SONY

2-349-779-41 (1)



WEGA LCD Colour TV

Operating Instructions _

GB

Before operating the TV, please read the "Safety Information" section of this manual. Retain this manual for future reference.

KLV-27HR3

NOTICE FOR CUSTOMERS IN THE UNITED KINGDOM

A moulded plug complying with BS1363 is fitted to this equipment for your safety and convenience. Should the fuse in the plug supplied need to be replaced, a 5 AMP fuse approved by ASTA or BSI to BS 1362 (i.e. marked with * or *) must be used..

When an alternative type of plug is used it should be fitted with a 5 AMP FUSE, otherwise the circuit should be protected by a 5 AMP FUSE at the distribution board.

If the plug supplied with this equipment has a detachable fuse cover, be sure to attach the fuse cover after you change the fuse. Never use the plug without the fuse cover. If you should lose the fuse cover, please contact your nearest Sony service station.



How to replace the fuse

Open the fuse compartment with a blade screwdriver, and replace the fuse.

IMPORTANT

If the plug supplied is not suitable for the socket outlets in your home, it should be cut off and an appropriate plug fitted in accordance with the following instructions:

The wires in this mains lead are coloured in accordance with the following code:

Blue Neutral Brown Live

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Do not connect either wire to the earth terminal in the plug which is marked by the letter E or by the safety earth symbol $\frac{1}{2}$ or coloured green or green and yellow.

WARNING

- To prevent the risk of electric shock, do not insert the plug cut off from the mains lead into a socket outlet. This plug cannot be used and should be destroyed.
- To prevent the risk of fire or electric shock, do not expose the unit to rain or moisture.
- Dangerously high voltages are present inside the set. Do not open the cabinet. Refer servicing to qualified personnel only.

Introduction

- Thank you for choosing this Sony product.
- Before operating the TV, please read this manual thoroughly and retain it for future reference.
- Symbols used in the manual:
 - Important information.
 - Information on a feature.
 - 1,2... Sequence of instructions.
- Buttons shaded white on the remote control show you the buttons you have to press to follow the sequence of the instructions.
- Informs you of the result of the instructions.

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Safety Information

Mains lead

Unplug the mains lead when moving the TV. Do not move the set with the mains lead plugged in. It may damage the mains lead and result in fire or



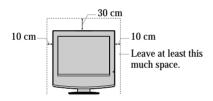
electric shock. If the set has been dropped or damaged, have it checked immediately by qualified service personal.

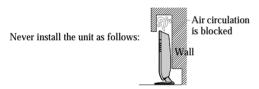
Damage requiring service

If the surface of the display cracks, do not touch it until you have unplugged the mains lead. Otherwise electric shock may result.

Ventilation

Leave space around the TV set. Otherwise, adequate aircirculation may be blocked causing overheating which may cause fire or damage the TV set.





LCD screen

- Although the LCD screen is made with high-precision technology and 99.99% or more of the pixels are effective, black dots may appear or bright points of light (red, blue or green) may appear constantly on the LCD screen. This is a structural property of the LCD panel and is not a malfunction.
- Do not expose the LCD screen surface to the sun.
 Doing so may damage the screen surface.
- Do not push or scratch the front filter, or place objects on top of the TV set .The image may be uneven or the LCD panel may be damaged.
- If the TV set is used in a cold place, a smear may occur in the picture or the picture may become dark. This does not indicate a failure. These phenomena disappear as the temperature rises.
- Ghosting may occur when still pictures are displayed continuously. It may disappear after a few moments.
- The screen and cabinet get warm when the TV set is in use. This is not a malfunction

Medical institution

Do not place this TV set in a place where medical equipment is in use. It may cause malfunction of medical instruments.



Carrying

Before carrying the TV set, disconnect all the cables from the TV set.

Fluorescent lamp

This TV set uses a special fluorescent lamp as its light source. If the screen image becomes dark, flickers or does not appear, the fluorescent lamp has run down and should be replaced. For replacement, consult qualified service personnel.

Adjusting the viewing angle of the TV set

When adjusting the angle, hold the stand with your hand so that it does not come loose or fall off. Be careful not to catch your fingers between the TV set and the stand.

Power Sources

Overloading

This TV set is designed to operate on a 220-240V AC supply only. Take care not to connect too many appliances to the same mains socket as this could result in fire or electric shock.



Mains

Do not use a poor fitting mains socket. Insert the plug fully into the mains. If it is loose, it may cause arcing and result in fire. Contact your electrician to have the mains socket changed.



Moisture

Do not touch the mains lead with a wet hand. If you plug/unplug the mains lead with a wet hand, it may cause electric shock.



Lightning storms

For your own safety, do not touch any part of the TV set, mains lead or aerial lead during lightning storms.



Mains lead

If you damage the mains lead, it may result in fire or electric shock.

 Do not pinch, bend, or twist the cable excessively. The core lines may be bared or cut, causing a short - circuit which may in fire or electric shock.



- Do not convert or damage the mains lead.
- Do not put anything heavy on the mains lead. Do not pull the mains lead.
- Keep the mains lead away from heat sources.
- Be sure to grasp the plug when disconnecting the mains lead.
- If the mains lead is damaged, stop using it and ask your dealer or Sony service centre to exchange it.

Electric shock

Do not touch the TV set with wet hands. Doing so may cause electric shock or damage the TV set.

Corrosion

If you use this set near the seashore, salt may corrode metal parts of the TV set and cause internal damage or fire. It may also shorten the life of the TV set. Steps should be taken to reduce the humidity and temperature of the area where the set is located.

Mains lead protection

Pull out the mains lead by the plug. Do not pull on the mains lead itself.



Wiring

Unplug the mains lead when wiring cables. Be sure to unplug the mains lead for your safety, when hooking up.

Cleaning

Clean the mains plug regularly. If the plug is covered with dust and it picks up moisture, its insulation may deteriorate and result in fire. Unplug the mains plug and clean it regularly.



When not in use

For environmental and safety reasons, it is recommended that the TV set is switched off when not in use - not left in standby mode. Disconnect from the mains.



Cable wiring

Take care not to catch your feet on the cables. It may damage the TV set.

Installation

Do not install optional components too close to the TV set. Keep optional components at least 30 cm away from the TV set. If a VCR is installed in front or at the right side of the TV set, the picture may distort.

Heat

Do not touch the surface of the TV. It remains hot, even after the TV has been turned off for some time.

Oils

Do not install TV set in restaurants that use oil. Dust absorbing oil may enter into the TV set and damage TV set

Water and moisture

Do not use the TV set near water – for example, near a bathtub or shower room. Also, do not expose to rain, moisture or smoke. This might result in fire or electric shock. Do not use the TV set where insects may enter.

Disposal of the TV set

- Do not dispose of the TV set with general household waste
- The LCD contains a small amount of liquid crystal and mercury. The fluorescent tube used in the TV set also contains mercury. Follow your local ordinances and regulations for disposal

continued...

Installation and moving

Ventilation

Never cover the ventilation holes in the cabinet. It may cause overheating and result in fire. Unless proper ventilation is provided, the TV set may gather dust and get dirty. For proper ventilation, observe the following:



- Do not install the TV set turned backward or sideways.
- Do not install the TV set turned over or upside down.
- Do not install the TV set on a shelf or in a closet.
- · Do not place the TV set on a rug or bed.
- Do not cover the TV set with cloth, such as curtains, or items such as news papers, etc.

Vehicle or ceiling

Do not install this TV set in a vehicle. Bumping of the vehicle may cause the set to fall down and cause injury. Do not hang this TV set from the ceiling.



Servicing

Do not open the cabinet. Entrust the TV set to qualified service personnel only.



Moisture and flammable objects

- Do not let this TV set get wet.
 Never spill liquid of any kind on the TV set. If any liquid or solid object does fall through, do not operate the TV set. It may result in electric shock or damage to the TV set. Have it checked immediately by qualified personnel.
- To prevent fire, keep flammable objects or naked lights (e.g. candles) away from the TV set.

Protruding location

Do not install the TV set in protruding locations. If you install the TV set in the following locations, it may result in injury.

- Do not install the TV set in a location where the TV set protrudes, such as on or behind pillar.
- Do not install the TV set in a location where you might bump your head on it.

Cleaning

Unplug the mains lead when cleaning this TV set. If not, it may result in electric shock.

Recommended place for the TV set

Place the TV Set on a stable, level surface. Otherwise, the TV set may fall and cause injury.



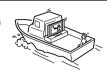
Outdoor use

Do not install this TV set outdoors. If the TV set is exposed to rain, it may result in fire or electric shock. If the TV set is exposed to direct sunlight, the TV set may heat up and it may damage the TV set.



Ships and other vessels

Do not install this TV set in a ship or vessel. If the TV set is exposed to seawater, it may cause fire or damage the TV set.



To prevent the TV set from falling

Place the TV set on a secure, stable stand. Do not hang anything on the TV set.

Ventilation holes

Do not insert anything in the ventilation holes. If metal or something flammable enters, it may result in fire or electric shock.



Placement

Never place the TV set in hot, humid or excessively dusty places. Do not install the TV set where it may be exposed to mechanical vibrations.



Cleaning the Screen Surface

The screen surface is finished with a special coating to prevent strong light reflections. Be sure to observe the following precautions to avoid the damaging the finish.

- To remove dust from the screen surface, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution. You can wash and repeatedly use the soft cloth.
- Never use any type of abrasive path, alkaline/acid cleaner, scouring powder, or strong solvent such as alcohol, benzine or thinner.

Precautions

On viewing the TV comfortably

- To view the TV comfortably, the recommended viewing position is from four to seven times of the screen's vertical length away from the TV set.
- View the TV in a moderate light room, as viewing the TV in poor light taxes your eyes. Watching the screen
 continuously for long periods of time can also tax your eyes.

On installing the TV set

- Do not install the TV in places subject to extreme temperature, for example in direct sunlight, or near a radiator,
 or heating vent. If the TV set is exposed to extreme temperature, the TV set may heat up and it may cause
 deformations of the casing or cause the TV set to malfunction.
- To obtain a clear picture, do not expose the screen to direct illumination or direct sunlight. If possible, use spot
 lighting directed down from the ceiling.
- The TV set is not disconnected from the mains when the switch is in Off position. To disconnect the set completely, pull the plug from the mains.

On volume adjustment

- Adjust the volume so as not to trouble neighbours. Sound carries very easily at night time. Therefore, closing the
 windows or using headphones is suggested.
- When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

On handling the remote control

- Handle the remote control with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote control in a location near a heat source, or in a place subject to direct sunlight, or in a damp room.

On cleaning the cabinet

- · Be sure to unplug the mains lead before cleaning.
- Clean the cabinet with a soft cloth lightly dampened. Do not use any type of abrasive pad, alkaline cleaner, scouring powder or solvent, such as alcohol or benzine, or antistatic spray.
- Note that material deterioration or screen coating degradation may occur if the TV is exposed to a volatile solvent, such as alcohol, thinner, benzine or insecticide, or if prolonged contact is maintained with rubber or vinyl materials.
- The ventilation holes can accumulate dust over a period of time and the accumulated dust may make the cooling
 function less effective. To prevent this, we recommend removing the dust periodically (once a month) using a
 vacuum cleaner.

On handling and cleaning the screen surface

To avoid screen degradation, follow the points mentioned below. Do not push on or scratch with hard objects, or throw anything at the screen. The screen may be damaged.

- Be sure to unplug the mains lead before cleaning.
- Do not touch the TV after operating continuously for along period as the display panel becomes hot.
- We recommend that the screen surface is touched as little as possible.
- Clean the screen with a soft cloth lightly moistened. Cleaning with dirty cleaning cloth may result in damage to
 the TV set. Never use any type of abrasive pad, scouring powder, or solvent, such as alcohol or benzine. This type
 of contact may result in damage to the screen surface.

Overview & Installation

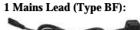
Checking the Accessories supplied

1 Remote control (RM-Y1108):

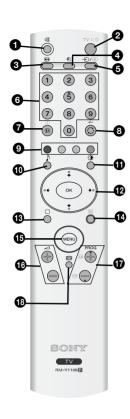


2 Batteries (AA size):





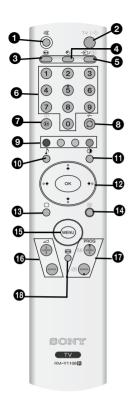
Overview of Remote Control Buttons



- **1** Muting the Sound: Press this button to mute the sound from the TV. Press it again to cancel.
- 2 TV V & Switching the TV to the standby mode: Press this button to temporarily turn off the TV and switch it to standby mode (the & (Standby/Sleep) indicator on the TV lights up in red). Press again to switch on the TV from standby mode.



- To save energy, we recommend switching the TV off completely when the TV is not in use.
- If no signal is received or no operation is performed in the TV mode for 15 minutes, the TV automatically switches to standby mode.
- **③ Picture Freeze:** Press this button to freeze the picture. For more details refer to "Picture Freeze" on page 27.
- **4 Turning on the Sleep Timer Function:** Press this button to set the TV to automatically switch to standby mode after a specified time period. For more details, refer to "Sleep Timer Function" on page 27.
- **Selecting the input source:** Press this buttons repeatedly until the input symbol of the desired source appears on the screen.
- O 9 Selecting Channels: Press these buttons to select channels. For double-digit channel numbers, enter the second digit within 2.5 seconds.
- **Displaying on-screen information:** Press this button to display all on-screen indicators. Press it again to cancel.
- **3** Watching Last Channel Selected: Press this button to watch the last channel selected (the last channel watched for at least five seconds).
- Fastext: In Teletext mode, these buttons can be used as Fastext buttons. For more details see page 28
- **Selecting a sound effect:** Press this button repeatedly to change the sound effect. For details on different sound effects refer to page 20
- Selecting the Picture Mode / Adjusting the Brightness Of Teletext Pages.
 - a) In normal TV mode: Press this button repeatedly to change the picture mode. For more details, refer to "Picture Adjustment" on page 18.
 - b) In Teletext mode: Press this button repeatedly to change the brightness of Teletext pages.

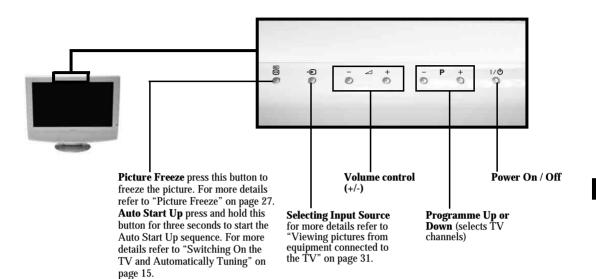


- - a) When the menu is displayed: use these buttons to operate the menu system. For more details, refer to "Introducing and Using the Menu System" on page 17.
 - b) When the menu is turned off: press OK to show an overview of all TV Channels. Then press ♠ or ♥ to select the channel and press OK to watch the selected channel.
- Selecting the TV mode: Press this button to switch off Teletext or video input.
- **♦ Selecting Teletext:** Press this button to switch on Teletext. For more details, refer to "Teletext" on page 28.
- **MENU** Displaying the menu system: Press this button to display the menu on the screen. Press it again to remove the menu from the screen.
- **⑥ △ +/- Adjusting the TV volume:** Press these buttons to adjust the volume of the TV.
- PROG +/- Selecting Channels: Press these buttons to select the next or previous channel.
- **Selecting screen format:** Press this button repeatedly to change the format of the screen. Refer to page 21.

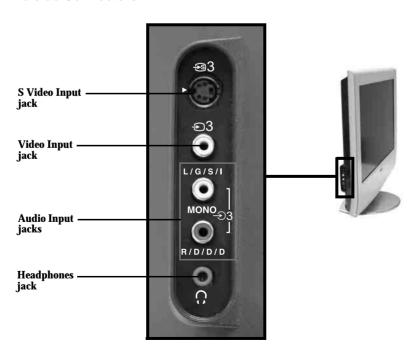
The buttons with green symbols (except for & (Power/Standby)) are also used for Teletext operations. For more details refer to "Teletext" on page 28.

Overview of the TV Buttons and side Connectors

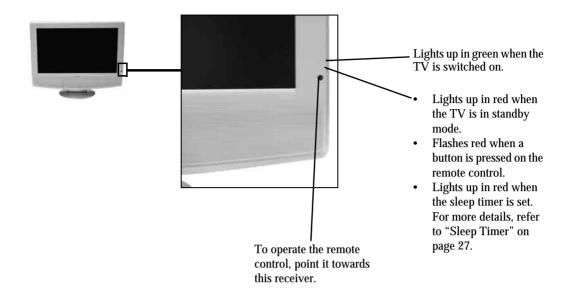
Overview of the TV Buttons



Overview of the side Connectors



Overview of the TV indicators



Inserting Batteries into the Remote Control

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Make sure you insert the supplied batteries using the correct polarities. Always remember to dispose of used batteries in an environmental friendly way.



Removing the Rear Cover

When you connect the cables, remove the rear cover of the TV set. Be sure to attach the rear cover back on the TV set after you finish connecting the cables.

Removing the rear cover

Hold the rear cover as illustrated below and pull off one side of the lower part of the cover towards you first. Then, detach the upper part of the cover from the TV set. Repeat this operation on the other side of the cover.





Attaching the rear cover

Hold the rear cover as illustrated below, fitting the four detents on the rear cover into the corresponding holes on the TV set, then push the rear cover back on to the TV set.

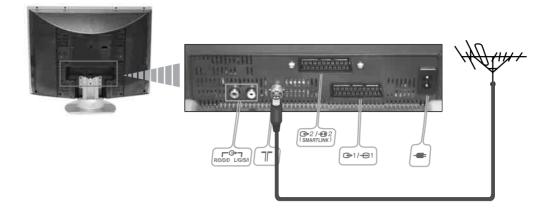




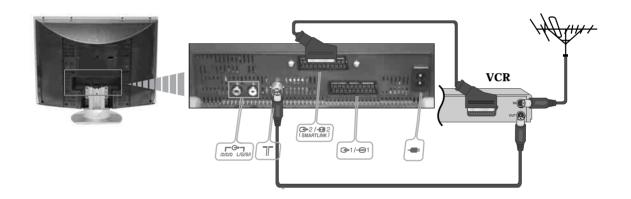
(i)

It is not necessary to attach the rear cover if you install a wall-mount bracket SU-LW1 (optional accessory).

Connecting the Aerial and VCR



or



- Make sure to connect the aerial before the Scart.
- For more details regarding VCR connection, refer to "Connecting Equipment to the TV" on page 29.

First Time Operation

Switching On the TV and Automatically Tuning

The first time you switch on your TV, a sequence of menu screens appear on the TV enabling you to: 1) choose the language of the menu screen 2) choose the country in which you are going to operate the TV, 3) search and store all available channels (TV Broadcast) and 4) change the order in which the channels (TV Broadcast) appear on the screen.

However, if you need to change any of these settings at a later date, you can do that by selecting the appropriate option in the 🖒 (Set Up menu) or by pressing and holding the Auto Start Up button 🖼 on the top of TV set for more than three seconds, see page 11.



1 Connect the TV plug to the mains socket (220-240V AC, 50Hz).



2 The first time that the TV set is connected, it is usually turned on. If the TV is off, press the O on/off button to turn on the TV.

The first time you switch on the TV, a Language menu appears automatically on the TV screen.



Press the \spadesuit , \clubsuit , \spadesuit or \Rightarrow buttons on the remote control to select your language, then press the **OK** button to confirm your selection. From now on all the menus will appear in your chosen language.



The **Country** menu appears automatically. Press the ♥ or ♠ button to select the country in which you are using the TV. Press the OK button to confirm your selection.



• If the country in which you want to use the TV set does not appear in the list, select "-" instead of a country.



 $\boldsymbol{5}$ The \boldsymbol{Auto} \boldsymbol{Tuning} menu appears on the screen. Press the \boldsymbol{OK} button to select Yes.



6 The TV starts to automatically search and store all available broadcast channels for you.



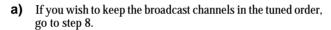
This procedure could take some minutes. Please be patient and do not press any buttons, otherwise automatic tuning will not be completed.

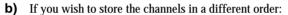


If no channels were found during the auto tune process, a message appears automatically on the screen asking you to connect the aerial. Check the aerial connection (refer to page 14). Press the **OK** button to restart the auto tuning process.

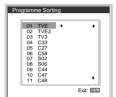


7 After all available channels are captured and stored, the Programme Sorting menu automatically appears on the screen enabling you to change the order in which the channels are stored.





- 1 Press the ♥ or ♠ button to select the programme number with the channel (TV Broadcast) you wish to move. Press the **→** button.
- **2** Press the **♣** or **♠** button to select the new programme number position for your selected channel (TV Broadcast). Press the **OK** button to store
- 3 Repeat steps b)1 and b)2 if you wish to change the order of the other channels.





8 Press the **MENU** button to remove the menu from the screen



Your TV set is now ready for use

TV Functions

Introducing and Using the Menu System

Your TV set uses an On-Screen menu system to guide you through the operations. Use the following buttons on the Remote Control to operate the menu system:



1 To switch on the menu screens:

Press the **MENU** button to switch the first level menu on.



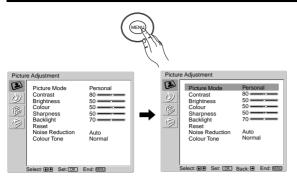
2 To navigate through the menus:

- To highlight and select the desired menu or option, press ♥ or ♠.
- To enter the selected menu or option, press ⇒.
- To return to the last menu or option, press ◆.
- To alter the settings of your selected option, press ♥/♠/◆ or ▶.
- To confirm and store your selection, press **OK**.

3 To switch off the menu screens:

Press the **MENU** button to remove the menu from the screen.

The Picture Adjustment Menu





The "Picture Adjustment" menu allows you to alter the picture settings.

To do this:

Press the MENU button and then press OK to enter this menu. Next, press ♥ or ♠ to select the desired option and press **OK**. Finally, read below how to operate into each option.



Picture Mode This option allows you to customise the picture mode based on the programme you are watching. After selecting this option press **OK**. Next, press repeatedly **\rightarrow** or **\Delta** to select:

> Live (for live broadcast programmes, DVD and Digital Set Top Box receivers).

Personal (for individual settings).

(for films).

Once you have selected your desired option, press **OK** to store.

"Brightness", "Colour", "Sharpness" and "Backlight" level of "Live" and "Movie" mode are fixed on the factory to get the best picture quality.

Contrast Press ◆ or ▶ to reduce or enhance picture contrast. Next, press **OK** to store.

Brightness Press ◆ or ▶ to darken or brighten the picture. Next, press **OK** to store.

This option only appears and can only be adjusted if "Picture Mode" is set to "Personal".

Colour Press ◆ or ▶ to decrease or to increase color intensity. Next press **OK** to store.

This option only appears and can only be adjusted if "Picture Mode" is set to "Personal".

Hue Press ◆ or ▶ to decrease or to increase the green tones. Next press **OK** to store.

This option only appears for NTSC signal (e.g. USA video tapes).

Press ◆ or ▶ to soften or to sharpen the picture. Next press **OK** to store. Sharpness

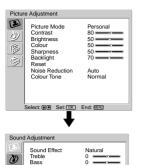
This option only appears and can only be adjusted if "Picture Mode" is set to "Personal".

Backlight Press ◆ or ◆ to darken or brighten the backlight.

 \triangle This option only appears and can only be adjusted if "Picture Mode" is set to "Personal".

Reset	Press OK to reset the picture to the factory preset levels.	
Noise Reduction	This option is set to Auto to automatically reduce the snowy picture visible in the weak broadcast signal. However, it can be modified. After selecting this option press ▶. Next, press ▼ or ♠ to select Off . Finally, press OK to store.	
Colour Tone	This option allows you to alter the tint of the picture. After selecting this option press ▶. Next, press repeatedly ▼ or ♠ to select: Warm (gives the white colours a red tint), Normal (gives the white colours a neutral tint), Cool (gives the white colours a blue tint). Finally press OK to store.	

🖎 The Sound Adjustment Menu



Balance Reset Dual Sound Auto Volume









The "Sound Adjustment" menu allows you to alter the sound settings.

To do this:

Press the **MENU** button and press **▼** to select (3), then press **OK** to enter this menu. Next, press ♥ or ♠ to select the desired option and press **OK**. Finally, read below how to operate into each option.



Sound Effect

ect: (A)(A) Set: [OK] End: (MENII

This option allows you to customise the sound effect. After selecting this option press **OK**. Next, press repeatedly **▼** or **↑** to select:

Natural Enhances clarity, detail and presence of sound by using "BBE High Definition Sound system"*.

Dynamic "BBE High Definition Sound system"* intensifies clarity and presence of sound for better intelligibility and musical realism.

Flat response.

Once you have selected your desired option, press **OK** to store.

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This function has no effect on headphones sound.

Treble Press or to decrease or to increase higher-frequency sounds. Next, press OK to store.

Bass Press or to decrease or to increase the lower-frequency sounds. Next, press OK to store.

Balance Press ◆ or ▶ to emphasise the left or the right speaker. Next, press **OK** to store.

Reset Press **OK** to reset the sound to the factory preset levels.

Dual Sound Press **→**. Next:

· For a Stereo broadcast:

Press ♥ or ♠ to select **Stereo** or **Mono**. Next press **OK** to store.

For a bilingual broadcast:

Press ♥ or ♠ to select **Mono** (for mono channel if available), **A** (for channel 1) or **B** (for channel 2). Next press OK to store.

Auto Volume Press ightharpoonup. Next press ightharpoonup or ightharpoonup to select **On** (the volume level of the channels will stay the same, independent of the broadcast signal, e.g. in the case of advertisements) or **Off** (the volume level changes according to the broadcast signal). Next press **OK** to store.

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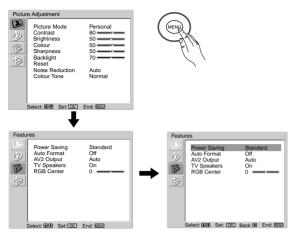
This function has no effect on headphones sound.



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The Features Menu





The "Features" menu allows you to alter various settings of the TV.

To do this:

Press the **MENU** button and press **♥** twice to select , then press **OK** to enter this menu. Next, press **▼** or **♦** to select the desired option and press OK. Finally, read below how to operate into each option.



POWER SAVING

This option allows you to reduce the power consumption of this TV.

To do this:

After selecting the option, press **OK**. Then, press **♥** or ♠ to select **Reduce**. Next, press **OK** to store.

AUTO FORMAT

This option allows you to automatically change the aspect ratio of the screen.

To do this:

After selecting the option, press **OK**. Then, press **♦** or **♠** to select **On** (if you wish the TV set to automatically switch the screen format according to the broadcast signal) or Off (if you wish to keep your preference). Finally, press **OK** to store.



Even if you have selected "On" or "Off", you can always modify the format of the screen by pressing ## repeatedly on the remote control to select one of the following formats:

SMART: Imitation of wide screen effect for 4:3 broadcast.



4/3: Conventional 4:3 picture size, full picture information.

14/9: Compromise between 4:3 and 16:9 picture size.

ZOOM: Widescreen format for letterbox movies.

WIDE: For 16:9 broadcast. Full picture information.





- In "SMART", "ZOOM" and "14/9" modes, parts of the top and bottom of the screen are cut off. Press ♥ or ♠ to adjust the position of the image on the screen (e.g. to read subtitles).
- According to the format of diffussion, black bands can always appear whatever the selected mode.

continued...

AV2 OUTPUT

The "AV2 Ouptut" option allows you to select the source to be output from the Scart connector → 2/ → so that you can record from this Scart the signal coming from the TV or the signal that is being viewed on the TV



If your VCR or DVD recorder supports SmartLink, this procedure is not necessary.

Once you have entered into the "Features" menu as it is explained in the previous page and after selecting the option, press **OK**. Then press **♥** or **♦** to select the desired output signal:

to output the aerial source.

AUTO to output the signal that is being viewed on the TV.



- If you select "AUTO", the output signal will always be the same one that is displayed on the screen.
 If you have connected a decoder to the Scort Or an arrived and a decoder to the Sc
 - If you have connected a decoder to the Scart \bigcirc 2 or to a VCR connected to this Scart, please remember to change back the "AV2 Output" to "TV" for correct unscrambling. Alternatively, set the "Decoder" option in the "Manual Programme Preset" menu to "On" for the scrambled programme. For more details refer to page 26.

TV SPEAKERS

This option allows you to turn off the TV speakers e.g. to listen to the sound through external audio equipment connected to the TV.

To do this:

Press the ♥ or ♠ buttons to select one of the following options, then press the **OK** button.

On The sound is output from the TV speakers.

One Time Off The TV speakers are temporarily turned off allowing you to listen to the sound from external

audio equipment.

The "TV Speakers" option automatically returns to "On" when the TV set is switched off.

Permanent Off The TV speakers are permanently turned off allowing you to listen to the sound from external

audio equipment.

To turn on the TV speakers again, change the "TV Speakers" option to "On".

RGB CENTER

This option is only available if an RGB source has been connected to the Scart connector 31 on the rear of TV.

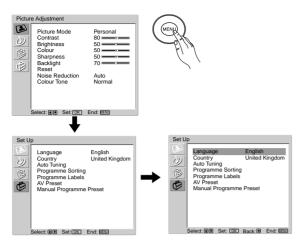
When viewing an RGB signal, the picture may need some adjusting. This option allows you to adjust the horizontal picture position so that the picture is in the middle of the screen.

To do this:

Once you have entered the "Features" menu as it is explained in on page 21 and while watching an RGB source select the "RGB Center" option and press **OK**. Then press ◆ or ▶ to adjust the centre of the picture between -5 and +5. Finally press **OK** to confirm and store.



🗭 The Set Up Menu





The "Set Up" menu allows you to alter various options on this TV.

To do this:

Press the **MENU** button and press **♥** three times to select , then press **OK** to enter this menu. Next, press ♥ or ♠ to select the desired option and press **OK**. Finally, read below how to operate into each option.



LANGUAGE

This option allows you to select the language that menus are displayed in.

To do this:

After selecting the option, press OK and then proceed in the same way as in step 3 of the section "Switching On the TV and Automatically Tuning" on page 15.

COUNTRY

This option allows you to select the country in which you wish to operate the TV set.

To do this:

After selecting the option, press **OK** and then proceed in the same way as in step 4 of the section "Switching On the TV and Automatically Tuning" on page 15.

AUTO TUNING

This option allows you to automatically search for and store all available TV channels.

To do this:

After selecting the option, press OK and then proceed in the same way as in the steps 5 and 6 of the section "Switching On the TV and Automatically Tuning" on page 16.

PROGRAMME SORTING

This option allows you to change the order in which the channels (TV Broadcast) appear on the screen.

To do this:

After selecting the option, press **OK** and then proceed in the same way as in the step 7 of the section "Switching On the TV and Automatically Tuning" on page 16.

continued...

PROGRAMME LABELS

This option allows you to name a channel using up to five characters (letters or numbers).

To do this:

- Once you have entered the "Set Up" menu as it is explained in the previous page and after selecting this option, press **OK**, then press **♥** or **♠** to select the programme number with the channel you wish to name. Next press **OK**.
- 2 With the first element of the Label column highlighted, press OK and ♣, ♠ or ▶ to select the letter, next

When you have finished, press \P , \P , \P or \P to select the word "End" on the screen and finally press QK to turn off the menu from the screen.



- To correct a letter, select "

 " on the screen to go back and press OK.
- For a blank, select "\[\]" on the screen and press **OK**.

AV PRESET

This option allows you to:

a) Designate a name to the external equipment you have connected to the input sockets of the TV set.

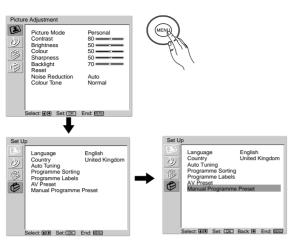
To do this:

- 1 Once you have entered the "Set Up" menu as it is explained in the previous page and after selecting this option, press **OK**, then press **♥** or **♠** to select the input source you wish to name: **AV1** and **AV2** for the rear Scarts and AV3 for side connectors. Next press OK twice.
- **2** A label automatically appears in the label column:
 - a) If you want to use one of the predefined labels, press ♥ or ♠ to select the desired label and finally press OK.
 - The total predefined labels are: VIDEO, DVD, CABLE, GAME, CAM (camcorder) or SAT (satellite).
 - b) If you want to set a different label, select **Edit** and press **OK**. Then, with the first element highlighted, press ₹, ♠, ← or ▶ to select the letter, next press OK. When you have finished, press ₹, ♠, ← or ▶ to select the word "**End**" on the screen and finally press **OK** to turn off the menu from the screen.
 - To correct the letter, select "☐" on the screen to go back and press **OK**. • For a blank, select "□" on the screen and press **OK**.
- **b)** Change the input sound level of the optional equipment connected.

To do this:

Once you have entered the "Set Up" menu as it is explained in the previous page and after selecting this option press **OK**, then press ♥ or ♠ to select the input source you want to alter the input sound level: **AV1** and **AV2** for the rear Scarts and AV3 for side connectors. Next press twice → to highlight the Sound Offset column. Finally press **OK** and \P or \P to alter the input sound level between -9 and +9.

The Manual Programme Preset Menu





The "Manual Programme Preset" option in the "Set Up" menu allows you to manually tune individual channels.

To do this:

Press the **MENU** button and press **♥** three times to select , then press **OK** to enter the "Set Up" menu. Next, press ♥ or ♠ to select "Manual Programme Preset" and press OK. Finally, read below how to operate into each option.

The Manual Programme Preset option allows you to:

a) Preset channels or the VCR channel one by one to the programme order of your choice.

To do this:

- Once you have entered the "Set Up" menu as it is explained on page 23 and after selecting the "Manual Programme Preset" option, press **OK**. Next with **Programme** option highlighted press **OK**. Press ♥ or ♠ to select which programme number you want to preset the channel on (for VCR, select programme number "0"). Then press \spadesuit .
- The following option is only available depending on the country you have selected in the "Country"

After selecting the **System** option, press **OK**. Then press **♥** or **♠** to select the TV Broadcast system (**B/G** for western European countries, **D/K** for eastern European countries, **L** for France or **I** for United Kingdom). Then press \blacktriangleleft .

After selecting the **Channel** option, press **OK**. Next press ♥ or ♠ to select the channel tuning ("C" for terrestrial channels or "S" for cable channels). Then press the number buttons to enter directly the channel number of the TV Broadcast or the channel of the VCR signal. If you do not know the channel number, press → and ▼ or ♠ to search for it. When you have tuned the desired channel, press **OK** twice to store.

Repeat all the above steps to tune and store more channels.

b) Label a channel using up to five characters.

To do this:

Once you have entered the "Set Up" menu as it is explained on page 23 and after selecting the "Manual Programme Preset" option, press **OK**. Next with the **Programme** option, highlighted press the **PROG** +/- button to select the programme number with the channel you wish to name. When the programme you want to name appears on the screen, press ♥ or ♠ to select the **Label** option and press **OK**. Then, with the first element highlighted, press \P , \P , \P or \P to select the letter, next press \P . When you have finished, press \P , \P or → to select the word "End" on the screen and finally press OK to turn off the menu from the screen. Finally press



- To correct a letter, select "

 " on the screen to go back and press OK.
- For a blank, select "□" on the screen and press **OK**.

c) Fine tune the broadcast reception. Normally the automatic fine tuning (AFT) will give the best possible picture, however you can manually fine tune the TV to obtain a better picture reception in case the picture is distorted.

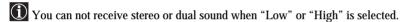
To do this:

While watching the channel (TV Broadcast) you wish to fine tune, and once you have entered the "Set Up" menu as it is explained on page 23 and after selecting the "Manual Programme" option, press **OK**. Then press ♥ or ♠ to select the AFT option and press ▶. Next press ♥ or ♠ to adjust the fine tuning between -15 and +15. Finally press **OK** twice to store.

- **d)** Improve the sound for individual channels in the case of distortion in mono broadcasts. (Not available when "System" is set to "L".)
 - Sometimes a non standard broadcast signal can cause sound distortion or intermittent sound muting when watching mono programmes. The **Audio Filter** option allows you to reduce this effect.
 - If you do not experience any sound distortion, we recommend that you leave the **Audio Filter** option set to the default setting of "Off".

To do this:

Once you have entered the "Set Up" menu as it is explained on page 23 and after selecting the "Manual Programme Preset" option, press **ÖK**. Next, press **♦** or **♠** to select the **Audio Filter** option and press **♦**. Next press ♥ or ♠ to select **Off**, **Low** or **High**.



e) Skip any unwanted programme numbers when they are selected with the PROG +/- buttons.

Once you have entered the "Set Up" menu as it is explained on page 23 and after selecting the "Manual Programme Preset" option, press **OK**. Next with the **Programme** option highlighted, press the **PROG** +/- button to select the programme number you want to skip. When the programme you want to skip appears on the screen, press ♥ or ♠ to select the **Skip** option and press ▶. Next press ♥ or ♠ to select **On**. Finally press **OK** twice to confirm and store.

To cancel this function afterwards, select "Off" instead of "On" in the step above.

- View and record scrambled channels (e.g. from a pay TV decoder) when using a decoder connected to Scart → 2/ → directly or through a VCR.
 - This option is only available depending on the country you have selected in the "Country" menu.

To do this:

Once you have entered the "Set Up" menu as it is explained on page 23 and after selecting the "Manual Programme Preset" option, press **OK**. Next press **♦** or **↑** to select the **Decoder** option and press **♦**. Next press **♦** or **♦** to select **On**. Finally press **OK** twice to confirm and store.

To cancel this function afterwards, select "Off" instead of "On" in the step above.

Other Functions



Sleep Timer

This function allows you to set the TV to switch itself automatically to standby mode after a specified time period. The following time periods can be selected: 30, 60, 90 and 120 minutes.

To do this:

Press the \bigcirc button on the remote control repeatedly until the desired time period appears on the screen.

When the Sleep Timer feature is on, the (Standby/Sleep) indicator on the TV lights up in red.

To cancel the Sleep Timer feature:

Press the 😩 button on the remote control repeatedly until "Off" appears on the screen.

- If you switch off the TV and switch it on again, the Sleep Timer feature is reset to "Off".
- Press the 🕦 button on the remote control to display the time remaining before the TV switches to standby mode.
- The message "Sleep Timer will end soon. Power will be turned off." Appears on the screen 1 minute before the TV switches to the standby mode.

Picture Freeze

This function allows you to freeze the TV picture (e.g. to make a note of a telephone number or recipe).

To do this:

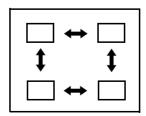
Press the button on the remote control to freeze the picture. A window is displayed in the bottom left of the screen showing the currently selected channel. Press the button again to remove the window. Press the button again to cancel the Picture Freeze and return to normal TV mode.

Adjusting the position of the Picture Freeze window

The position of the window displaying the currently selected channel can be adjusted.

To do this

With the TV in Picture Freeze mode, press the \blacktriangleleft , \Rightarrow , \blacktriangledown or \spadesuit buttons to adjust the position of the window on the TV screen.



Teletext



Teletext is an information service transmitted by most TV stations. The index page of the Teletext service (usually page 100) gives you information on how to use the service. To operate Teletext, use the remote control buttons as indicated below.

Make sure you use a channel (TV Broadcast) with a strong signal, otherwise Teletext errors may occur.

To switch on Teletext

After selecting the TV channel which carries the Teletext service you want to view, press

Each time you press \bigsim , the screen changes cyclically as follows:

Teletext mode \blacksquare Teletext Superimpose mode \rightarrow TV mode \rightarrow Teletext mode \rightarrow (repeat).

To select a Teletext page

Input three digits for the page number, using the number buttons.

- If you make a mistake, retype the correct page number.
- If the counter on the screen continues searching, it is because this page is not available. In this
 case, input another page number.

To access the next or preceding page

Press PROG + () or PROG - ().

To freeze a Teletext page

Some Teletext pages have sub-pages which follow on automatically. To stop them, press $-\bigcirc/\bigcirc$. Press it again to cancel the freeze.

To reveal concealed information (e.g. answers to a quiz)

Press (+)/? . Press it again to conceal the information.

To change brightness of Teletext:

Whilst you are viewing Teletext, press 🌣 repeatedly to choose between four different options of brightness.

To switch off Teletext

Press ().



If wrong Teletext characters appear for Cyrillic languages, we recommend you set the "Language" option in the "Set Up" menu to "Russia" if your country does not appear in the list. For details, refer to page 23.

Fastext

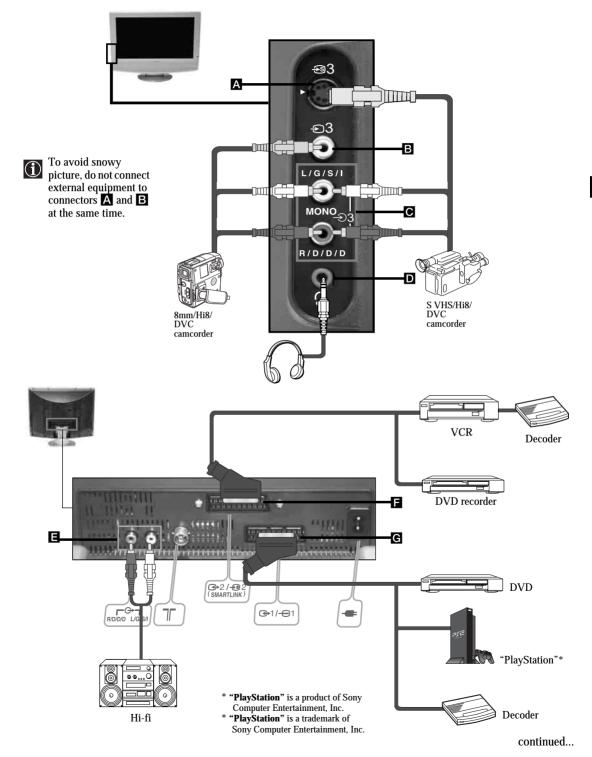


The Fastext service lets you access pages with one push of a button. Whilst you are in the Teletext mode and Fastext is broadcast, a colour coded menu appears at the bottom of the Teletext page. Press the colour button (red, green, yellow or blue) to access the corresponding page.

Additional Information

Connecting Equipment to the TV

- Using the following instructions you can connect a wide range of optional equipment to your TV set.
 Connecting cables are not supplied.



Connecting a VCR

To connect a VCR, please refer to the section "Connecting the aerial and VCR" of this instruction manual on page 14.

Connecting a VCR or a DVD recorder that supports SmartLink

SmartLink is a direct link between the TV set and a SmartLink compatible VCR/DVD recorder. For more information on SmartLink, please refer to the instruction manual of your SmartLink VCR/DVD recorder.

If you use a VCR or a DVD recorder that supports SmartLink, please connect the VCR or the DVD recorder to the TV using a Scart lead to the Scart \bigcirc 2/ \bigcirc **E**.

If you have connected a decoder or a Set Top Box to the Scart → 2/ ⊕ ☐ or through a VCR connected to this Scart

Select the "Manual Programme Preset" option in the "Set Up" menu and after entering in the "Decoder**" option, select "On" (refer to page 26). Repeat this option for each scrambled signal.

**This option is only available depending on the country you have selected in the "Country" menu.

Connecting Audio Equipment to the TV

To listen to the sound from TV on Hi-fi equipment.

Connect your audio equipment to the audio output sockets [if you wish to amplify the audio output from the TV. Next, using the menu system, select the "Features" menu and set the "TV Speakers" to "Permanent Off" (see page 22).



The volume of the external speakers can be altered by pressing the volume buttons on the TV remote control. The treble and bass setting can also be altered through the "Sound Adjustment" menu (see page 20).

Viewing pictures from equipment connected to the TV



- 1 Connect your equipment to the designated TV socket, as indicated on page 29.
- **2** Switch on the connected equipment.
- **3** To watch the picture from the connected equipment, press the \bigcirc / \bigcirc button repeatedly until the correct input symbol appears on the screen.

Input Signals Symbol

- **€**1 Audio / video input signal through the Scart connector G
- RGB input signal through the Scart connector **G**. This symbol appears only if -⊙1 an RGB source has been connected.
- Audio/video input signal through the Scart connector **F**. € 2
- -€§ 2 • S Video Input signal through the Scart connector **E**. This symbol appears only if an S Video source has been connected.
- **€**3 Video input signal through the phono socket B and Audio input signal through
- **€**3 • S Video Input signal through the side S Video input jack A and Audio signal through **C**. This symbol appears only if an S Video source has been connected.
- **4** Press the button on the remote control to return to the normal TV picture.

For Mono Equipment

Connect the phono plug to the L/G/S/I socket on the side of the TV and select €3 or €3 input signal using the instructions above. Next, refer to the "Sound Adjustment" section of this manual and set "Dual Sound" option to "A" on the sound menu screen (see page 20).

Technical Specifications

Panel System:

LCD (Liquid Crystal Display) Panel

TV System:

(Depending on the Country/region selection) B/G/H, D/K, L, I

Colour System:

PAL, SECAM

NTSC 3.58, 4.43 (Only Video In)

Aerial:

75 ohm external terminal for VHF/UHF

Channel Coverage:

(Depending on the Country/region selection)

VHF: E2-E12 UHF: E21-E69 CATV: S1-S20 HYPER: S21-S41

D/K: R1-R12, R21-R69 L: F2-F10, B-Q, F21-F69

I: UHF B21-B69

Screen Size:

27 Inches (approx. 68 cm. measured diagonally)

Display Resolution:

1280 dots (horizontal) x 720 lines (vertical)

Power Requirement:

220-240V AC: 50/60 Hz

Power Consumption:

110 W

Standby Power Consumption:

0.7 W

Sound Output:

10 W + 10 W (RMS)

Dimensions (w x h x d):

With stand, approx. 698 x 574 x 245 mm. Without stand, approx. 504 x 526 x 119 mm.

Weight:

With stand, approx. 14 Kg. Without stand, approx. 12 Kg.

Rear Terminals:

• AV1: 🕒 1/----1

21-pin Scart connector (CENELEC standard) including audio/video input, RGB input, TV audio/ video output.

• AV2: -2/-3 2 (SMARTLINK)

21-pin Scart connector (CENELEC standard) including audio/video input, S video input, selectable audio/video output and Smartlink interface.

- G Audio Outputs (left/right) phono jacks.
- T Aerial connector (RF In)

Side Terminals:

- AV3:
 - 3 S video input (4-pin mini DIN)
 - € 3 Video input (phono jack)
 - → 3 Audio input (phono jacks)
- headphones jack

Accessories supplied:

One Remote Control (RM-Y1108), Two Size AA batteries (R6 type), One Mains lead (Type BF)

Optional Accessory:

Wall-Mount Bracket SU-LW1. TV Stand SU-PG100.

Other Features:

- · Teletext, Fastext, TOPtext (depending on availability)
- · Sleep Timer
- Picture Freeze
- Smartlink (Direct link between your TV and a compatible VCR or DVD recorder. For more information on Smartlink, please refer to the instruction manual of your VCR or DVD recorder.)
- · TV system autodetection

This TV is compatible with the VESA universal wall stand system.

Design and specifications are subject to change without notice.

This instruction manual has been printed on: **Ecological Paper - Totally Chlorine Free**

Troubleshooting



Here are some simple solutions to problems which may affect the picture and sound.

roblem	Possible solution
o picture	
No picture (screen is dark) and no sound.	 Check the aerial connection. Connect the TV to the mains, and press the & power switch on the top side of the TV set. If the & (standby) indicator is on, press TV /& on the remote control.
The TV turns off automatically. (The TV enters the standby mode.)	• Check if the Sleep Timer is activated (page 27).
No picture or no menu information from equipment connected to the Scart connector.	 Check that the optional equipment is on and press the €/ € button repeatedly on the remote control until the correct input symbol is displayed on the screen (page 31). Check the connection between the optional equipment and the TV
oor picture/Unstable picture	
Double images or ghosting.	Check aerial/cable connections.Check the aerial location and direction.
Only snow and noise appears on the screen.	 Check if the aerial is broken or bent. Check if the aerial has reached the end of its serviceable life (3-5 years in normal use, 1-2 years at the seaside)
Dotted lines or stripes.	Keep the TV away from electrical noise sources such as cars, motorcycles, or hair-dryers.
No colour on colour programmes.	 Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings (page 19). If you set the "Power Saving" function to "Reduce," picture colours may become dimmer (page 21).
Some tiny black points and/or bright points on the screen.	• The picture of the display is composed of pixels. Tiny black points and/or bright points (pixels) on the screen, do not indicate a malfunction.
The picture is too bright.	• Using the menu system, select the "Picture Adjustment" menu and select "Picture Mode" Then select the desired picture mode (page 18).
Picture (stripe) noise.	Make sure that the aerial is connected.
	 Keep the aerial cable away from other connecting cords. Do not use 300-ohm twin lead cables as interference may occur.

Problem	Possible solution
Stripe noise during playback/recording of a VCR.	 Video head interference. Keep your VCR away from the TV. Leave a space of 30 cm between your VCR and the TV set to avoid noise. Avoid installing your VCR in front or at the side of the TV set.
Poor or no picture (screen is dark), but good sound.	• Using the menu system, select the "Picture Adjustment" menu and select "Reset" to return to the factory settings (page 19).
Noisy picture when viewing a TV channel.	 Using the menu system, select the "Manual Programme Preset" option in the "Set Up" menu and adjust Fine Tuning (AFT) to obtain better picture reception (page 26). Using the menu system, set the "Noise Reduction" option in the "Picture Adjustment" menu to reduce the noise in the picture (page 19).
Distorted picture when changing programmes or selecting teletext.	Turn off any equipment connected to the Scart connector on the rear of the TV set.
Cannot operate the menu	If the item you want to select appears in a pale colour is because you cannot select it.
Wrong characters appear when viewing teletext	Using the menu system, enter the "Country" option in the "Set Up" menu and select the country in which you operate the TV set (page 23).
No sound/Noisy sound	
Good picture, no sound.	 Press the ∠ +/- or □¾ (mute) on the remote control. Check that "TV Speakers" option is set to "On" in the "Features" menu (page 22).
Audio noise.	 Make sure that the aerial is connected. Keep the aerial cable away from other connecting cables. Do not use 300-ohm twin lead cables as interference may occur. Communication problems may occur if the infrared communication equipment (e.g. infrared cordless headphones) is used near the TV. Please use headphones other than infrared cordless headphones, move the infrared transceiver away from the TV until the noise is eliminated, or move the transmitter and receiver of the infrared communication equipment closer together. Using the menu system, select "Audio Filter" from the "Manual Programme Preset" menu. Next select "Low" or "High" (see page 26).
Unable to receive a stereo or dual soun broadcast	d • Check that the "Audio Filter" option in the "Manual Programme Preset" menu is set to "Off".(see page 26).

Problem	Possible solution
Strange sound	
The TV cabinet creaks.	 Changes in room temperature sometimes causes the TV cabinet to expand or contract, which can make slight noises. This does not indicate a malfunction.
The TV buzzes.	• There might be a surge sound when turning on the TV. This does not indicate a malfunction.
Remote Control Remote control does not function.	Replace the batteries.
The 🕁 (standby) or TV (power on) indicators on the TV flashes	Contact your nearest Sony service centre.

