (ID)

■ Naming a channel

1 select character

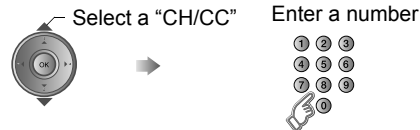


■ When selecting a preset name from the "ID List"



Insert

Insert a new channel directly by entering the CH/CC number



● "CH/CC" list ➡ (P. 35)

● Receives the broadcast signal.

Delete

Delete a channel

● Pressing the button deletes the channel.

DR9 only

- If you cannot display the "Edit" menu, switch to the analogue channel.



■ To edit digital channels

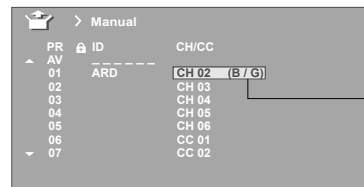
➔ WATCHING DIGITAL CHANNELS
P. 9

■ To register a digital channel manually

➔ WATCHING DIGITAL CHANNELS
"Service Scan" (P. 14)

Manual

Register a new channel

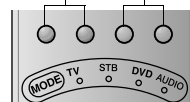


- If necessary, press ► to change the broadcasting system.
➔ "Receivable broadcast systems" (P. 34)



Select a system

① Search a channel Fine tune



② Set



- Press the red or green button. Auto-search begins, and the nearest frequency is imported.
➔ Repeat the previous steps until the desired channel is displayed.

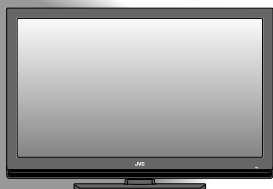
Enjoy your new TV!

18

Watching analogue channels

PAGE

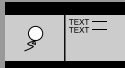
19



Viewing teletext

PAGE

20

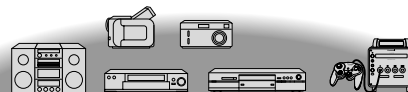


Useful functions

PAGE

22

- Change the aspect ratio
- Change the sound mode or language
- 3D Cinema Sound
- Emphasize the bass sound
- Set the sleep timer



PAGE

21

Watching videos / DVDs



MENU

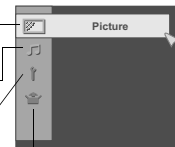


PAGE

26

Customising your TV

- Picture settings (Picture Mode, Features, etc.)
- Sound settings (Stereo/I-I, 3D Cinema Sound, etc.)
- Features settings (Sleep Timer / Child Lock, etc.)
- Set Up settings (Auto Program, Language, etc.)



Watching digital channels

(DR9 only)

WATCHING DIGITAL CHANNELS
P. 2 - 5

Customising your TV

- DTV menu settings (DR9 only)

WATCHING DIGITAL CHANNELS
P. 8 - 15



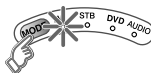
Watching analogue channels



1 Turn on

The power lamp on the TV lights.

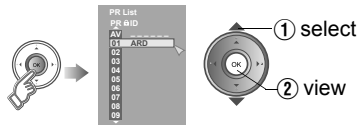
- If the remote control doesn't work, confirm that the mode is set to "TV".
- Press again to turn the screen off and put the TV into standby mode.
- To completely turn off the TV, unplug the power plug.



2 Select a channel

■ Using PR list

PR List



• Close PR List



- Select a page → select

■ Press a channel number

E.g.
1 : 0 → 1
15 : 1 → 5

■ Move up or down a channel

up

down

- To the previous channel → **BACK**

Note

- Switch between mono / stereo / bilingual broadcasting → "Stereo/I-II" (P. 23)
- Using the TV buttons → "Names and functions of parts" (P. 6).

DR9 only

- Switch between digital / analogue channels



Note

- To soften the picture for daily use, change the setting in "Picture Mode" → "Picture Mode" (P. 26)

Channel information and clock

Channel information



- Pressing the button once displays the "PR List".
- Time is displayed only when teletext broadcasting can be received.

Register a channel to a button (Favourite channel)

While the channel is displayed



Press the number to register it on



Note

The following "Picture" and "Sound" menu settings applied to the channel will be stored in the favourite channel as well.

- Picture Mode / Digital VNR / DigiPure (P. 26 - 27)
- Surround / Bass Boost / MaxxBass (P. 28)

■ Recall the favourite channel



■ Check your favourite channels

- Press "i" and confirm that the channels you have registered have a beside them.

- Delete a favourite channel → "Favourite Setting" (P. 29)

Viewing teletext

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



2 Enter a teletext page

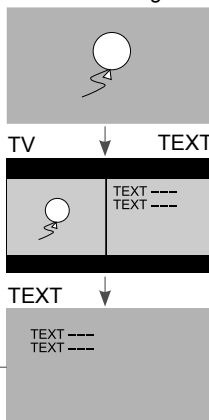


■ Move up or down a page

P ^ up

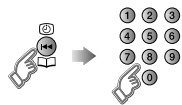
P v down

When watching TV



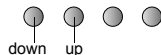
View sub-pages

Display sub-pages



■ Move up or down a page

(red) (green)



■ Release → Press " " again

F.T/L

Bookmark your favourite page

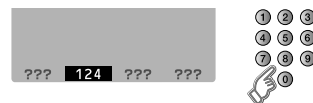
1 Display your favourites list



2 Select a coloured button to save your page to



3 Enter the number of the page to save



4 Save



■ Exit →



■ Recall your favourite page

1 Display your favourites list



2 Press a coloured button

(red) (green) (yellow) (blue)



Hold the current page

Hold the current page  Release → Press “” again

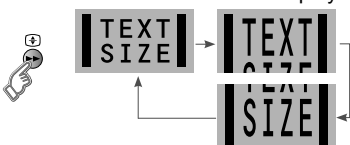
Reveal hidden pages

Display hidden information (answers to quizzes, etc.)



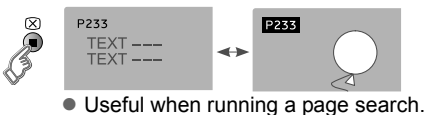
Enlarge the text

Double the size of the displayed text



Switch briefly from teletext to TV

Leave the current page open, while you switch to watch TV



- Useful when running a page search.

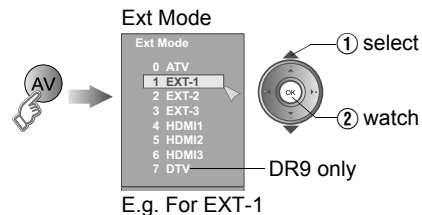
To the index page

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

(R90)

- Press the “TV” button or select “ATV” from the “Ext Mode” menu.

(DR9)

- Press the “TV/DTV” button or select “DTV” from the “Ext Mode” menu for digital channels.
- Select “ATV” from the “Ext Mode” menu for analogue channels.

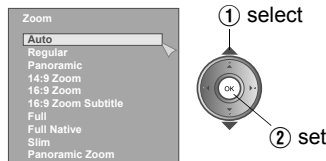


Zoom

Change the aspect ratio

1

2 Select the aspect ratio



3



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

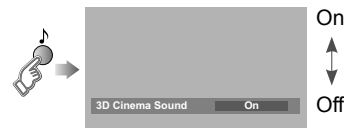
- When “Slim” is selected, a 4:3 image stretched out to 16:9 will revert back to its original aspect ratio with black bands.
- When “Panoramic Zoom” is selected, a 4:3 image with black bands will be stretched out to 16:9.
- “Full Native” ⇒ “What is “Full Native?”” (P. 34)
- Using “Auto” ⇒ “Auto in “Zoom”” (P. 34)

Note

- Depending on the signal formats, some zoom modes will be displayed in black and will not be selectable.
- 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.

3D Cinema Sound

Enjoy ambient sound



- You can adjust the “3D Cinema Sound” settings in the “3D Cinema Sound” menu. (P. 28)
- “3D Cinema Sound” does not work with headphones.

Other sound functions

MaxxBass (P. 28)

Compensates low frequencies to widen the frequency band.

- “MaxxBass” does not work with headphones.

Hyper Sound (P. 28)

Ambient sound.

- “Hyper Sound” and “3D Cinema Sound” cannot be set to “On” simultaneously.
- “Hyper Sound” does not work with headphones.



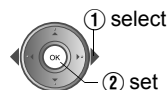
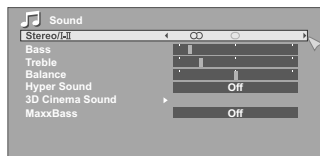
Stereo/I-II

Change the sound mode or language (analogue channels)

1



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. 5) on the separate manual "WATCHING DIGITAL CHANNELS". (DR9 only)



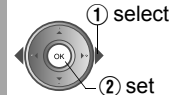
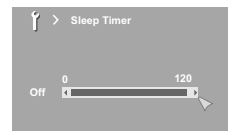
Sleep Timer

Set a time for the TV to turn off automatically

1



2 Set the time



- Cancel ➔ Set the time to "0".
- Remaining time ➔ Display this menu again.

Other functions

Picture Mode (P. 26)

You can select a preset picture setting according to the brightness of your room or when playing video games.

Eco Sensor (P. 29)

Automatically adjust the picture contrast according to the brightness of the room.

- There are more functions available in the menus, see "Customising your TV" (P. 26 - 31).

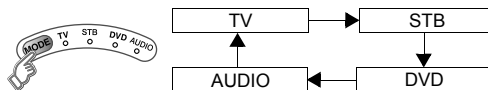
Configuring your remote control



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

Configure your remote control.

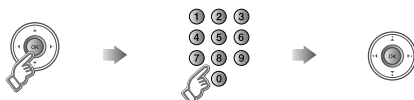
- 1 Turn on the device manually.
- 2 Switch the remote control mode to a mode that matches your device. Refer to the table on the right to select an appropriate mode.



- 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.



Press and hold Enter four digit number Release the button

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

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

Note

- If your device does not respond, try all the available codes for the device's brand.
- If none of the code works, or the brand is not listed, refer to "Using the search code function" (P. 25).

MODE	Applicable devices
TV	This TV 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

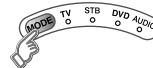
This function searches through the codes one by one, beginning from the first code in the list.

- 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 **⏻** and **BACK** until the mode indicator blinks.
- 4 Point the remote control at your device and press **⏻**. If there is no response, try the next code by pressing **▶** and press **⏻** again. Repeat the process until your device turns off.**
- 5 Press **BACK** to register the code.**
The code is now set. Confirm that the mode indicator goes out.

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

Button functions

■ Change the remote control mode

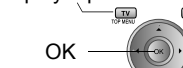


■ Turn on/off the device



■ Navigate the menus

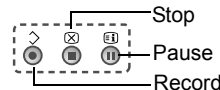
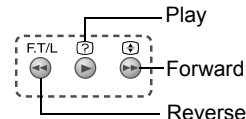
Display top menu



Display menu

Back to previous menu

■ Playback / Record, etc.



■ Display the Electronic Programme Guide

⇒ Press **GUIDE**

■ Display information ⇒ Press **ⓘ**

■ Mute ⇒ Press **⏸**

■ Volume ⇒ Press **⏮** **⏭**

■ Select a surround mode ⇒ Press **🔊**

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



Customising your TV



Press “i” to hide the bottom area of the menu (excluding DTV menus). Press again to display it.

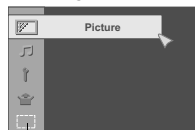
Note

- Depending on the situation (analogue channels, digital channels, video signal formats, external inputs, etc.), some items will be displayed in black colour and will not work. You will not be able to change their setting as well.

1 Display the menu bar



2 Display the desired menu



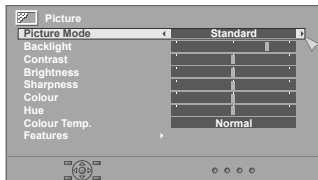
select



DTV (DTV menu)
(DR9 only)

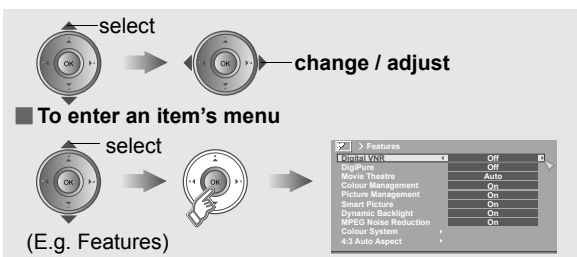
WATCHING DIGITAL CHANNELS
P. 8 - 15

3 Change or adjust the setting



- The menu (excluding DTV menus) disappears after one minute of inactivity.

- To the previous screen

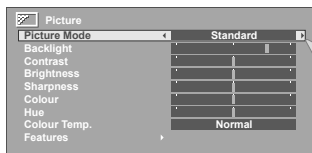


To enter an item's menu

4 Close the menu



Picture



Picture Mode

You can select a preset picture setting according to the brightness of your room or when playing video games.

- Bright** : in a fairly bright room
- Soft** : in a dark room
- Standard** : in a room with standard brightness
- Game Mode** : when playing video games

- You can make further adjustments to the selected preset “Picture Mode” to your liking.

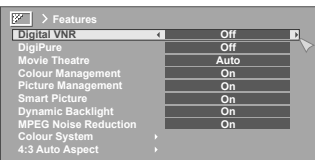
- Backlight** Backlight brightness (Darker ⇔ Brighter)
- Contrast** Contrast (Lower ⇔ Higher)
- Brightness** Brightness (Darker ⇔ Brighter)
- Sharpness** Sharpness (Softer ⇔ Sharper)
- Colour** Colour (Lighter ⇔ Deeper)
- Hue** Tint (Reddish ⇔ Greenish) (NTSC only)
- Colour Temp.** Colour temperature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

- To return to the default adjustments ➡ (blue)

Features

➡ “Features (sub menu)” (P. 27)

> Features (sub menu)



Note

- "Smart Picture" is not available when "Picture Mode" is set to "Bright" (P. 26).

Digital VNR

Reduce noise

On : Maintain constant effect **Off** : Function is turned off level

Auto* : Automatically adjusts the effect level

*"Auto" can be selected only when viewing analogue channels.

DigiPure

For natural-looking outlines

On : When the picture loses sharpness **Off** : Function is turned off sharpness

Movie Theatre

For smooth cinema film

On : Function is always on **Off** : Function is turned off

Auto : Turn on / off the function automatically

Colour Management

Maintain a natural colour balance (On / Off)

Picture Management

Make it easier to view bright / dark pictures (On / Off)

Smart Picture

Make it easier to view white areas (On / Off)

Dynamic Backlight

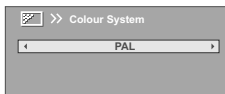
Reduce the brightness of the backlight when the screen is dark (On / Off)

MPEG Noise Reduction

Reduce MPEG video noise (On / Off)

Colour System

When there is no colour, change the colour system



PAL : Western Europe

SECAM : Eastern Europe / France

NTSC3.58* : USA 3.58 MHz

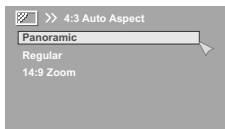
NTSC4.43* : USA 4.43 MHz

Auto* : When watching videos etc.

*Select in video mode only.

4:3 Auto Aspect

Select a default aspect ratio for Auto in "Zoom" (P. 22)



Panoramic

Regular

14:9 Zoom

16 : 9

4 : 3

14 : 9

Sound



Note

- “Hyper Sound” and “3D Cinema Sound” cannot be set to “On” simultaneously.

Stereo/I-II

Select stereo, monaural or language (analogue channels)
(O: Monaural / : Stereo / I: SUB1 / II: SUB2)

Bass

Low tones (Weaker ⇄ Stronger)

Treble

High tones (Weaker ⇄ Stronger)

Balance

Speaker balance (Left stronger ⇄ Right stronger)

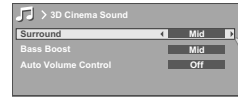
Hyper Sound

Ambient sound (On / Off)

- “Hyper Sound” does not work with headphones.

3D Cinema Sound

Adjust “3D Cinema Sound” setting to your liking



Surround:

Adjust the surround level (Low / Mid / High)

Bass Boost:

Emphasize the bass sound (Low / Mid / High)

Auto Volume Control:

Maintains a uniform sound volume even if the sound becomes loud suddenly during commercial breaks etc. (On / Off)

- To turn on / off the “3D Cinema Sound”, refer to “3D Cinema Sound” (P. 22).
- “3D Cinema Sound” does not work with headphones.

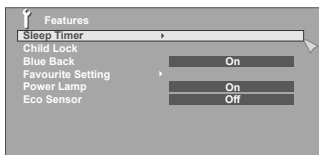
MaxxBass

Compensates low frequencies to widen the frequency band (Low / High / Off)

- “MaxxBass” does not work with headphones.

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

Features



Sleep Timer

Timer for turning off the TV (P. 23)

Child Lock

Stop children from watching specific channels (analogue channels)

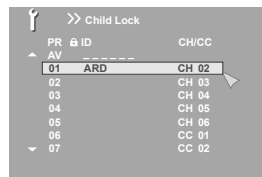
■ Lock a channel

1 Display the menu



- OK button does not work.

2 Select a channel and lock it. (🔒 : locked)



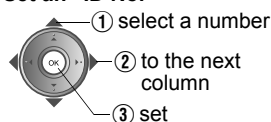
■ View a locked channel

Use the number buttons to enter the channel number.

When "🔒" appears, press "i" and enter your "ID No." with the number buttons.

- If you forget your "ID No.", perform step 1 again.

Set an "ID No."



Blue Back

Displays a blue screen and mutes the sound when the signal is weak or absent (On / Off) (analogue channels)

Favourite Setting

Remove a channel from the Favourite channel list (analogue channels)

■ For more details

- ➔ "Register a channel to a button (Favourite channel)" (P. 19)



Power Lamp

Lights the power lamp (P. 6) while the TV is on (On / Off)

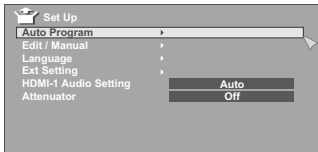
Eco Sensor

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

■ For more details

- ➔ "What is "Eco Sensor"?" (P. 34)

Set Up



Note

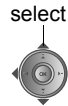
- "Attenuator" is not available for R90 and will not be displayed in the "Set Up" menu.

Auto Program

Automatically registers the channels (analogue channels)

- To change the country, perform step 1 only.

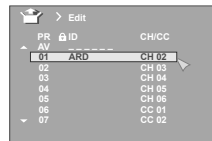
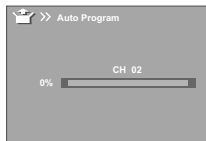
1 Select the country of installation



- For the next page (yellow)

2 Start "Auto Program"

(blue)



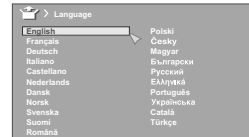
- If "ACI Start" appears, select and start settings. (This will set up cable television channels.)
➡ "What is "ACI" (Automatic Channel Installation)?" (P. 34)
- Edit channels
➡ "Editing analogue channels" (P. 16)

Edit/Manual

- ➡ "Editing analogue channels" (P. 16)

Language

Select a language for the menus (excluding DTV menus)



Ext Setting

- ➡ "Setting external terminals" (P. 31)

HDMI-1 Audio Setting

Set to "Digital" or "Auto" for HDMI devices, or "Analogue" or "Auto" for DVI devices. (Not available for EXT-5 and EXT-6.)

Attenuator (DR9 only)

Select "On" when digital channels are not received because of too strong radio waves (On / Off)

Note

- "Attenuator" attenuates the radio waves of analogue broadcast as well as those of digital broadcast. If some noise or snow appears when watching an analogue channel, please set "Attenuator" to "Off" temporarily.

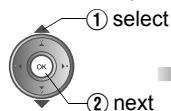
Setting external terminals

1 Display the "Ext Setting" menu

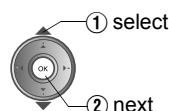
Display the menu bar



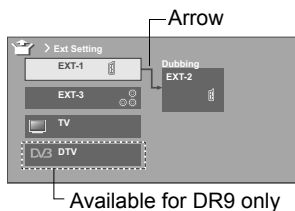
Select "Set Up"



Select "Ext Setting"



2 Select an "EXT" or arrow, and then proceed with setting



Select an "EXT"



Select the arrow



3 Finish



- HDMI terminal setting ➡ "HDMI-1 Audio Setting" (P. 30)

S-In

Switch to S-Video input

(yellow)



- "S- " mark will appear at the selected "EXT".
- The device selection display will change from "E2" to "S2".

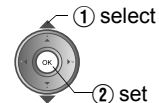
■ Cancel this mode ➡ Press " " (yellow) again

ID List

Edit names of connected devices

- ① Show the name list
- ② Select a name from the list

(blue)



■ Clear the name ➡ Select the blank space in the list

Dubbing

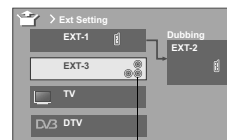
Set up dubbing on "EXT-2"



select the dubbing source

Switch between component and composite input (Pr/Pb/Y, V)

- ① Select "EXT-3"



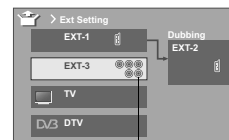
V

select



- ② Set to component input

(yellow)



Pr/Pb/Y

■ Return to composite input ➡ Press " " (yellow) in ② again.

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 "Attenuator" set to "On"?
➔ "Attenuator" (P. 30) (DR9 only)

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

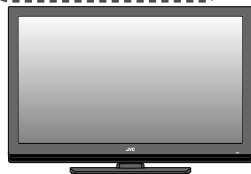
(Doubling of images)



- 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

For problems concerning digital channels (DR9 only)

➔ **WATCHING DIGITAL CHANNELS**
P. 16 - 17



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.
Screen Aspect ratio changes unintentionally	● Press "ZOOM" to return to your settings. (P. 22)
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.
Picture Poor picture quality	● Change the "Picture Mode" setting. (P. 26) ● Unnatural colour >>> Adjust "Colour" and "Backlight". (P. 26) Check your "Colour System". (P. 27) ● Noise >>> Set to the following functions. Picture Mode: Standard (P. 26) Digital VNR: On (P. 27) DigiPure: Off (P. 27) ● Dull picture >>> Set to the following functions. Picture Mode: Bright (P. 26) Digital VNR: Off (P. 27) DigiPure: On (P. 27)
Strange picture when using an external device	● If you connected S-Video output device, check the "S-In" setting. (P. 31) ● 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).

	Problem	Actions
Sound	Poor sound	● Adjust "Bass" and "Treble". (P. 28) ● If receiving a poor signal in "Stereo/I-II", switch to "O" (monaural). (P. 23) ● Change the broadcasting system using "Manual". (P. 17)
	No sound from the audio component	● Audio signals received from EXT-4, EXT-5 and EXT-6 cannot be sent to the AUDIO OUT terminal.
	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 "Hyper Sound" and "3D Cinema Sound" to "Off". (P. 22, 28)
Functions	Some functions do not work	● It is not a malfunction. Depending on the situation, some function items will be displayed in black colour and will not work. (P. 26)
HDMI	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.
	No picture, no sound	● Use the cable marked with HDMI logo. 
	No sound	● Check if the device is compliant with HDMI. ● Set "HDMI-1 Audio Setting" to "Digital" or "Auto" for HDMI devices, or "Analogue" or "Auto" for DVI devices. (Not available for EXT-5 and EXT-6.) (P. 30)

	Problem	Actions
HDMI	Green and distorted screen	● Wait a little for the signal to stabilize when switching the signal format for an HDMI device.
Error message	"ACI Error" appears	● Press ◀ to start "ACI" again. If you still receive the "ACI Error" after numerous tries, press ▶ to cancel "ACI".

Technical information

What is "ACI" (Automatic Channel Installation)?

Some cable companies transmit a signal called "ACI" which contains information that allows TV channels to be registered automatically on your TV.

When an ACI signal is received, "ACI Start / ACI Skip" appears in the "Auto Program" screen.

Receivable broadcast systems

Depending on the country selected during "Auto Program", the receivable broadcast system differs.

- UNITED KINGDOM: Receive only PAL-I.

- FRANCE: Can receive SECAM-L.

To receive SECAM-L in countries other than France:

- 1) Change the "Country" to "France" in "Auto Program". (P. 30)
- 2) Press the "BACK" button to return to the menu and enter the channel using "Insert" or "Manual". (P. 16, 17)

Auto in "Zoom"

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

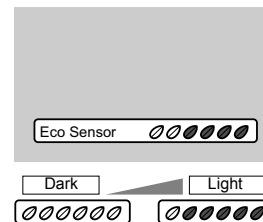
- The aspect ratio will turn to the ratio obtained from WSS (Wide Screen Identification Signal), video signal, or control signal of the external devices. Without receiving the aspect information, it will be the setting in "4:3 Auto Aspect". (P. 27)

What is "Eco Sensor"?

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

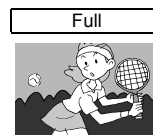
- Set "Eco Sensor" ➡ "Eco Sensor" (P. 29)
- Make sure not to block the Eco Sensor on front of the TV (P. 6)
- To fully reduce eyestrain and the power consumption of this TV. Set to the following functions.
Eco Sensor: On or Demo (P. 29)
Smart Picture: On (P. 27)

- Using "Demo" in "Eco Sensor", you can display the effect of the "Eco Sensor" on the screen



What is "Full Native"?

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



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

DR9 only

For more information, please read the separate manual (WATCHING DIGITAL CHANNELS).

"Technical Information" (P. 17 - 18)

“CH/CC” list

To use the “Insert” function (P. 16), find the “CH/CC” number corresponding to the TV’s Channel number from this table.
When the Country setting is “France”, select a three-digit CH/CC number.

CH	Channel
CH 02/CH 202	E2, R1, IR A
CH 03/CH 203	E3, ITALY A, IR B
CH 04/CH 204	E4, ITALY B, R2, IR C
CH 05/CH 205	E5, ITALY D, R6, IR D
CH 06/CH 206	E6, ITALY E, R7, IR E
CH 07/CH 207	E7, ITALY F, R8, IR F
CH 08/CH 208	E8, R9, IR G
CH 09/CH 209	E9, ITALY G
CH 10/CH 210	E10, ITALY H, R10, IR H
CH 11/CH 211	E11, ITALY H+1, R11, IR J
CH 12/CH 212	E12, ITALY H+2, R12
CH 21/CH 221	E21, R21
CH 22/CH 222	E22, R22
CH 23/CH 223	E23, R23
CH 24/CH 224	E24, R24
CH 25/CH 225	E25, R25
CH 26/CH 226	E26, R26
CH 27/CH 227	E27, R27
CH 28/CH 228	E28, R28
CH 29/CH 229	E29, R29
CH 30/CH 230	E30, R30
CH 31/CH 231	E31, R31
CH 32/CH 232	E32, R32
CH 33/CH 233	E33, R33
CH 34/CH 234	E34, R34
CH 35/CH 235	E35, R35
CH 36/CH 236	E36, R36
CH 37/CH 237	E37, R37
CH 38/CH 238	E38, R38
CH 39/CH 239	E39, R39
CH 40/CH 240	E40, R40
CH 41/CH 241	E41, R41
CH 42/CH 242	E42, R42
CH 43/CH 243	E43, R43
CH 44/CH 244	E44, R44
CH 45/CH 245	E45, R45
CH 46/CH 246	E46, R46
CH 47/CH 247	E47, R47
CH 48/CH 248	E48, R48
CH 49/CH 249	E49, R49

CH	Channel
CH 50/CH 250	E50, R50
CH 51/CH 251	E51, R51
CH 52/CH 252	E52, R52
CH 53/CH 253	E53, R53
CH 54/CH 254	E54, R54
CH 55/CH 255	E55, R55
CH 56/CH 256	E56, R56
CH 57/CH 257	E57, R57
CH 58/CH 258	E58, R58
CH 59/CH 259	E59, R59
CH 60/CH 260	E60, R60
CH 61/CH 261	E61, R61
CH 62/CH 262	E62, R62
CH 63/CH 263	E63, R63
CH 64/CH 264	E64, R64
CH 65/CH 265	E65, R65
CH 66/CH 266	E66, R66
CH 67/CH 267	E67, R67
CH 68/CH 268	E68, R68
CH 69/CH 269	E69, R69
CH 102	F2
CH 103	F3
CH 104	F4
CH 105	F5
CH 106	F6
CH 107	F7
CH 108	F8
CH 109	F9
CH 110	F10
CH 121	F21
CH 122	F22
CH 123	F23
CH 124	F24
CH 125	F25
CH 126	F26
CH 127	F27
CH 128	F28
CH 129	F29
CH 130	F30
CH 131	F31

CH	Channel
CH 132	F32
CH 133	F33
CH 134	F34
CH 135	F35
CH 136	F36
CH 137	F37
CH 138	F38
CH 139	F39
CH 140	F40
CH 141	F41
CH 142	F42
CH 143	F43
CH 144	F44
CH 145	F45
CH 146	F46
CH 147	F47
CH 148	F48
CH 149	F49
CH 150	F50
CH 151	F51
CH 152	F52
CH 153	F53
CH 154	F54
CH 155	F55
CH 156	F56
CH 157	F57
CH 158	F58
CH 159	F59
CH 160	F60
CH 161	F61
CH 162	F62
CH 163	F63
CH 164	F64
CH 165	F65
CH 166	F66
CH 167	F67
CH 168	F68
CH 169	F69

CC	Channel
CC 01/CC 201	S1
CC 02/CC 202	S2
CC 03/CC 203	S3
CC 04/CC 204	S4
CC 05/CC 205	S5
CC 06/CC 206	S6
CC 07/CC 207	S7
CC 08/CC 208	S8
CC 09/CC 209	S9
CC 10/CC 210	S10
CC 11/CC 211	S11
CC 12/CC 212	S12
CC 13/CC 213	S13
CC 14/CC 214	S14
CC 15/CC 215	S15
CC 16/CC 216	S16
CC 17/CC 217	S17
CC 18/CC 218	S18
CC 19/CC 219	S19
CC 20/CC 220	S20
CC 21/CC 221	S21
CC 22/CC 222	S22
CC 23/CC 223	S23
CC 24/CC 224	S24
CC 25/CC 225	S25
CC 26/CC 226	S26
CC 27/CC 227	S27
CC 28/CC 228	S28
CC 29/CC 229	S29
CC 30/CC 230	S30
CC 31/CC 231	S31
CC 32/CC 232	S32
CC 33/CC 233	S33
CC 34/CC 234	S34
CC 35/CC 235	S35
CC 36/CC 236	S36
CC 37/CC 237	S37
CC 38/CC 238	S38
CC 39/CC 239	S39
CC 40/CC 240	S40

CC	Channel
CC 41/CC 241	S41
CC 75/CC 275	X
CC 76/CC 276	Y, R3
CC 77/CC 277	Z, ITALY C, R4
CC 78/CC 278	Z+1, R5

CC	Frequency (MHz)
CC 110	116-124
CC 111	124-132
CC 112	132-140
CC 113	140-148
CC 114	148-156
CC 115	156-164
CC 116	164-172
CC 123	220-228
CC 124	228-236
CC 125	236-244
CC 126	244-252
CC 127	252-260
CC 128	260-268
CC 129	268-276
CC 130	276-284
CC 131	284-292
CC 132	292-300
CC 133	300-306
CC 141	306-311
CC 142	311-319
CC 143	319-327
CC 144	327-335
CC 145	335-343
CC 146	343-351
CC 147	351-359
CC 148	359-367
CC 149	367-375
CC 150	375-383
CC 151	383-391
CC 152	391-399
CC 153	399-407
CC 154	407-415
CC 155	415-423
CC 156	423-431
CC 157	431-439
CC 158	439-447
CC 159	447-455
CC 160	455-463
CC 161	463-469

Specifications

Model	LT-32R90BU	LT-42R90BU	LT-32DR9BU	LT-42DR9BU
Broadcasting systems	CCIR I / B / G / D / K / L (See "Receivable broadcast systems", P. 34)			
Colour systems	TV broadcast: PAL, SECAM External input: PAL, SECAM, NTSC 3.58/4.43 MHz			
Channels and frequencies	E2-E12 / E21-E69, F2-F10 / F21-F69, IR A-IR J, ITALY A-H / H+1 / H+2, R1-R12 / R21-R69, S1-S41, X / Y / Z / Z+1 / Z+2, French cable channels (Frequency: 116-172 MHz / 220-469 MHz)		Digital: Frequency: 174-230 MHz / 470-862 MHz* Analogue: E2-E12 / E21-E69, F2-F10 / F21-F69, IR A-IR J, ITALY A-H / H+1 / H+2, R1-R12 / R21-R69, 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	FLOF (Fastext), TOP, WST (standard system)		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)	6 W + 6 W	10 W + 10 W	6 W + 6 W	10 W + 10 W
Speakers	(4 cm x 16 cm) oblique x 2			
Power consumption [standby]	142 W [0.4 W]	210W [0.6W]	150 W [0.4 W]	220W [0.6W]
Screen size (visible area size measured diagonally)	81 cm	105 cm	81 cm	105 cm
Connectors	HDMI x 3, RCA x 7 (component or composite video, audio L/R), Euroconnector (SCART) x 2 For details ➡ (P. 10, 11)		HDMI x 3, RCA x 7 (component or composite video, audio L/R), Euroconnector (SCART) x 2, Optical connector (digital audio output) 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]	1014 x 698 x 296 [1014 x 646 x 109]	791 x 574 x 230 [791 x 521 x 104]	1014 x 698 x 296 [1014 x 646 x 109]
Weights [without stand]	14.0 kg [12.2 kg]	25.8 kg [22.7 kg]	14.4 kg [12.7 kg]	26.1 kg [23.1 kg]
Accessories	(See "Check accessories", P. 8)			

DR9

- 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)
- * 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, Germany, Italy, Netherlands, Spain, Sweden, Switzerland
- We may change the design and specifications without notice.

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) / Kaukosäätimen koodit (s. 24) / Fjernbetjeningskoder (s. 24) / Fjärrkontrollkoder (s. 24)

Cable Set Top Box / Kabeldigitalempfänger / Détecteur Set câblé / Detectorset met kabel / Descodificadores por cable / Decoder (interattivo) / Kaapeli-set-top box / Kabel Set Top Box / Kabel 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	Samsung	1060, 1666	Visiopass	0817

Cable/PVR Combination / Kabel/PVR Komination / Combinaison câble/PVR / Combinatie kabel/PVR / Combinación cable/PVR / Combinazione cavo/PVR / Kaapeli/PVR-yhdistelmä / Kabel/PVR kombination / Kabel/PVR-kombination

Freebox	1482, 1976	Nokia	1569
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Satellite Set Top Box / Satellitdigitalempfänger / Détecteur Set satellite / Detectorset met satelliet / Codificadores por satélite / Decoder satellitare / Satelliitti-set-top box / Satelit Set Top Box / Satellit 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, 1259, 1367, 1418, 1473, 1491	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	Digitality	0607
Alltech	0713	Audioton	0613	Cherokee	1480	Digifusion	1581, 1645, 1743
Allvision	1232, 1334, 1412	Austar	0642, 1259	Chess	0114, 0713, 1334, 1626	Digihome	1284
Amitronica	0713	Avalon	0396	Chili	1718	DigiLogic	1284
Ampere	0132, 0396	Axil	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
Antron	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
Arnion	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	Broco	0713	Crown	1284	Echostar	0167, 0396, 0455, 0610, 0713, 0853, 1200, 1323, 1409, 1418, 1473
		BskyB	0847, 1175, 1662	Cryptovision	0455	Einhell	0132, 0501, 0713

Satellite Set Top Box / Satellitdigitalempfänger / Détecteur Set satellite / Detectorset met satelliet / Codificadores por satélite / Decoder satellitare / Satelliitti-set-top box / Satelit Set Top Box / Satellit 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	Myriad	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	Metz	0173	Orbis	1232, 1334, 1412
Gold Box	0292, 0853	Kilton	0114	Micro	0501, 0607, 0613, 0713, 1294	Orbitech	0114, 0501, 1099, 1100
Golden Interstar	1283	Konig	0607	Micro Elektronik	0713	P/Sat	1232
Goodmans	0455, 1284, 1291, 1591, 1705	KR	0613	Micro Technology	0713	Pace	0200, 0241, 0329, 0455, 0847, 0853, 1175, 1323, 1423, 1693, 1717, 1848, 1850
Granada	0455	Kreiling	0114, 0658, 1480	Micromaxx	0299	Pacific	1284, 1375
Grandin	1626	Kreiselmeier	0173	Microstar	1075	Packard Bell	1111
Grundig	0173, 0847, 0853, 1284, 1291, 1330	Kyostar	0613	Microtec	0713		
Haensel & Gretel	0132	L&S Electronic	0132, 1334				

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

SAT/PVR Combination / SAT/PVR Kombination / Combinaison SAT/PVR / Combinatie SAT/PVR / Combinación SAT/PVR / Combinazione SAT/PVR / SAT/PVR-yhdistelmä / SAT/PVR kombination / SAT/PVR-kombination

@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	Humax	1176, 1427, 1675, 1788, 1808	Orbis	1412	Skymaster	1075
BskyB	1175, 1662			Pace	1175, 1423, 1850	Skyplus	1334, 1412
Bush	1645	Huth	1075	Panasonic	1304	Sunny	1300
Canal Satellite	1339	Hyundai	1075, 1159	Philips	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	Blue Sky	0651, 0672, 0695, 0713, 0790, 0843, 1423	Classic	0730, 1730
A-Trend	0714	Aria	0893	Boghe	1004, 1221	Clatronic	0672, 0675, 0788, 0818, 1233, 1434
Acoustic Solutions	0713, 0730, 1316	Arianet	0818, 0893	Boman	0783, 0898, 1005	Clayton	0713
AEG	0770, 0788, 0790, 1233, 1434, 1923	Aristona	0539, 0646	Bose	2023	Coby	0730, 0852
AFK	1051, 1152, 1923	ASCOMTEC	1923	Brainwave	0770, 1115	Codex	1233
Airis	0672, 1005, 1224, 1321	Asono	1224	Brandt	0503, 0551, 0651	Commax	1321
Aiwa	0533	Astro	1513	Broksonic	0695	Conia	0852
Akai	0788, 0790, 0898, 1115, 1233, 1557, 1695	Atacom	1224		0672, 0699, 0713, 0723, 0730, 0733, 0831, 0879, 1051, 1128, 1140, 1367, 1419, 1436, 1483, 1695, 1832	Contel	0788
Akl	1005	Audiola	1660	Bush		Continental Edison	0831, 0872
Akura	0898, 1051, 1140, 1233, 1367	Audiosonic	1923			Crown	0713, 0770, 1115
		Audix	0713	Cambridge Audio	0751, 1109	Cybercom	0831
		Autovox	0713	Campomatic Digital	1051	CyberHome	0714, 0816, 1502
		Auvio	0843			Cytron	0651, 0774, 1347
Alba	0539, 0672, 0695, 0699, 0713, 0730, 0783, 1140, 1530, 1695	Axion	0730			D-Vision	1115, 1367
		Basic Line	0713, 1994	Cat	0699, 0786, 0789, 1421, 1923	Daenylx	0872
Alize	1151	Baze	0898	CCE	0730	Daewoo	0490, 0714, 0770, 0870, 0872, 1436, 1483
All-Tel	1451	BBK	1224	cello	1730	Dalton	0786, 1036
Altacom	1224	Beep	1163			Dansai	0770, 0783, 1115, 1695
Amitech	0770, 0850	Bellagio	1004	Centrum	0713, 0779, 0789, 1005, 1227, 1923, 1994	Dantax	0539, 0713, 0723, 0790
Amoi	0852	Belson	1923	CGV	0733, 0751, 1115	Daytek	0872, 1005
Amstrad	0713, 0770, 1151, 1367	Berthen	1643	Cinea	0841	Dayton	0872
AMW	0872	Binatone	1923	Cinetec	0713, 0872	DCE	0831
Ansonic	0774, 0831, 1316	Black Diamond	0713				
		Blu:sens	1233, 1321				

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	jWin	1051	Marquant	0770
Digitech	1832					Mastec	1221, 1434
DiK	0831	GoWell	1643	Kansas Technologies	1233, 1530	Matsui	0651, 0672, 0695, 0713, 1004, 1316, 1695, 1730
Dinamic	0788	GPX	0699, 0741	Karcher	0783	Maxim	0713, 0872, 1367
Disney	0831	Graetz	0665	Kendo	0672, 0699, 0713, 0831	MBO	0730, 1730
DK Digital	0831, 1557, 1660	Gran Prix	0831, 0898	Kennex	0713, 0770, 0898	MDS	0713
DMTech	0783, 1271	Grandin	0713, 1233	Kenwood	0490, 0534	Mecotek	0770
Dragon	0831	Grundig	0539, 0551, 0651, 0670, 0695, 0713, 0775, 0790, 1004, 1036, 1128, 1436, 1465, 1643, 1695, 1730, 1832	Kiilo	0770	Medion	0630, 0651, 0774, 0783, 0831, 0879, 1006, 1347, 1423
DreamX	1151			King Vision	1643		
DSE	1730	Grunkel	0770, 0790, 0831, 1316	Kingavon	0818	MEI	0790
Dual	0651, 0665, 0713, 0730, 0779, 0783, 0790, 0831, 1436, 1530	H & B	0713, 0818, 0841, 0850, 1233, 1421	Kiss	0665, 0841, 1523	Memorex	0831
		Hanseatic	0741, 0783, 0790	Kotron	0879	Metz	0525, 0571, 0713, 1994
Durabrand	0713, 0831, 1502	Harman/Kardon	0702	Kreisen	1421	MICO	0723, 0751, 1221, 1223
E: max	1233, 1321, 1643	Haus	0786	KXD	1321, 1923	Micromaxx	0695, 1695
eBench	1152	HCN	0788	Lawson	0768	Micromedia	0503, 0539
ECC	0730	HE	0730, 1163, 1923	Leiker	0872, 1513	Micromega	0539, 1005
Eclipse	0723, 0751	Henss	0713	Lenco	0651, 0699, 0713, 0770, 0774, 1513	Microsoft	0522, 1708
Elfunk	0713, 0850	HiMAX	0843	Lenoxx	2014	Microstar	0831
Elin	0770	Hitachi	0573, 0664, 0665, 0713, 1664, 1835, 1994	Lenoxx Sound	2014	Minato	0752
Ellion	0850, 1421	Hiteker	0672, 1923	Lexia	0699, 0768	Minax	0713
Elta	0672, 0770, 0788, 0850, 1051, 1115, 1151, 1233	Hoeher	0651, 0713, 0831, 1004, 1224	LG	0591, 0741, 0790, 0869, 1906	Minoka	0770, 1115
Eltax	1233, 1321	Home Electronics	0730, 0770	Lifetec	0651, 0831, 1347	Mirror	0752, 0879
Emerson	0591	Home Tech Industries	1224	Limit	0768	Mitsubishi	0713
Energy Sistem	1513	HotMedia	1152	Mizuda	0768	Mizuda	0770, 0818, 1451
Enterprise	0591	Humax	0646	LiteOn	1158, 1416	Monyka	0665
EuroLine	0675, 0788, 1115, 1233	Hyundai	0850, 1660	LM	1643	MPX	0843
Excello	1513	IIsonic	1508	Lodos	0713	Mustek	0730, 1730
Fenner	0651	Ingoel	0788	Loewe	0539, 0741	Muvud	1643
Ferguson	0651, 0695, 0713, 0898, 1695, 1730	Inno Hit	0713	Logik	0713	Mx Onda	0651, 0751, 1223
		Irradio	0869, 1115, 1224, 1233	Logix	0783	Mystral	0831
Finlux	0591, 0672, 0741, 0751, 0770, 0783			Loomax	1487	NAD	0741
Fintec	1530			Luker	1367	Naiko	0770, 1004, 1367
Firstline	0713, 0843, 0869, 1530			Lumatron	0695, 0713, 0741, 1115, 1321, 1832	Narita	1367
Fisher	0670			Lunatron	0741	Neom	1643
						Neovia	1271

DVD

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

Victor	1241	Weltstar	0713	Woxter	1005, 1151, 1224	Yamada	0872, 1004, 1151, 1158, 1416
Voxson	0730, 0831	Wesder	0699	X-Waves	1513		
Waitec	1151, 1224, 1233	Wharfedale	0713, 0751, 0752, 0790, 1832, 1835	Xbox	0522, 1708		
Waltham	1530			Xenius	0790		
Welkin	0831	Wilson	0831, 1233	Xoro	1183, 1221		
Wellington	0713	Windsor	0713	Yakumo	1004		
Welltech	1221	Windy Sam	0573			Zenith	0503, 0591

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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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	Digittech	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

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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 / Vahvistin / Forstærker / Förstärkare

Curtis Mathes	0300	Optimus	0300	RCA	0300	Yamaha	0848
Denon	0272	Pioneer	0300	Sony	0689		

Receiver / Empfänger / Récepteur / Ontvanger / Receptor / Ricevitore / Vastaanotin / Modtager / Mottagare

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		
Anam	0609	Bush	0797, 1772	DK Digital	1420	Grunkel	0744, 1390
ASCOMTEC	1389	Cat	1389	Dual	1220, 1390, 1420	Hanseatic	1390
Audiolab	1189	CCE	1352	eBench	0744, 0797	Harman/Kardon	1189, 1304, 1310
Audiosonic	1389	Centrum	1220, 1389	Elta	0744, 0797, 1390	Harwood	0744
Audiotronic	1189	Clatronic	0797	Ferguson	1154	HCM	1390

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	
Kompermass	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		Soundwave	0609	Watson	0797
Magnat	1389	Philips	1089, 1189, 1269, 1289, 1673		Stereophonics	1023	Welltech	0797
Magnavox	1089, 1189	Pioneer	0186, 1023, 1459, 1623		Sumida	0744	Wharfedale	1390, 1772
Magnum	1611	Prima Electronic	0797	Sunfire	1313	Xenius	1390	
Marantz	1089, 1189, 1269, 1289	Proline	0797, 1390	Sunstech	1420	Yamaha	0176, 0186, 0712, 1276, 1331, 1949	
Matsui	0744, 0797	ProVision	1389	TAG McLaren	1189	Yukai	1352	
MBO	1352	QONIX	1420	Tandberg	1554	Zenith	0744	
Medion	0797, 1420	Radionette	1293, 1634	Targa	1293			
MEI	1390	RCA	1154	TCM	0797			
Metz	1554							
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	Eita	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			Norcent	1389	Sharp	1614, 1634
Centrum	1389	Kenwood	1313	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		

