JVC

For users in the UK:
If you have any problems setting up your new TV, please call the JVE
Helpline on 0870 330 5000.

For users in the Republic of Ireland:
If you have any problems setting up your new TV, please call the JVE
Helbline on 1890-582500.

JVC

LT-26DX7BJ LT-26DX7SJ LT-32DX7BJ LT-32DX7SJ LT-40DS7BJ

WIDE LCD PANEL TV INSTRUCTIONS











Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996) Number: 3925, 3926, 3927, 3928, 3945

Information for Users on Disposal of Old Equipment

ENGLISH

[European Union]





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

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

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

Attention:

(Business users)

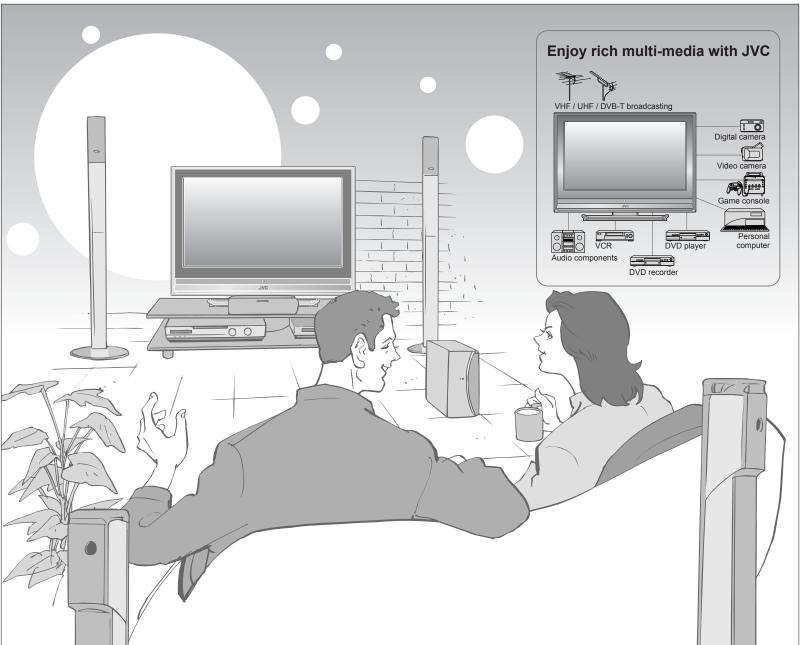
This symbol is only valid in the European Union.

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

[Other Countries outside the European Union]

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

Expanding the world of beautiful images



Contents

*In	this	manua	al,	

ATV : analogue terrestrial broadcasting (VHF / UHF) DTV : digital terrestrial broadcasting (DVB-T)

First things first!

Warning ----- 4

Getting started

Names of all the parts
Basic connections
Connecting external devices 10
Initial settings ······ 12
Editing DTV channels 14
Editing ATV channels 16

Let's try it out

● Enjoying your new TV! ······ 18
· TV / Teletext / EPG / Video / Menu
■ Watching TV·······20
● Using EPG22
● Viewing teletext ······ 24
● Watching videos / DVDs ······ 26
Try the advanced features

rry the advanced leatures

	-
● Useful functions 28	3
· Multi-picture / Favourite channel	
· Sleep timer / Child lock	
 Operate JVC recorders and other devices ··· 32 	2

Just the way you like it

 Customising your TV····································	34
Using DTV	36
Advanced picture adjustment	42

[·] Reduce noise / Watch a more natural picture · Set the aspect ratio, etc.

When you have trouble

● Troubleshooting ······	· 44
CH/CC List ······	· 47
● Technical information ······	· 48
Specifications	. 49

Follow this manual regarding setup!

Connect only to a 220-240V, 50/60Hz AC outlet.

Make enough room for inserting and removing the power plug!

Place the TV as close to the outlet as possible!

• 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 AC plug is not the right shape, or the power cord is not long enough, use an appropriate plug (Consult your retailer.)



- → "Technical information" (P. 48)
- ⇒ "Technical information" (P. 48)

Do not allow the TV to fall!

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

Never try to repair

→ If the problem cannot be solved in

"Troubleshooting" (P. 44), unplug the power cord and contact your

the TV yourself!

On disposal of the TV!

If the TV is damaged

stop using it at once!

or behaving strangely,

⇒ Unplug the power cord and contact _

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



cause a fire. Never expose to rain or moisture!

Never place anything on

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

Placing liquids, naked

etc. on the TV may

flames, cloths, paper,

the TV!

Never insert objects into the cabinet openings!

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



Never listen to headphones at high volume!

It may damage your hearing.

adapter or extension cable.

- If you have cut or damaged the power cord.
- To change the fuse in UK plugs

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.)



When attaching the TV to the wall, use the optional

- JVC assumes no responsibility for damage due to improper mounting.

JVC wall mounting unit!

Consult a qualified technician.

00

See the included manual on mounting

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

Never dismantle the rear panel!

It may cause an electric shock.

Never obstruct the ventilation holes!

It may cause overheating or a fire.

Handle LCD panel with care!

Use a soft, dry cloth when cleaning.

Hold the TV so as not to scratch the screen!

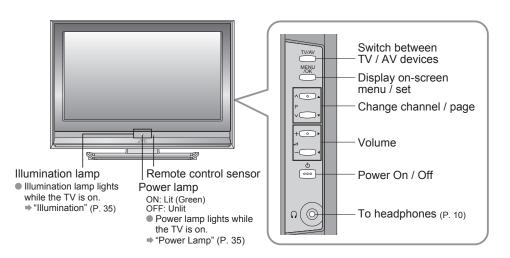
Do not touch the screen when carrying the TV.

Do not carry the TV on your own!

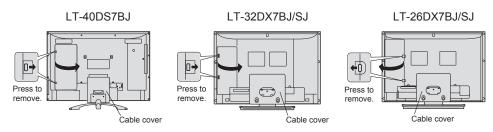
• In order to prevent accidents, ensure that the TV is carried by two or more people.



Names of all the parts



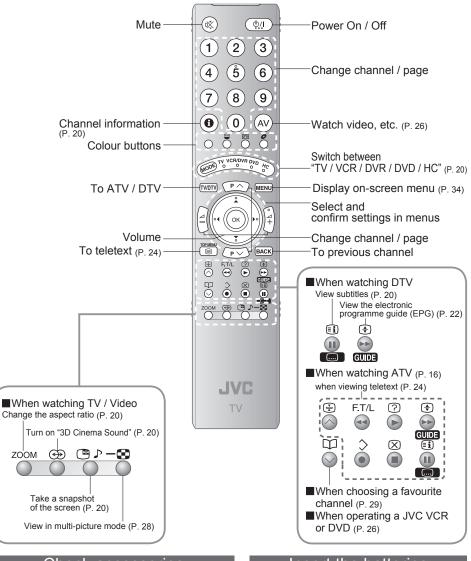




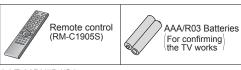
- If the cover cannot be closed due to the cables being in the way
- Do not force the cover to close (leave it open).
- Connecting terminals on the back of the TV → Connecting External devices (P. 10)
- To remove the cable cover, refer to the included sheet.

Direction of TV Tidying the cables LT-40DS7BJ LT-32DX7BJ/SJ, LT-26DX7BJ/SJ

- To remove the cable cover, refer to the included sheet.
- The LT-40DS7BJ model differs from illustrations on this page.



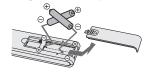
Check accessories



LT-26DX7BJ/SJ
 To attach the stand, refer to the included sheet.

Insert the batteries

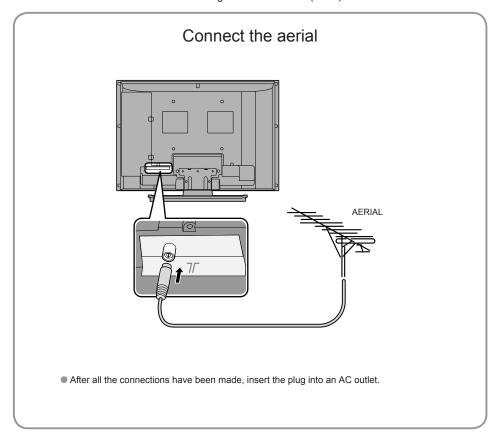
Use two "AAA/R03" dry cell batteries. Insert the batteries from the \ominus end, making sure the \oplus and \ominus polarities are correct.



Basic connections

Please read the user manuals of each device carefully before setup. It is necessary to connect an aerial to watch TV.

■ Connect with other devices ⇒ "Connecting external devices" (P. 10)

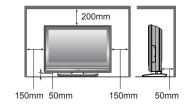


Care when setting

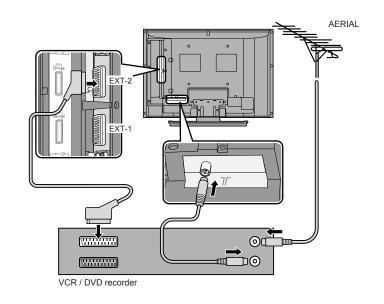
- Power requirements
- Connect the power cord only to a 220-240V, 50/60Hz AC outlet.
- ■When attaching the TV to the wall, use the optional JVC wall mounting unit
- Consult a qualified technician.
- See the included manual on mounting procedures.

 N/C assumes no responsibility for demand due to
- JVC assumes no responsibility for damage due to improper mounting.
- 200mm × 200mm mount which conforms to VESA standards.

- ■Installation requirements
- To avoid overheating, ensure the unit has ample room.



Connect a VCR / DVD recorder



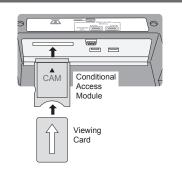
- After all the connections have been made, insert the plug into an AC outlet.
- Connect "T-V LINK" compatible recording device to "EXT-2".
- "T-V LINK"

 "What is "T-V LINK"?" (P. 12)

Watch pay-per-view

Contract with a broadcasting company beforehand.

- ① Unplug the power cord
- ②Insert the Viewing Card into the CAM.
- ③ Insert the CAM.
- ④ Plug the power cord, and turn the power on.■ Set pay-per-view ⇒ (P. 40)
- The CAM and Viewing Card will be sent by the broadcasting company after contracting with them.

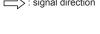


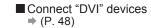
Connecting external devices

VCR / DVD / other devices

You can connect many different devices to the rear panel of the TV. Please read the user manuals of each device before setting up. (Connecting cables are not supplied with this TV.)







■ "T-V LINK" ⇒ (P. 12)

FXT-1 Watching videos

Output 1	Input Ψ
· Composite sign · Sound L / R	al · Composite signal / RGB / S-VIDEO · Sound L / R

Use S-VIDEO ⇒ "S-IN" (P. 27)

EXT-2 Dubbing videos Using "T-V LINK"

Output 1	Input Ψ
· Composite signal · S-VIDEO (only for DTV) · Sound L / R	· Composite signal / RGB / S-VIDEO · Sound L / R
· T-V LINK	

- Use S-VIDEO → "S-IN" (P. 27)
- Use DTV S-OUT ⇒ "S-OUT" (P. 27) Select dubbing sources
- → "DUBBING" (P. 27)
- Connect a decoder
- → "Decoder (EXT-2)" (P. 35)

EXT-3 Watching videos

Output 1	Input Ψ
	· Composite signal / S-VIDEO · Sound L / R

FXT-4 Watching DVDs

Output	Input 👚
	· Component signal (P. 49) · Sound L / R

■ "Component Auto Select"

(P. 35)

EXT-6 HDMI devices

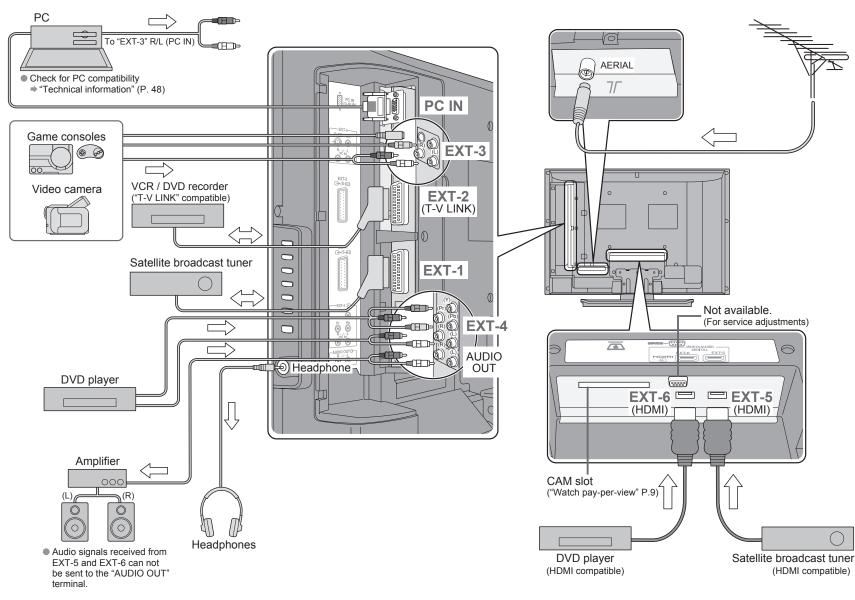
Output 👚	Input ₩
	· HDMI signal (P. 49)

● "HDMI Setting" ⇒ (P. 35) EXT-6 input does not support analogue sound.

AUDIO OUT

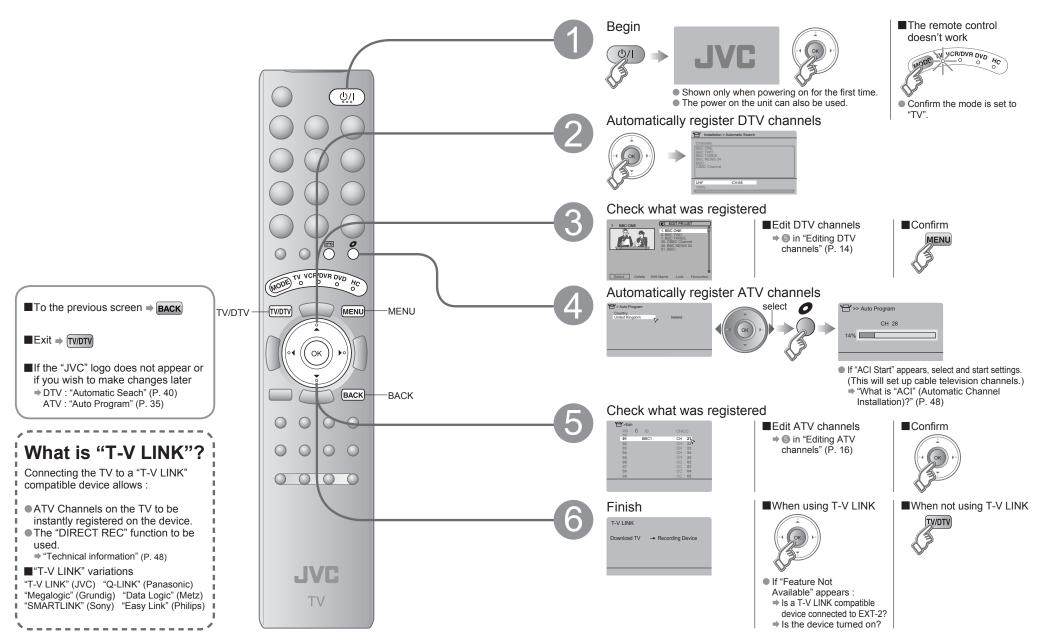
Listening to the TV on external speakers

Output Ψ	
Sound L / R	

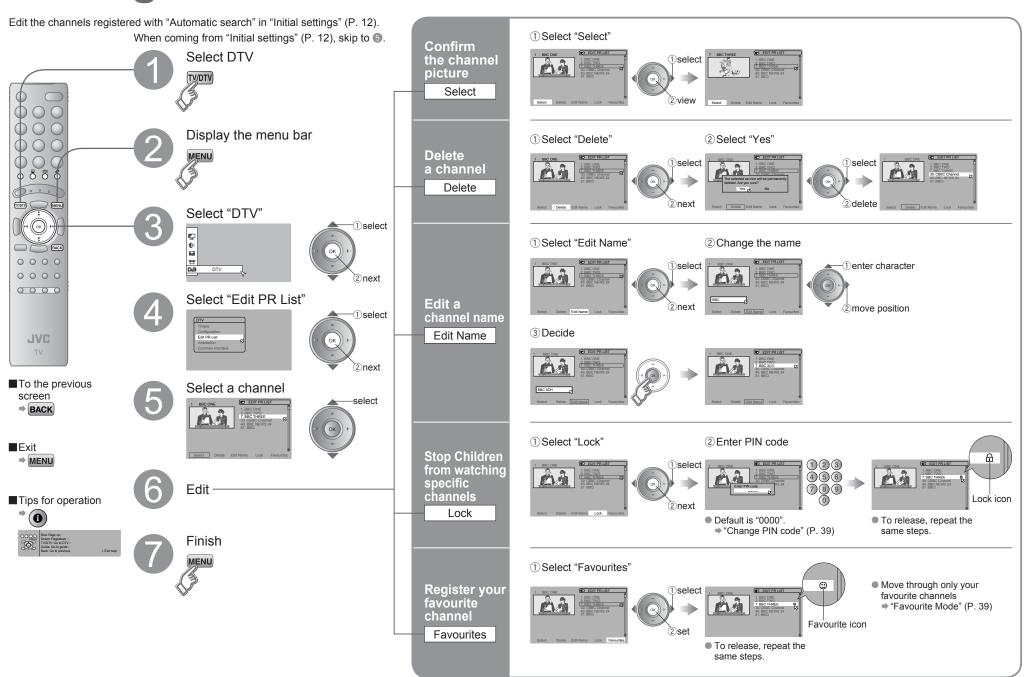


Initial settings

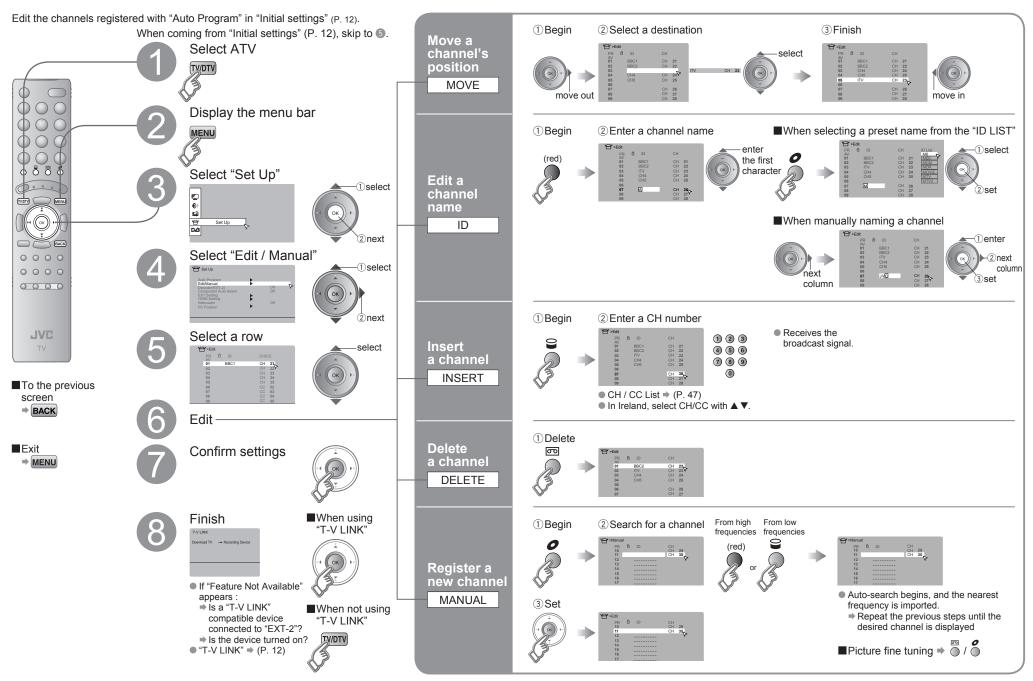
Register DTV / ATV channels on TV. These channels can be edited later. (In this manual, digital broadcasting is indicated as DTV, and analogue broadcasting as ATV.)



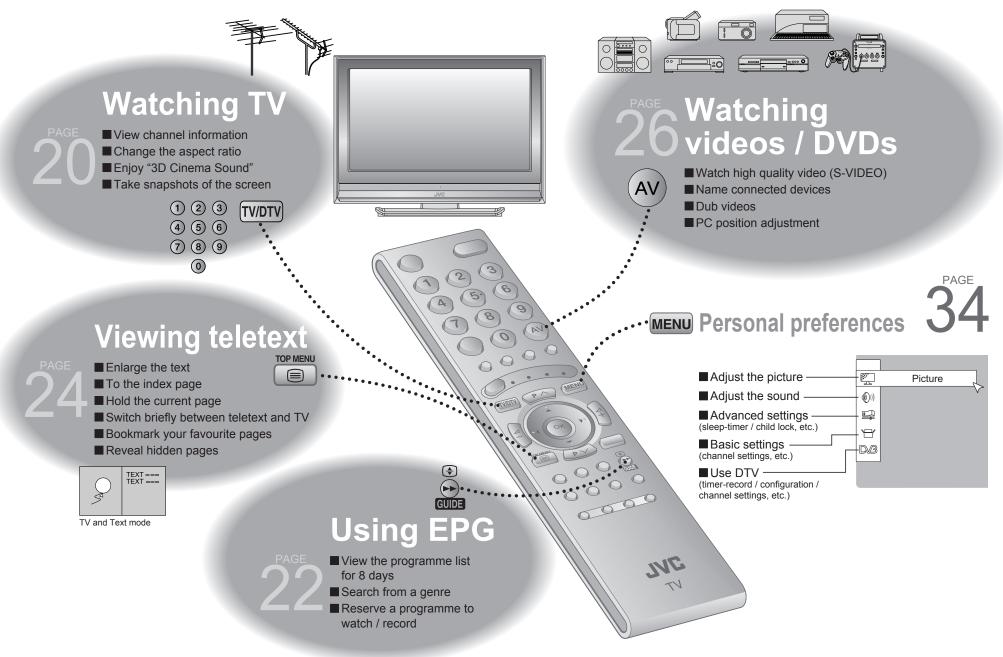
Editing DTV channels



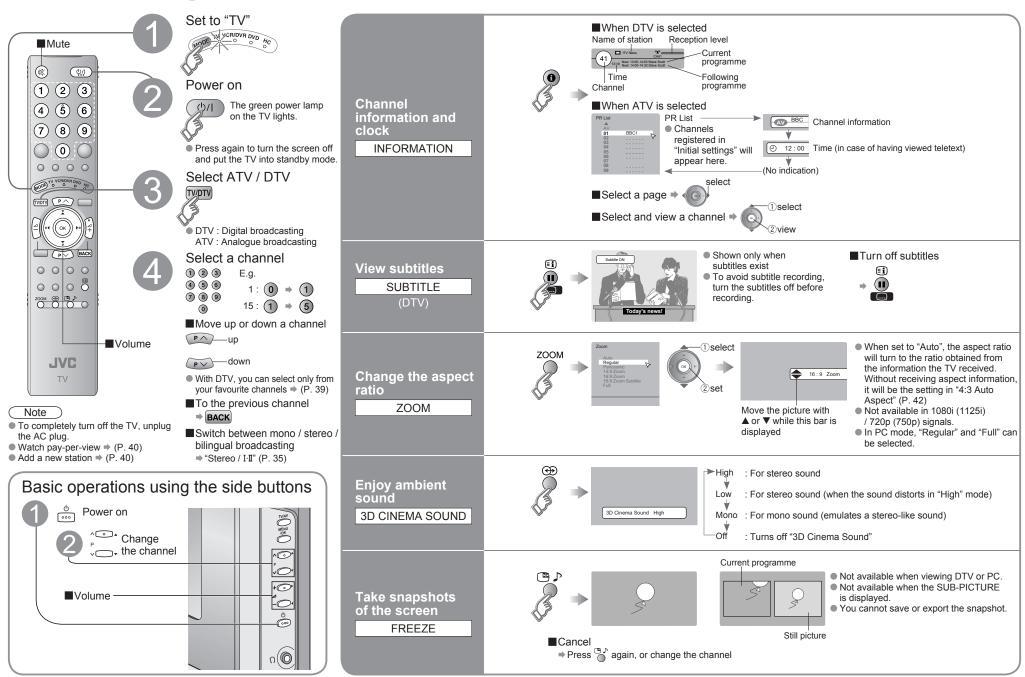
Editing ATV channels



Enjoying your new TV!

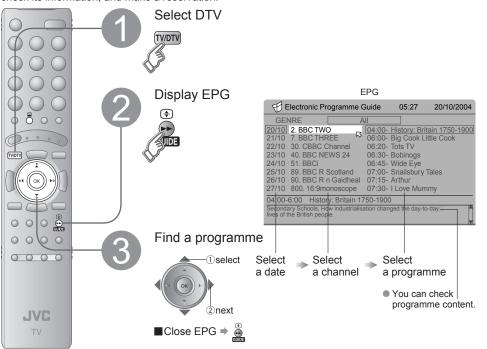


Watching TV

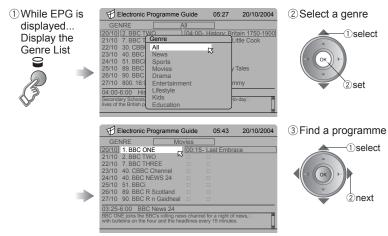


Using EPG (Electronic Programme Guide)

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



■Search from a genre



Only programmes in the selected genre are displayed.

Reservations

Reserve a programme to watch

Programmeview setting



■ Cancel the reservation → Select the reserved programme and press "OK"



■Exit ⇒ Press "MENU"

- · Set the recording device to external input mode before the start time.
- · For T-V LINK incompatible devices, manually set the timer on the device.
- For details, refer to the manual of the recorder.
- · Make sure that recording times on the recording device do not overlap with recording times on the TV.
- · When Rec Timer has been set, the power lamp on the TV will : Start blinking 3 minutes before the start time (green or red)
- Light during recording (green or orange)
- · Some T-V LINK compatible DVD recorders may not work correctly.

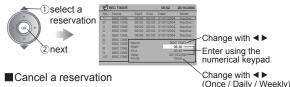
Reserve a programme to record

Programmerecord settina

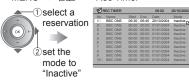


At the start time. the channel will automatically change and the device connected to EXT-2 will begin recording the programme.

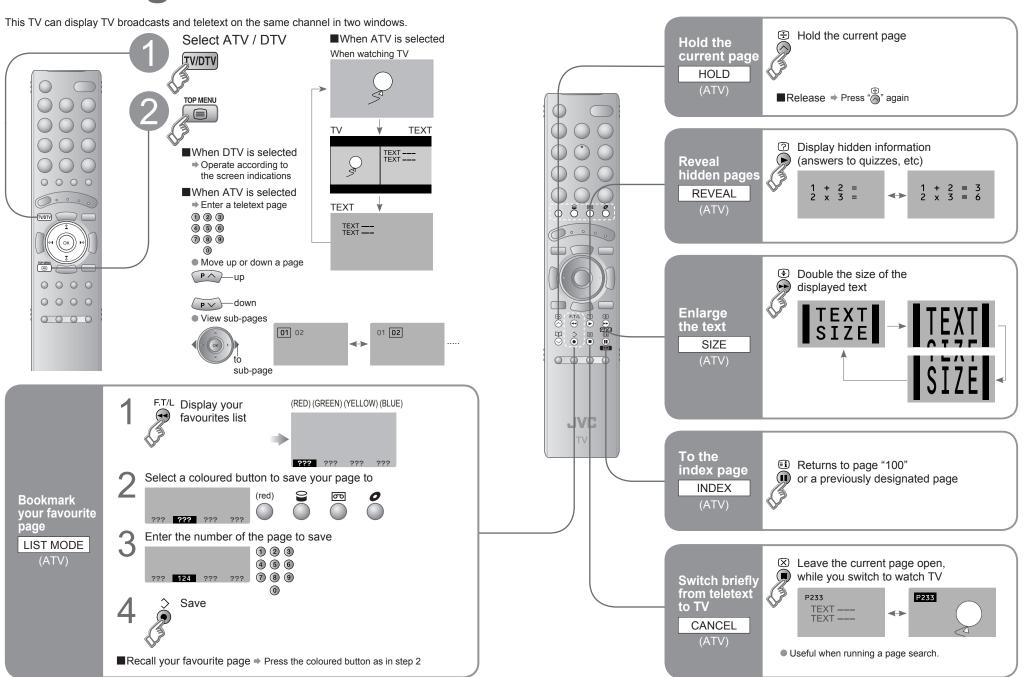
■Change a reservation → "MENU" → "D\B" → "Rec Timer"



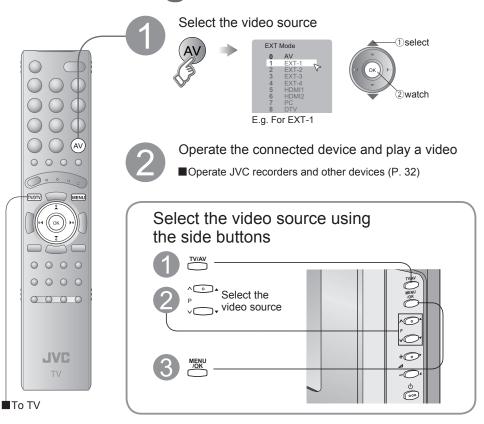
→ "MENU" → "D\B" → "Rec Timer"



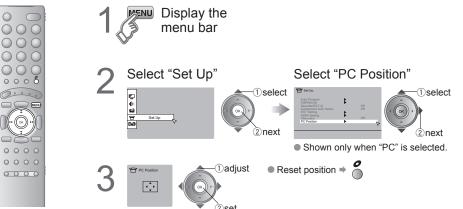
Viewing teletext



Watching videos / DVDs











Display the menu bar







S-IN S-OUT (DTV) ① Select the EXT connected to S-VIDEO ② Set S-VIDEO input



- display will change from E1 to S1.
 S-OUT is not available when FXT-2
- Cancel this mode → Press " in ② again
 Set the S-OUT → Cancel S-IN at "EXT-2", then select "DTV" and press yellow button. (available only for DTV)

not available when EXT-2 d receives an RGB input.

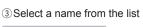
Edit names of connected devices

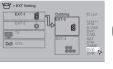
ID LIST



①Select an EXT to assign a name to

② Show the name list







■Clear the name ⇒ Select the blank space in ③

Set up dubbing on EXT-2 DUBBING



(1) Select the arrow



Select Select

② Select the dubbing source

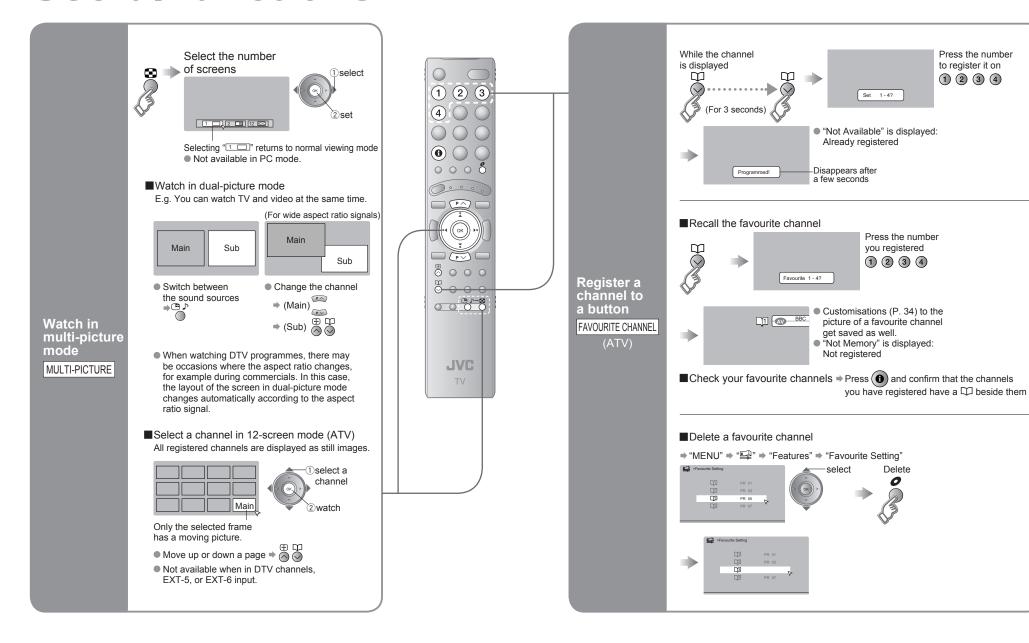
■ Record DTV with S-VIDEO ⇒ Set S-OUT at "DTV".

Press the number

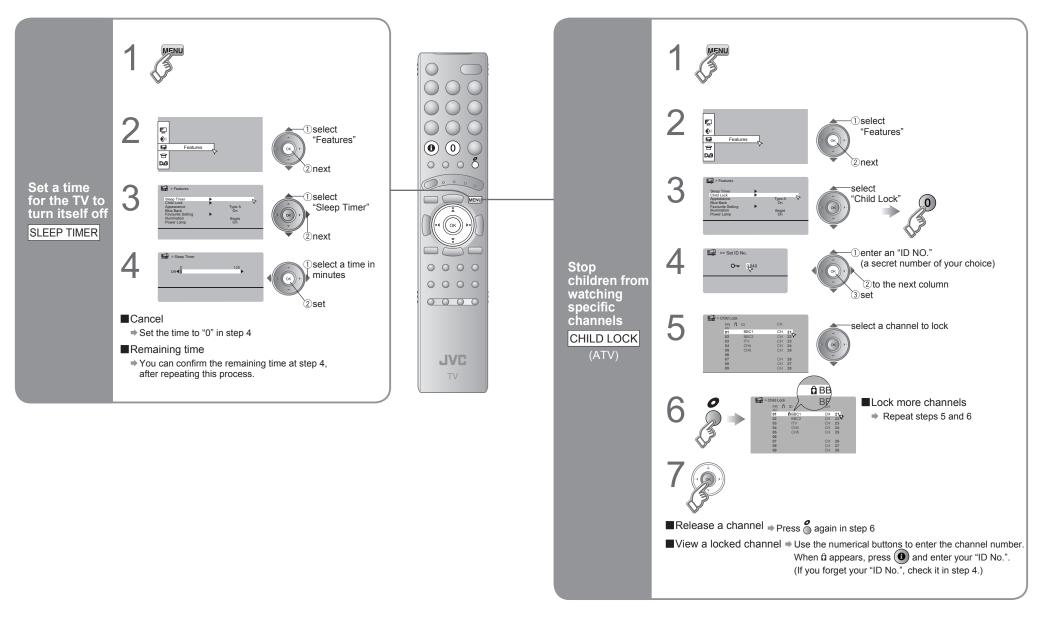
to register it on

1 2 3 4

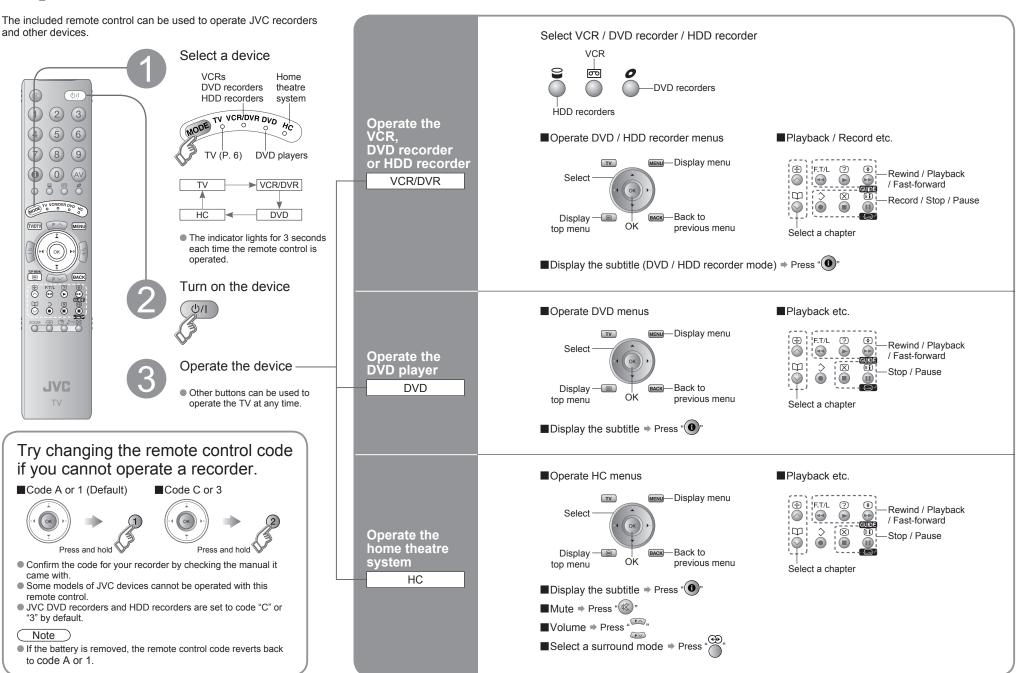
Useful functions



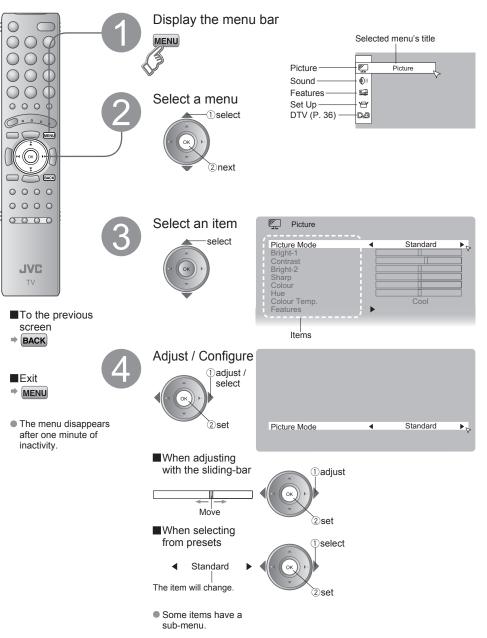
Useful functions (continued)



Operate JVC recorders and other devices



Customising your TV



Menu	Item	Adjustments / Configurations		
	Picture Mode	Picture mode (Bright / Standard / Soft)		
	Bright-1	Backlight brightness (Darker ⇔ Brighter)		
	Contrast	Contrast (Lower ⇔ Higher)		
	Bright-2	Brightness (Darker ⇔ Brighter)		
<u> </u>	Sharp	Sharpness (Softer ⇔ Sharper)		
- Picture	Colour	Colour (Lighter ⇔ Deeper)		
O O	Hue	Tint (Reddish ⇔ Greenish)		
	Colour Temp.	Colour temperature (Warm / Normal / Cool)		
	Features	Finer picture adjustments (P. 42)		
	Stereo / I · II	Mode / Language (○: MONO / ○: STEREO / I: SUB1 / II: SUB2)		
6	Bass	Low tones (Weaker ⇔ Stronger)		
(((()))	Treble	High tones (Weaker ⇔ Stronger)		
Sound	Balance	Speaker balance (Left Stronger ⇔ Right Stronger)		
un	3D Cinema Sound	Ambience level (High / Low / Mono / Off)		
٥	MaxxBass *1	Emphasize the bass sound (Off / Low / High)		
	Voice Enhancer	Sound enhancement technology (On / Off)		
	Sleep Timer	Timer for turning off the TV (P. 30)		
	Child Lock	Stops children from watching specific channels (P. 31)		
∏ Features	Appearance	Format for displaying the channel number (Type A / Type B)		
eatı	Blue Back	Displays a blue screen and mute the sound when the signal is weak or absent (On / Off)		
lTe	Favourite Setting	Clear favourite channel settings (P. 29)		
S	Illumination	Lights illumination lamp (P. 6) while the TV is on (Bright / Soft / Off)		
	Power Lamp	Lights power lamp (P. 6) while the TV is on (On / Off)		
	Auto Program	Select a country, it automatically registers channels (P. 13, ⓐ)		
	Edit / Manual	Change registered channels or add new ones (P. 16)		
	Decoder(EXT-2)	For when connected to VCR with "T-V LINK" (On / Off)		
S	Component Auto Select	Changes the TV input to "EXT-4" when a component signal is input to "EXT-4" (On / Off) (Not available when viewing PC)		
et e	EXT Setting	For use with video players and other devices (P. 27)		
Set Up	HDMI Setting	HDMI-1 (EXT-5): Size (1 / 2 / Auto), Audio (Digital / Analogue / Auto) HDMI-2 (EXT-6): Size (1 / 2 / Auto)		
	Attenuator	For when the picture is not displayed because of too strong radio waves (On / Off)		
	PC Position	PC position adjustment (P. 26)		

Other settings · Change the aspect ratio ⇒ "ZOOM" (P. 20)

Turn on "3D Cinema Sound"

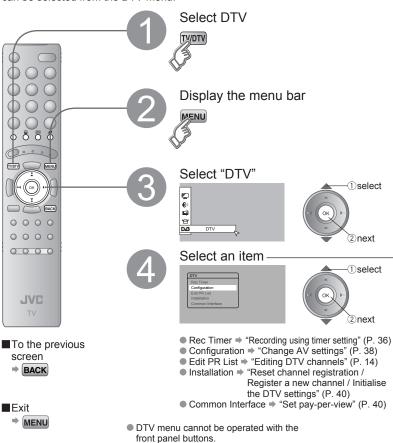
 "3D CINEMA SOUND" (P. 20)

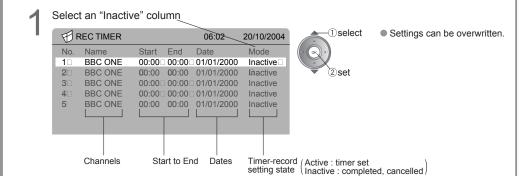
^{*1} MaxxBass is a registered trademark of Waves Audio Ltd. in the USA, Japan and other countries.

Using DTV

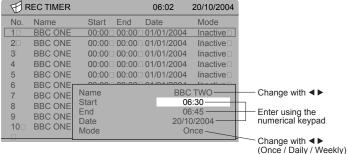
Timer-record setting

DTV original function and setting, such as a recorder-linked timer-record setting, can be selected from the DTV menu.





Input timer-record setting details







- A message will be displayed if you set past dates.
- The channel will be selected automatically at the set start time, and the recorder connected to EXT-2 will start recording.
- For more details about the timer-record setting, refer to the notice of
 "Prepare for recording" (P. 23)
- ■Cancel a timer-record setting
- ⇒ Select the column at step 1 and press ▶. (Mode will be changed to "Inactive")
- ■Change a timer-record setting
- ⇒ Select the column at step 1 and repeat steps 2 and 3.

Recording using timer setting

Rec Timer

36

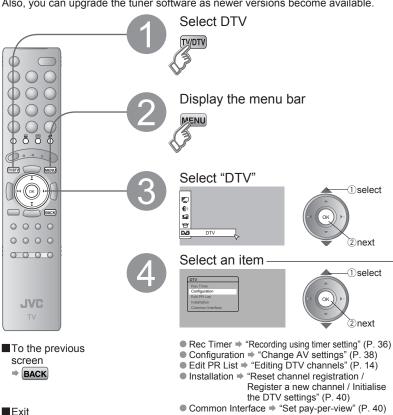
 The menu disappears after one minute of

inactivity.

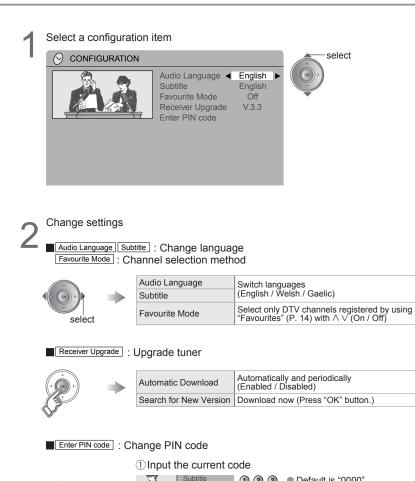
Using DTV

AV setting

Available for changing subtitle languages for DTV, favourite channel selection, changing PIN code, and upgrading the tuner software. Also, you can upgrade the tuner software as newer versions become available.



AV settings Configuration





Default is "0000". If you forget the code → Default the code in "Reset channel registration"

(P. 40)

2 Input a new code twice.



DTV menu cannot be operated with the

front panel buttons.

The menu disappears after one minute of inactivity.

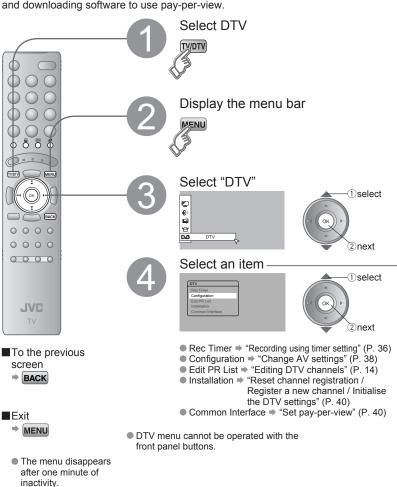
⇒ MENU

Change

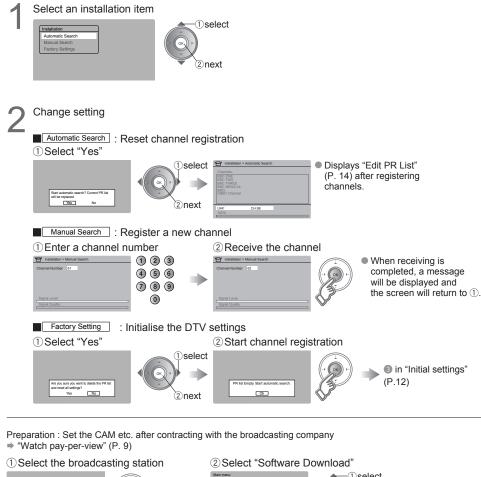
Using DTV

Registration and setting

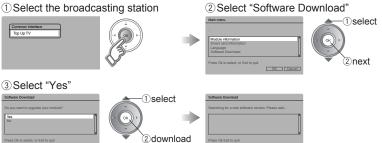
Available for registration of DTV channels, initialisation of all DTV settings, and downloading software to use pay-per-view.



Reset channel registration Register a new channe Initialise the **DTV** settings Installation



Set pay-perview Common Interface

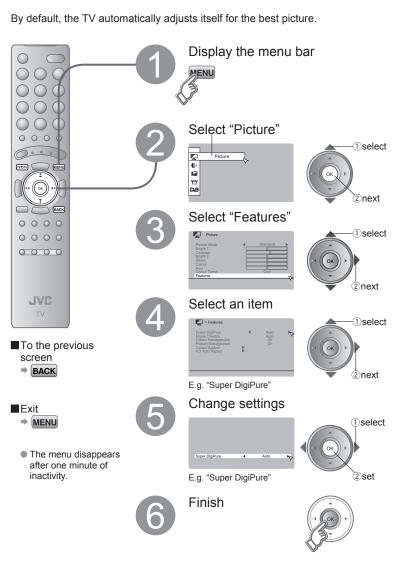


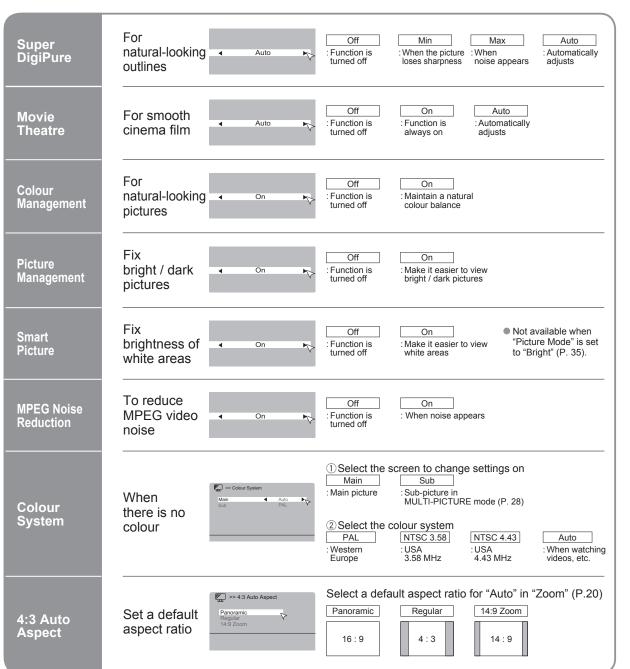
OK Cance

• Use this menu for settings and contract content for pay-per-view. For details, consult your broadcasting company

40

Advanced picture adjustment





Troubleshooting

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

Patterns, stripes or noise

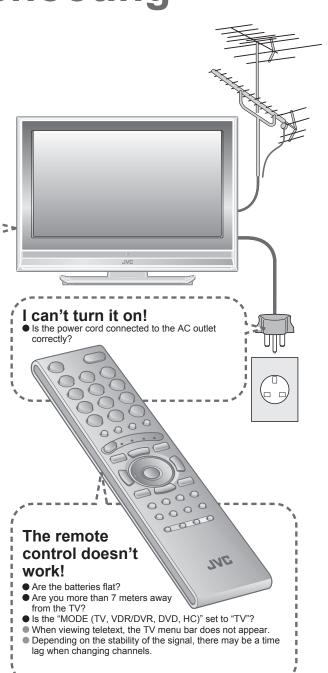


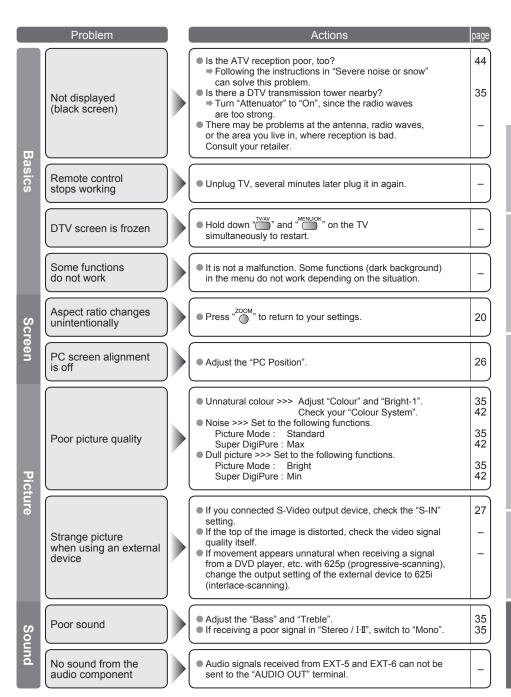
- Is the aerial receiving interference from high-voltage power lines or wireless transmitters?
 Consult your retailer
- Are connected devices too close to the TV?
- ⇒ Insert the minimum distance between the aerial and the cause of interference until no interference

Ghosting (Doubling of images)

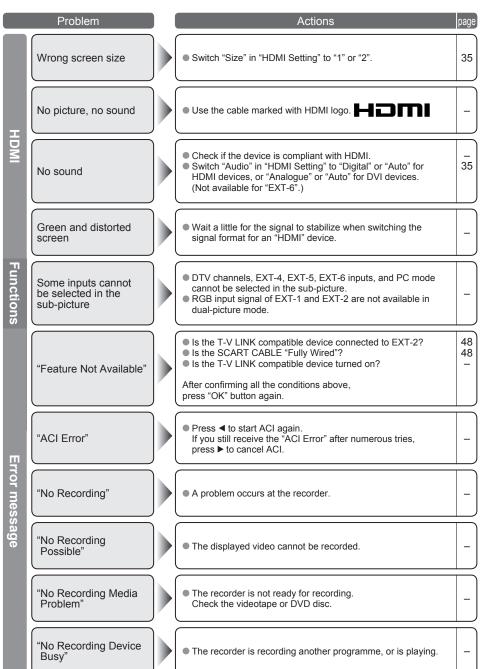


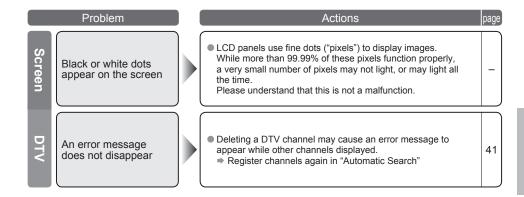
- Are you receiving interference from signals reflected off mountains or buildings?
- Adjust the direction of your aerial, or change to a good-quality directional aerial





Troubleshooting (continue





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. If you want to know a particular TV channel's channel menu, look in TV listings magazines or contact the broadcaster.
- When the Country setting is United Kingdom, the CC number channels and channels from CH02 to CH12 cannot be received.

СН	Channel	СН	Channel	CC	Channel
CH 02	E2, IR A	CH 40	E40	CC 01	S1
CH 03	E3, IR B	CH 41	E41	CC 02	S2
CH 04	E4, IR C	CH 42	E42	CC 03	S3
CH 05	E5, IR D	CH 43	E43	CC 04	S4
CH 06	E6, IR E	CH 44	E44	CC 05	S5
CH 07	E7, IR F	CH 45	E45	CC 06	S6
CH 08	E8, IR G	CH 46	E46	CC 07	S7
CH 09	E9	CH 47	E47	CC 08	S8
CH 10	E10, IR H	CH 48	E48	CC 09	S9
CH 11	E11, IR J	CH 49	E49	CC 10	S10
CH 12	E12	CH 50	E50	CC 11	S11
CH 21	E21	CH 51	E51	CC 12	S12
CH 22	E22	CH 52	E52	CC 13	S13
CH 23	E23	CH 53	E53	CC 14	S14
CH 24	E24	CH 54	E54	CC 15	S15
CH 25	E25	CH 55	E55	CC 16	S16
CH 26	E26	CH 56	E56	CC 17	S17
CH 27	E27	CH 57	E57	CC 18	S18
CH 28	E28	CH 58	E58	CC 19	S19
CH 29	E29	CH 59	E59	CC 20	S20
CH 30	E30	CH 60	E60	CC 21	S21
CH 31	E31	CH 61	E61	CC 22	S22
CH 32	E32	CH 62	E62	CC 23	S23
CH 33	E33	CH 63	E63	CC 24	S24
CH 34	E34	CH 64	E64	CC 25	S25
CH 35	E35	CH 65	E65	CC 26	S26
CH 36	E36	CH 66	E66	CC 27	S27
CH 37	E37	CH 67	E67	CC 28	S28
CH 38	E38	CH 68	E68	CC 29	S29
CH 39	E39	CH 69	E69	CC 30	S30

CC	Channel
CC 31	S31
CC 32	S32
CC 33	S33
CC 34	S34
CC 35	S35
CC 36	S36
CC 37	S37
CC 38	S38
CC 39	S39
CC 40	S40
CC 41	S41
CC 75	X
CC 76	Υ
CC 77	Z
CC 78	Z+1
CC 79	Z+2

Technical information

What is "T-V LINK"?

"T-V LINK" allows the TV to share information easily with a connected "T-V LINK" compatible device. By using T-V LINK:

- You can send the ATV channel information programmed on the TV to the "T-V LINK" compatible device, so that both the TV and the external device have the same channel settings. When connecting a new external device, channel information is loaded into it, allowing channel setup to be completed very quickly. For more details, refer to the external device's manual.
- You can easily record the TV programme you are viewing on a "T-V LINK" compatible device by using the "DIRECT REC" feature. For more details, refer to the external device's manual.
- After timer-record setting, the TV will instruct the recorder to start and stop recording, via DIRECT REC.

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.

PC Signals that can be displayed

Macintosh computers are not supported. (Macintosh is a registered trademark of Apple Computer, Inc.)

If the signal doesn't appear, check that the vertical frequency on the PC is set to "60Hz".

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

Connect "DVI" devices

Connect a "DVI" device to "EXT-5 (HDMI)" using "DVI-HDMI" conversion cable. Connect analogue sound output of the DVI device to L and R terminals in EXT-4.

- Set "Audio" in "HDMI Setting" to "Analogue" or "Auto" ⇒ (P. 35)
- EXT-6 input does not support DVI devices.
- EXT-6 input does not support analogue sound (EXT-4).

If you accidentally cut the power cord

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

[Important]

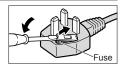
- Never connect to the larger terminal marked with an "E", the safety earth symbol "\(\pexstar*\)" or coloured green or green-and-yellow.
- The wires in the mains lead on this product are coloured with the following code:
- · Blue: Neutral wire (connect to the black terminal, or one marked "N")
- · Brown: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

Change the fuse in the plug

Open the plug as illustrated on the right.

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

If in doubt, contact your local retailer.



Specifications

Main unit				
Model	LT-40DS7BJ	LT-32DX7BJ/SJ	LT-26DX7BJ/SJ	
Broadcasting systems	CCIR, I			
Colour systems	PAL · The EXT terminals also support the NTSC 3.58/4.43 MHz system.			
Channels and frequencies	 Analogue: E21-E69 (UNITED KINGDOM) IR A-J, E2-E12, E21-E69 (IRELAND) Digital: 474 MHz-850MHz (channel 21-68) 			
Sound-multiplex systems	NICAM (I) system.			
Teletext systems	Analogue : FLOF (Fastext), WST (World Standard System). Digital : MHEG 5 UK profile			
Power requirements	AC 220 V - 240 V, 50/60Hz			
Audio output (Rated power output)	10 W + 10 W			
Speakers	6.6 cm round x 4 5.0 cm round x 2			
Power consumption [standby]	227 W [0.5 W]	134 W [0.6 W]	120 W [0.6 W]	
Screen size (visible area size measured diagonally)	101 cm	80 cm	66 cm	
Dimensions (W x H x D: mm) [without stand]	1000 x 720.5 x 293 [1000 x 670.5 x 117.3]	800 x 591.9 x 244.4 [800 x 545 x 133.5]	672 x 517.9 x 244.4 [672 x 471 x 133.5]	
Weights [without stand]	29.3 kg [24.5 kg]	17.9 kg [16.3 kg]	14.7 kg [13.1 kg]	
Accessories	(See "Check accessories", P. 7)			

This TV has the CAM (Conditional Access Module) slot for watching pay-per-view.
 Please note that the CAM and viewing card must be purchased separately.

Terminals / Connectors

Terminal name		Terminal type	Signal type (IN)	Signal type (OUT)
	EXT-1	Euroconnector x 1 (SCART connector)	Composite video, S-video, Analogue RGB, AUDIO L / R	TV out
Input / Output terminals	EXT-2	Euroconnector x 1 (SCART connector)	Composite video, S-video, Analogue RGB, AUDIO L / R	Dubbing out (S-VIDEO out is available only for DTV channels)
	EXT-3	RCA connectors x 3, S-VIDEO connector x 1	Composite video, S-video AUDIO L / R	
Input terminals	EXT-4	RCA connectors x 5	Analogue component (576i (625i) / 480i (525i), Progressive : 576p (625p) / 480p (525p), HD : 1080i (1125i), 720p (750p)) AUDIO L / R	
	EXT-5 (HDMI-1)	HDMI connector x 1	HDMI (576i (625i) / 480i (525i) /	
	EXT-6 (HDMI-2)		576p (625p) / 480p (525p), 1080i (1125i), 720p (750p))	
	PC INPUT	D-SUB (15 pins) x 1	Analogue PC signal (P. 48)	
0.1.1	AUDIO OUT	RCA connectors x 2		Audio L / R
Output terminals	Headphone	Stereo mini-jack x 1 (3.5 mm in diameter)		Headphone output

• We may change the design and specifications without notice.

48