ORION
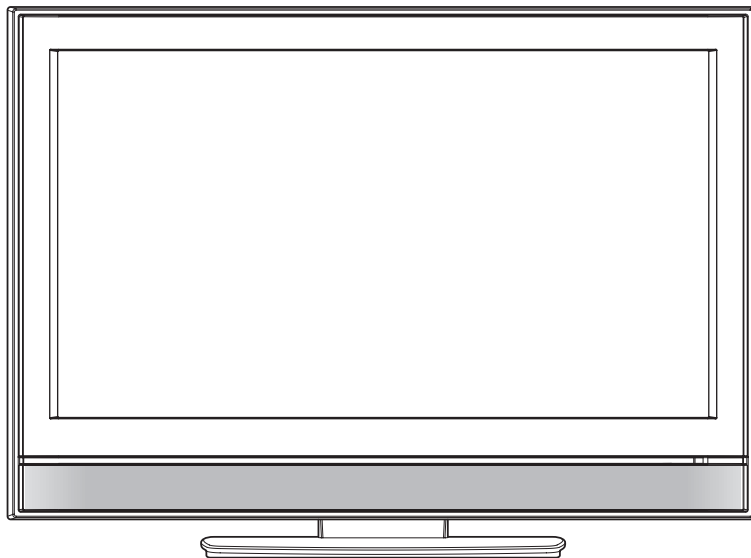
Operating Instructions

LCD Colour Television

TV-32082
TV-37094

HD ready

Before operating the unit, please read this manual thoroughly.

Features

- LCD MONITOR
  Resolution: 1366 x 768 pixels

- On-Screen Language Display in 13 languages (English, Spanish, German, French, Italian, Swedish, Dutch, Russian, Portuguese, Turkish, Greek, Finnish or Polish)

- NICAM/German A2 STEREO Reception

- Auto tuning system

- 99 Channel memory

- Videotext – Fastext/TOPtext

- Remote control

- Sleep timer

- 2 Scart sockets

- COMPONENT input

- Headphone Jack (for mini plug)

- PC Connection (VGA) (see page 27)

- 2 HDMI-connections

- 16 : 9 format

- Surround sound feature

- CE Symbol Guaranteeing Compliance to Currently Effective European Standards

Headphone Warning
Loud music can damage your hearing irreversibly, therefore do not set the volume to a high level when listening through headphones, particularly for extended listening periods.

Battery notice
Look after our environment - contact your local authorities for advice on how to safely dispose of exhausted batteries.

Waste Disposal Tip
This symbol means that your electrical and electronic equipment should be disposed at the end of its life separately from your household waste. There are separate collection systems for recycling in the EU. For more information, please contact the local authority or your retailer where you purchased the product.

2

Contents

* The "HD ready" Logo is a trademark of EICTA.

Important safety information

This unit has been produced according to all current safety regulations. The following safety tips should safeguard users against careless use and the dangers connected with such use.

- Although this appliance has been carefully manufactured and rigorously checked prior to leaving the factory, as with all electrical appliances it is possible for problems to develop. If you notice smoke, an excessive build-up of heat or any other unexpected phenomena, you should disconnect the plug from the mains power socket immediately.
- Ensure that the unit is sufficiently ventilated! Never place next to or underneath curtains!
- This set should be only be connected to an AC 230V/50Hz mains power supply - do not attempt to connect it to any other type of supply.
- The apparatus must be connected to a main socket outlet with a protective earthing connection.
- The socket-outlet must be installed near the equipment and easily accessible.
- Any repairs must be carried out by qualified service personnel only.
- Do not open this unit. A non-expert attempting to repair the unit could be dangerous and potentially cause a fire hazard.
- Keep away from rodents. Rodents (and also cockatiels) enjoy biting into electric flexes.
  The animal can cause a short cut (fire hazard!) and receive a fatal electric shock.
- Always hold plug when pulling out plug from power mains supply system. Do not pull on flex. The flex can become overloaded and cause a short cut.
- Never wet clean. Only use a damp cloth, the same as when cleaning furniture.
- Do not submerge in or under water!
- Set up unit so that no one is able to trip over the flex.
- Only use the unit on a stable, shock-free base in order to avoid any danger from falling.
- Take note that toddlers can pull the unit down from the table or cupboard by means of its flex. Children can hurt themselves when doing this.
- Do not use the unit near heat sources. The casing and flex could be damaged by the impact of heat.
- Watch out for kiddies copying what adults do! Do not stick any objects through the vents!
- The vents must remain open! No newspapers or covers should be put on the unit!
- The remote control is not a toy! Toddlers could swallow the batteries. If a battery has been swallowed, please seek out a doctor immediately.
- The screen is made of glass and can break if damage is done to it. Be careful when collecting sharp-edged glass splitters.
  You could be hurt or the unit could be damaged.
- If the unit is mounted on the wall, contact the shop where you purchased the unit for advice, and leave the installation work to experts. Incomplete installation work can cause you injuries.
- When installing the set on a wall, allow at least 6 cm clearance between the rear of the set and the wall. Clearance of less than 6 cm will obstruct the vents and cause the interior of the set to overheat, resulting in faults or damage to the set.
- Taking fall-prevention measures
  - If these measures are not taken, the unit can fall and you could be injured.
  - Contact the shop where you purchased the unit to obtain full details of the measures.
- When a TV stand is used,
  - Ensure the unit is fully on the stand and placed in the centre.
  - Do not leave the stand doors open.
  - You could be hurt as a result of the unit falling or breaking, or your fingers being caught or jammed. Take extra precautions if you have children.

Please pay attention to the following instructions in order to avoid receiving a life-threatening electric shock:
- Protect against moisture. Never use in the bath or sauna.
- Never use near a bath, shower or swimming pool.
- Never use the unit if it has got wet. This can also mean condensation moisture, which occurs in the winter when the cold unit is brought into a heated flat. Wait before operating the unit especially after it has been transported in the winter, until the cold unit has adjusted to the room temperature.
- Do not place any heavy objects on the flex. Electrical isolation could be damaged.
- Never wrap insulating tape around damaged flexes or on damaged plugs. These should be repaired or replaced by qualified service personnel.
- Never use this unit if the cabinet is defective. Do not make provisional repairs if the cabinet is damaged - this should be replaced by a new cabinet if necessary.
- Unplug the unit from the mains power supply prior to the cleaning of the unit.
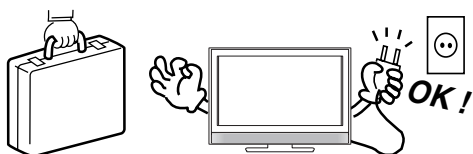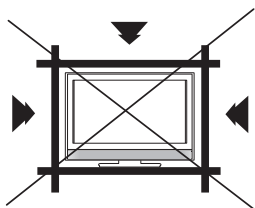
4

Avoid placing the unit on any surfaces that may be subject to vibrations or shocks.
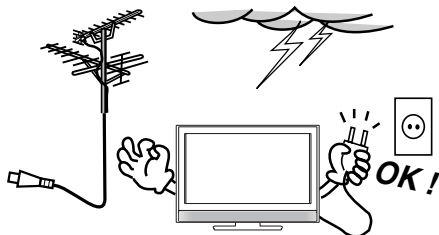
To protect the unit during a thunder storm unplug the AC power cord and disconnect the antenna. Caution: Do not touch the antenna connector.

When you leave your home for a long period of time, unplug the AC power cord for safety reasons.

The unit becomes warm when in operation. Do not place any covers or blankets on the unit in order to prevent overheating. The ventilation holes are not to be blocked. Do not set up near radiators. Do not place in direct sunshine. When placing on a shelf leave 10 cm free space around the whole unit.

10cm
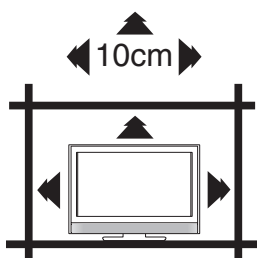
Make some space around TV (Correct shelf assembly).

The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
Liquids spilled into the unit can cause serious damage. Switch the set OFF and disconnect the mains power supply, then consult a qualified service person before attempting to use the unit again.

5

Important safety information

Moving the unit or carrying by hand

When the unit is moved a long way, unplug the power cord and disconnect the antenna, connecting cables and any fall-prevention apparatus.
- Moving without doing so could result in damage to the power cord, a fire, electric shocks or injuries from dropping the unit.

Ensure that unpacking and transfer of the unit is carried out by two or more people and that the unit stays upright when doing this.

When the TV stand has casters, remove caster cups from the stand and push it while supporting the unit.
- Ensure that you support the unit when the stand is pushed, as this can cause the unit to fall and you could be injured.
- The appliance could leave indentations in wooden tables with extremely soft wooden surfaces due to its heavy weight.
- Furniture polish could corrode and dissolve rubber feet. Black imprints could be visible on the table. You should therefore only use TV benches, which have been constructed for this specific purpose.

Secure the casters when the unit is installed on a TV stand with casters.
- The stand can move and you could be hurt if the casters are not secured. Remove casters when the stand is placed on a soft surface such as a mat and carpet.

The distance between eyes and the screen should be about 5 ~ 7 times as long as diagonal length of the screen.
- Viewing from too close a distance can cause strain for your eyes.
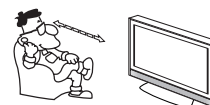
When installing the Monitor on a table, be careful not to place the edge of its stand.
- This may cause the Monitor to fall, causing serious injury to a child or adult, and serious damage to the Monitor.

Possible Adverse Effects on LCD Screen: If a fixed (non-moving) pattern remains on the LCD screen for long periods of time, the image can become permanently engrained in the LCD TV panel and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. Never leave your TV on for long periods of time while it is displaying the following formats or images:
- Fixed Images, such as stock tickers, video game patterns, TV station logos, and websites.
- Special Formats that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (Black bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (Black bars on left and right sides of screen).

Attention!
Cleaning instructions for your LCD TV.

Safety note:
Before you start to clean, switch the set's power off completely and disconnect the plug from the mains power supply.

Be careful not to scratch the plastic coated front panel - it is highly vulnerable to accidental scratching (e.g. by fingernails or other sharp items). (While cleaning, do not wear jewelery) that could cause surface scratching (such as rings, wrist-watch, etc.). Use a lint-free cloth and pure water to clean with, but make sure the cloth is thoroughly wrung out so that it is just damp and not soaking wet - also make sure that the cloth is free from any dirt that could cause scratching to the surface.
Wipe the set clean using minimal pressure.
Do not use standard window cleaning fluid. Its alcohol / ammonia will dissolve the front window's coating. Never use solvent or thinner. Never use special cleaners which are designed for cleaning PC Monitors or CRT TVs. Finally carefully rub dry with a clean dry lint-free cloth.
Do not use paper towels or tissues to clean the set - paper can disintegrate when wet or may leave a trail of dust behind. Some paper can also be abrasive and scratch your screen.

6

Front Side
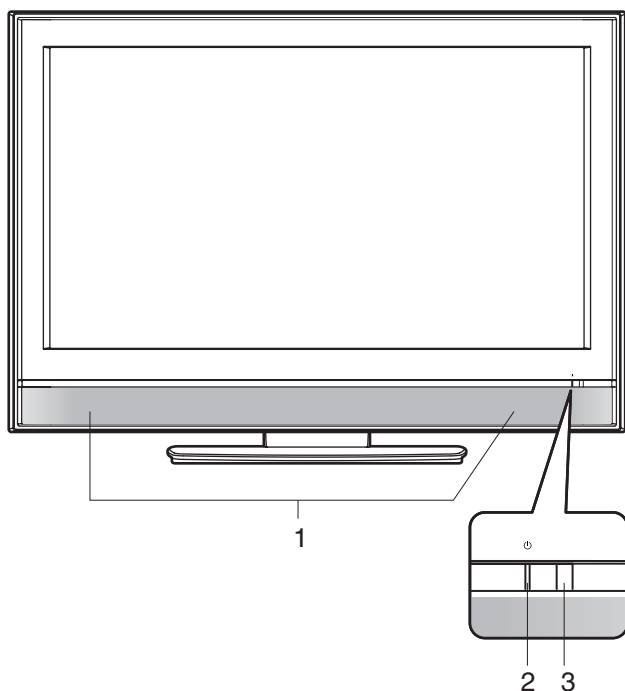
Right Side (TV-37094)

1

2 3

Top (TV-32082)

5   4   6 7   8
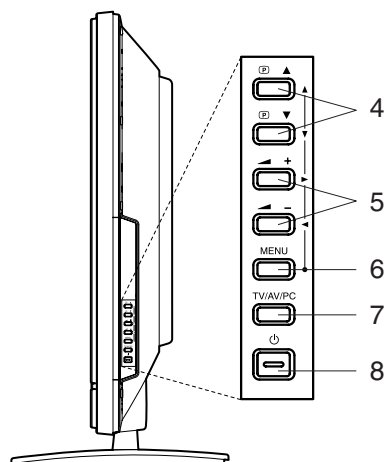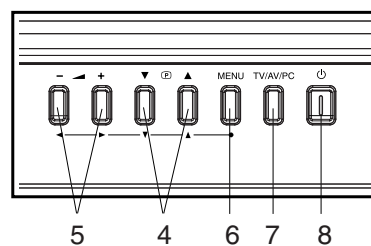
Description of Indicators and Controls

1. **Loudspeakers**
2. ⏻ **(On/Standby) indicator:** It lights up in red at standby, and in green at power on.
3. **Remote sensor**
4. P **(Channel) ▲/▼ buttons:** Press ▲ to change to a higher numbered channel set into memory. Press ▼ to change to a lower numbered channel set into memory. In Menu: Setting. In Standby: Turning on the unit.
5. ◢ **(Volume) +/– buttons /** In Menu: Setting.
6. **MENU button:** To display the menu screen.
7. **TV/AV/PC button:** Select input mode for TV/AV/COMPONENT/HDMI/PC.
8. ⏻ **(Power) button:** To turn the unit on or off. Power is still used unless the AC power cord is disconnected from the supply.

7

Remote Control
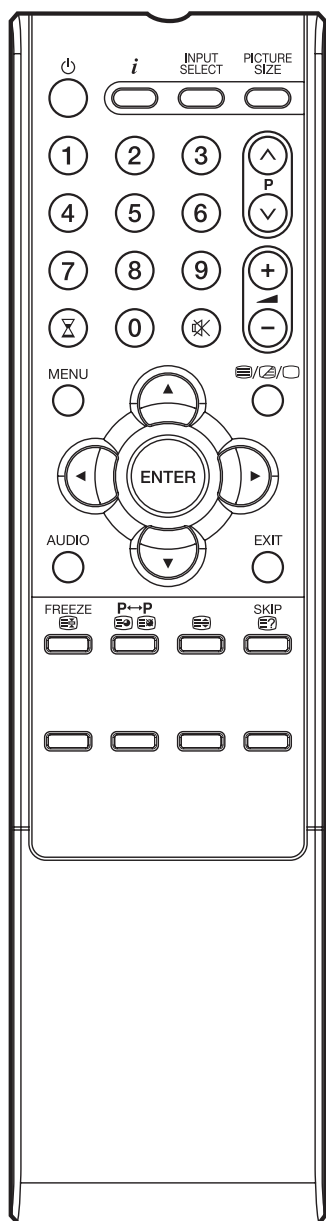
	Function	Page
⏻	Enter standby mode or turn on the power	11
i	Display program position number Teletext time display	17
INPUT SELECT	Select an input source	11, 27, 33~35
PICTURE SIZE	Select picture format	25
⓪~⑨	Select channel Select Teletext page	13, 17, 32 30, 31
∧ P ∨	Change the TV channel or Teletext page up or down In Standby: Turn on the power	17, 30, 32 11
+ ◢ −	Volume	17
⧗	Sleep Timer	17
ⓧ	Turn the sound on/off	17
MENU	Activate the Menu	
▤/▨/◻	Teletext ON / Mix / OFF	30
Cursor buttons	Cursor buttons	
ENTER	Memorize Teletext page 100	31
AUDIO	Select between the available broadcast audio	19
EXIT	Exit the menu screen	
FREEZE	Still picture Hold the text page	17 31
P↔P	Switches between the present channel and the last selected channel Sub Page selection	17 31
▤	Teletext enlargement	31
SKIP	Program position-skipping Reveal quiz page answers	32 31
▭▭▭▭	Fastext/TOPtext buttons	30

8

Install the batteries

Use batteries type UM3 (AA-Size).
Do not use old or weak batteries. The remote control may not work properly with a weak voltage from such batteries. Replace exhausted batteries with new ones. Never try to recharge normal batteries - this could cause an explosion.
Note:
Exhausted batteries can leak corrosive electrolyte, which may cause damage to the remote control - therefore remove exhausted batteries immediately.

1 Open the battery compartment.
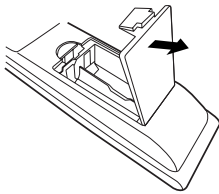
2 Install the batteries as shown below, ensuring the correct polarity.
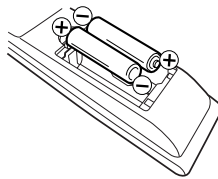
3 Close the battery compartment.
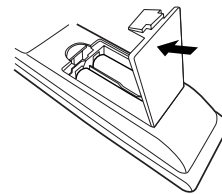
Distance of Remote Control Operation

Point the remote control directly at the remote sensor.

Remote sensor

Maximum distance approx. 5m

30°   30°

Transmitter window
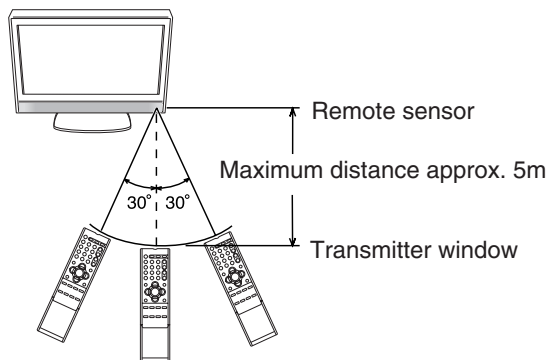
The remote control handset will not work properly in the following cases:
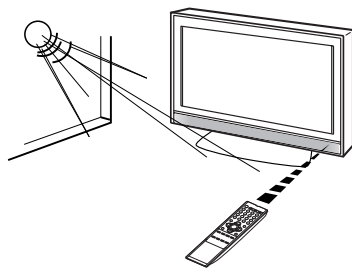
If bright sunlight directly beams onto the unit front.

If an obstacle is placed between the unit and the handset.
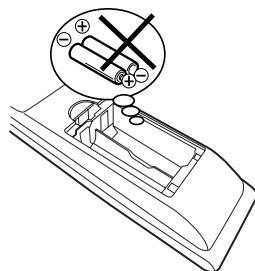
If the batteries have not been installed according to their polarities.
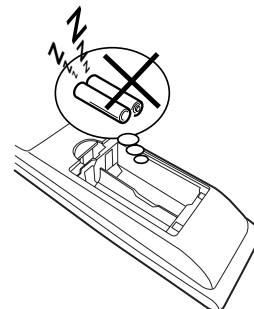
If the batteries are weak.

9

Antenna connection

Note: Before you connect other appliances:
- To avoid potentially damaging your set, make sure all items are switched off and disconnected from the mains power when you make the connections.
- Arrange the desired connection.
- When you have finished making the connections, reconnect the mains power to the unit and switch it back on.

Connect your antenna as shown below (A). Connections to other equipment is explained further on pages 33-35. If you have problems with reception, consult a specialist of antenna.

Back Side
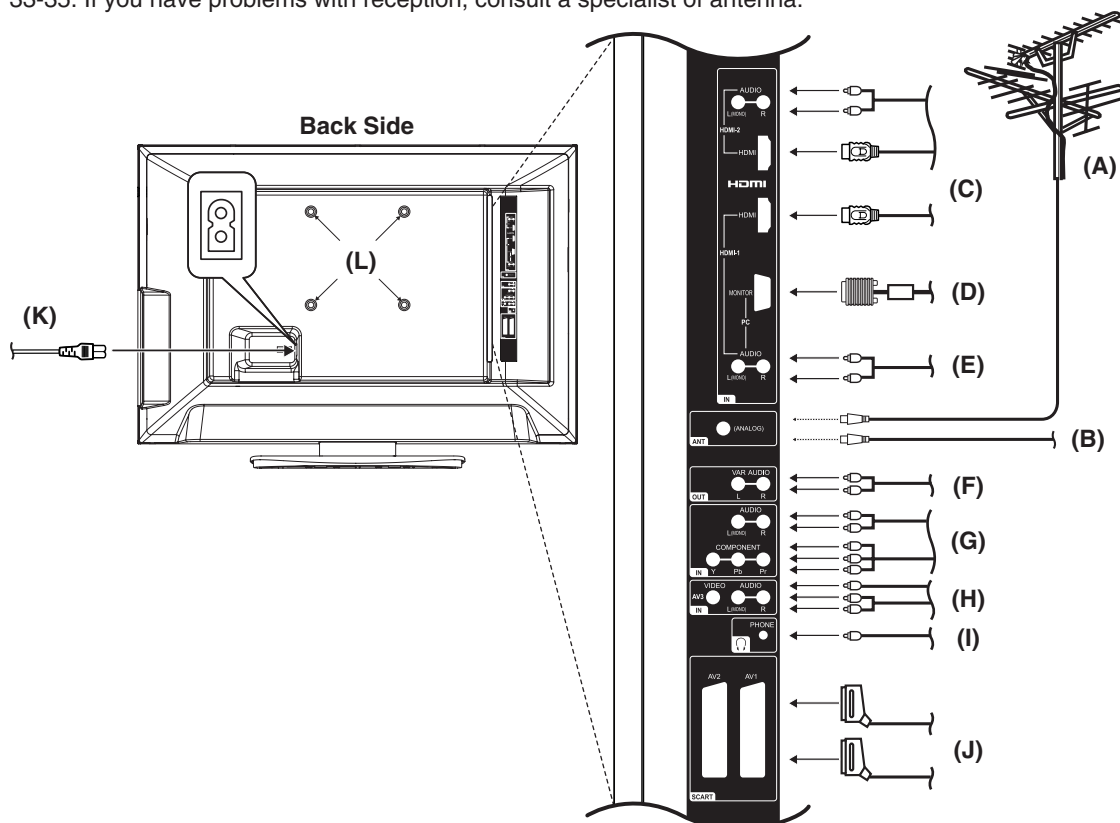
(A) **Outdoor antenna:** If the outdoor antenna already exists, you can also connect to it for analog TV-program.
(B) **CATV connection**: The built-in Hyperband CATV tuner can receive analogue cable television programs (this is only applicable in some countries).
(C) **HDMI input (HDMI-1/HDMI-2):** See page 29.
(D) **PC Monitor input (PC):** See page 27.
(E) **HDMI-1 AUDIO/PC AUDIO (LR) IN jacks:** See page 27, 29.
(F) **Variable Audio output:** To connect to an audio amplifier and external speakers - the audio output level is varied using the TV's remote control. You can also disable the TV's built-in speakers if desired (see page 21).
**(G)** **COMPONENT input:** See page 34, 35.
(H) **AV3 input:** Input for analogue A/V-Signal (Composite). See page 34.
(I) **PHONE jack:** Plug headphones with a mini plug (3.5 mm) into this jack.
(J) **Scart sockets (AV1/AV2):** For the connection of scart cables. See page 33.
(K) **Power supply:** Connect the supplied power cable to an AC 230V/50Hz mains power supply only - do not attempt to connect it to any other type of supply. Never try to repair a damaged AC power cord with isolation-tape - this should be repaired by a specialist or replaced. Do not let your pet loose near the cable. Animals biting into the cable could receive a fatal electric shock, and could cause a hazard to others.
(L) **Bracket holes:** Fix a wall mounting bracket (not supplied) here.

10

Quick guide for MENU operation/Selecting the video input source

Make sure the antenna connection and power supply are connected as per the description on previous page.

Preparation:
Turn on the unit with the ⏻ (Power) button on the right hand side of the unit (TV-32082: top). The ⏻ (On/Standby) indicator will light up in green.

To change the unit to standby mode, press ⏻ on the remote control. ⏻ (On/Standby) indicator will change from green to red. To turn on the unit from standby mode, press ⏻ on the remote control again.
In standby mode, you can also turn the unit on with Ⓟ (Channel) ▲/▼ on the unit or **P** ∧ / ∨ on the remote control.
To turn off the unit press ⏻ (Power) button on the unit - to completely switch it off, disconnect the mains power supply.

Note:
If no buttons are pressed for more than approx. 60 seconds, the MENU disappears automatically.

Quick guide for MENU operation

Notes:
- When you turn on the unit for the first time, the Language selection screen will appear. Select your desired language with 🔼 or 🔽. Press **MENU** to exit the language selection screen.
- Press **1**. CH1 will appear.

```
LANGUAGE

ENGLISH        РУССКИЙ
ESPAÑOL        PORTUGUES
DEUTSCH        TÜRKÇE
FRANÇAIS       EΛΛHNIKA
ITALIANO       SUOMI
SVENSKA        POLSKI
NEDERLANDS

▲▼ : SELECT      ◀▶ : SELECT
ENTER : SET      EXIT : END
```

Call MENU and for example: Select AUTO TUNING.

1 Press **MENU**.

2 Press ◁ or ▷ to select 🔧 .

```
AUTO TUNING            ▶
MANUAL TUNING          ▶
CH ALLOCATION          ▶
TELETEXT LANGUAGE      WEST
LANGUAGE               ▶
VERTICAL POSITION      ▶
AUTO 4:3 DEFAULT       FULL
▼

▲▼ : SELECT      ◀▶ : ADJUST
EXIT : END       MENU : END
```
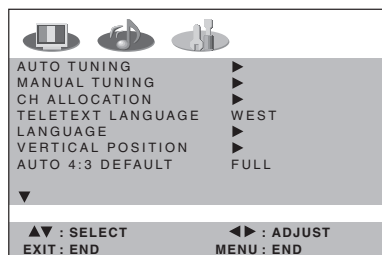
3 Press 🔼 or 🔽 to select AUTO TUNING.

... on the following pages the MENU can be called in the same way as here.

```
AUTO TUNING            ▶
MANUAL TUNING          ▶
CH ALLOCATION          ▶
TELETEXT LANGUAGE      WEST
LANGUAGE               ▶
VERTICAL POSITION      ▶
AUTO 4:3 DEFAULT       FULL
▼

▲▼ : SELECT      ◀▶ : ADJUST
EXIT : END       MENU : RETURN
```
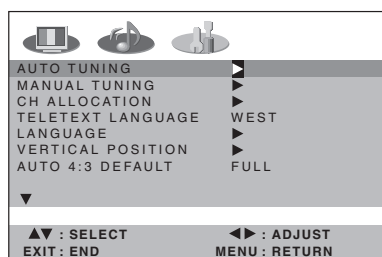
4 Press **EXIT** to return to the normal screen.

Selecting the video input source

Press **INPUT SELECT** to view a signal from another device connected to your TV, such as a VCR or DVD player. You can select each input source depending on which input jacks you used to connect your devices.

```
SOURCE SELECTION

0.TV
1.AV1
2.AV2
3.AV3
4.COMPONENT
5.HDMI1
6.HDMI2
7.PC

[0-7] : SELECT
ENTER : SET
```

To select the video input source, press 🔼/🔽 or the corresponding number button. Then press **ENTER** within 6 seconds.
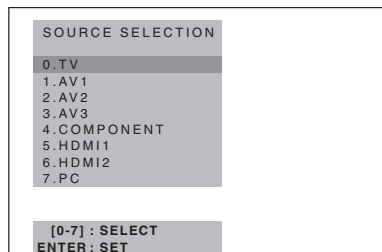
On-screen Language Selection/Teletext Language Selection

On-screen Language Selection

1 Select LANGUAGE (unless you have already selected when the set was first switched on).
Then press [▷] to display LANGUAGE menu.

```
AUTO TUNING              ▶
MANUAL TUNING            ▶
CH ALLOCATION            ▶
TELETEXT LANGUAGE        WEST
LANGUAGE                 ▷
VERTICAL POSITION        ▶
AUTO 4:3 DEFAULT         FULL

▼
▲▼ : SELECT              ◀▶ : ADJUST
EXIT : END               MENU : RETURN
```
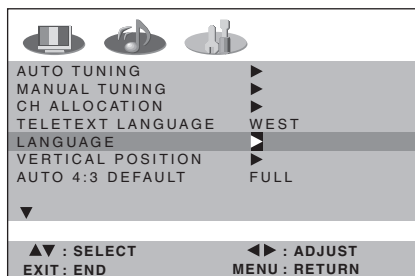
2 Press △, ▽, ◁ or ▷ to select the desired language.

```
LANGUAGE

ENGLISH          РУССКИЙ
ESPAÑOL          PORTUGUES
DEUTSCH          TÜRKÇE
FRANÇAIS         ΕΛΛΗΝΙΚΑ
ITALIANO         SUOMI
SVENSKA          POLSKI
NEDERLANDS

▲▼ : SELECT      ◀▶ : SELECT
ENTER : SET      MENU : RETURN
```

3 Press **EXIT** to return to the normal screen.

Teletext Language Selection

1 Select TELETEXT LANGUAGE.
Then press ◁ or ▷ to select WEST or EAST according to your country (WEST is for Western Europe, EAST is for Eastern Europe).

```
AUTO TUNING              ▶
MANUAL TUNING            ▶
CH ALLOCATION            ▶
TELETEXT LANGUAGE        WEST/EAST
LANGUAGE                 ▶
VERTICAL POSITION        ▶
AUTO 4:3 DEFAULT         FULL

▼
▲▼ : SELECT              ◀▶ : ADJUST
EXIT : END               MENU : RETURN
```

2 Press **EXIT** to return to the normal screen.

12
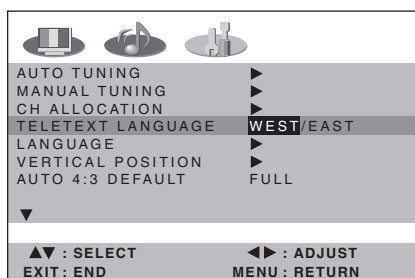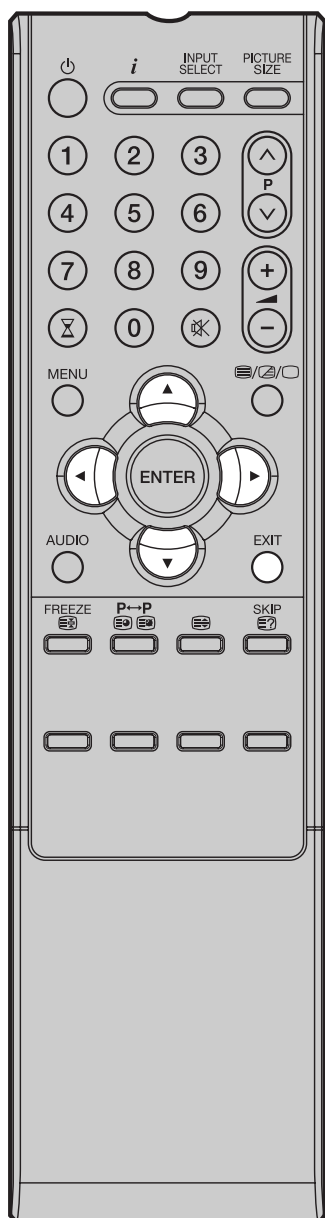
Automatic station presetting with the built-in Tuner

The Automatic station presetting feature is for the set's built-in analogue tuner only. If you have a device such as a digital decoder (eg. Satellite or Digital Terrestrial) connected (see P.16), you would need to tune it in separately according to its own instructions.

Preparation:
Make sure your antenna is connected to the antenna input (see P.10).
Press 1 to switch to CH1 to begin with.

1 Select AUTO TUNING.

```
 🖥️   🎵   🔧

AUTO TUNING              ▶
MANUAL TUNING            ▶
CH ALLOCATION            ▶
TELETEXT LANGUAGE        WEST
LANGUAGE                 ▶
VERTICAL POSITION        ▶
AUTO 4:3 DEFAULT         FULL

▼
─────────────────────────────────
▲▼ : SELECT            ◀▶ : ADJUST
EXIT : END             MENU : RETURN
```
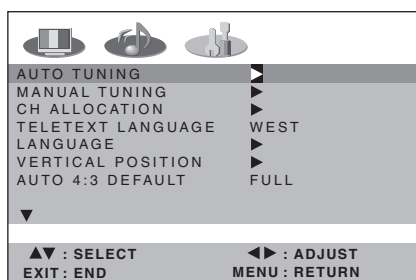
2 Press 🔘 then press 🔘 or 🔘 to select the correct TV broadcast colour system.

```
AUTO TUNING

PAL                      ▶
SECAM                    ▶
PAL / SECAM              ▶




─────────────────────────────────
▲▼ : SELECT            ◀▶ : ADJUST
EXIT : END             MENU : RETURN
```
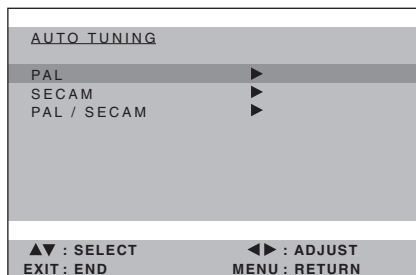
3 Then press 🔘.
The automatic tuning will search for available broadcasts and should store the channels in the correct order. During the search the sound is muted. When all programs have been stored, the AUTO TUNING menu will appear automatically.

```
PAL                           CH  1




                              ▶▶
████████──────────────────────────
```

13
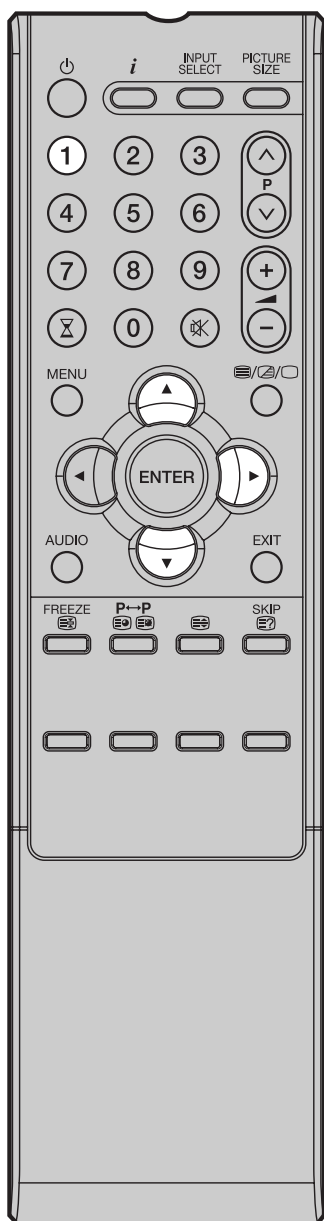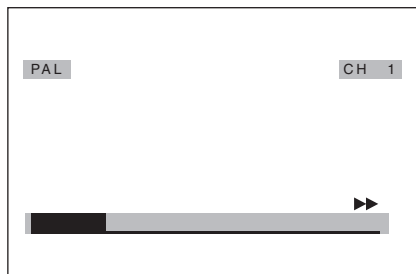
Changing the order of stored channels

The Automatic station presetting stores the stations in a specific order. However, this order can be changed if you wish.

Note:
When changing the order of the channels, it is best to start with Ch1.

1 Select CH ALLOCATION.
Then press ⏵.

```
┌─────────────────────────────────────────────┐
│  ▣      ♫      ⚒                              │
│                                              │
│  AUTO TUNING              ▶                   │
│  MANUAL TUNING            ▶                   │
│  CH ALLOCATION            ▶                   │
│  TELETEXT LANGUAGE        WEST                │
│  LANGUAGE                 ▶                   │
│  VERTICAL POSITION        ▶                   │
│  AUTO 4:3 DEFAULT         FULL                │
│                                              │
│  ▼                                           │
│                                              │
│  ▲▼ : SELECT          ◀▶ : ADJUST            │
│  EXIT : END           MENU : RETURN          │
└─────────────────────────────────────────────┘
```
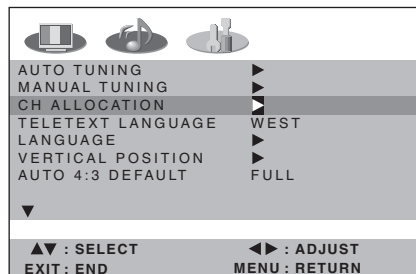
2 Press ⌃ or ⌄ until the position number that you want to move is selected (e.g. CH 40), then press **ENTER**.

```
┌─────────────────────────────────────────────┐
│                                              │
│                                 CH 40        │
│                                              │
│  CH ALLOCATION                  CH  1        │
│                                              │
│                                              │
│                                              │
│  ▲▼ : SELECT                                 │
│  ENTER : SET           MENU : RETURN         │
└─────────────────────────────────────────────┘
```
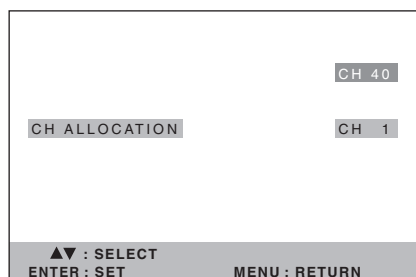
3 Press ⌃ or ⌄ until the channel position that you want to move the program to is selected (e.g. CH 5), then press **ENTER**.

```
┌─────────────────────────────────────────────┐
│                                              │
│                                 CH 40        │
│                                              │
│  CH ALLOCATION                  CH  5        │
│                                              │
│                                              │
│                                              │
│  ▲▼ : SELECT                                 │
│  ENTER : SET           MENU : RETURN         │
└─────────────────────────────────────────────┘
```
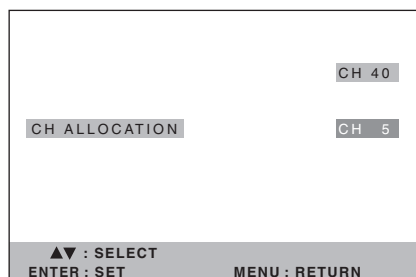
4 The original program 40 is now stored in memory position 5. To arrange the other channels, repeat this procedure or...

```
┌─────────────────────────────────────────────┐
│                                              │
│                                 CH  5        │
│                                              │
│  CH ALLOCATION                  CH 40        │
│                                              │
│                                              │
│                                              │
│  ▲▼ : SELECT                                 │
│  ENTER : SET           MENU : RETURN         │
└─────────────────────────────────────────────┘
```
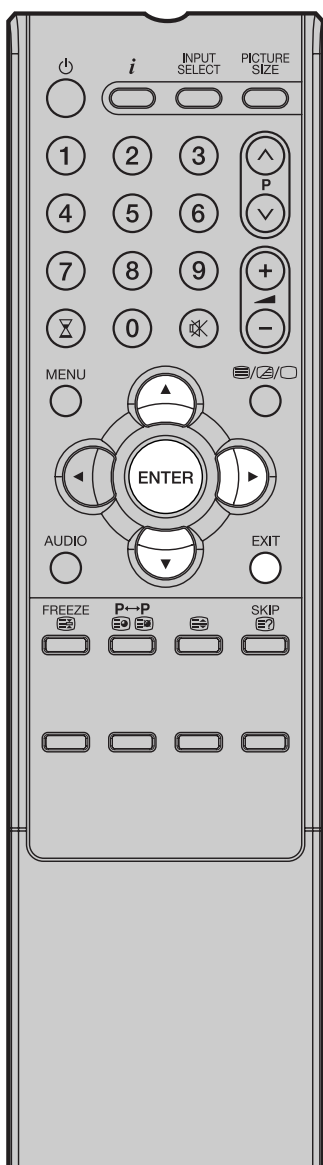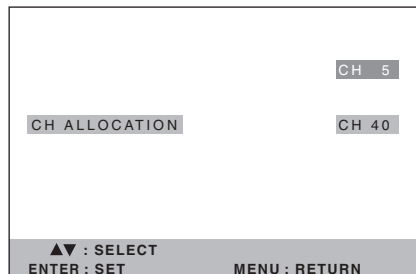
5 Press **EXIT** to return to the normal screen.

14

Manual TV station presetting

Usually the Automatic station presetting stores all available stations in that particular area. However, if the reception is poor, some broadcasts may not be stored. If you do want to store them, you can use the manual tuning procedure described below

Example: Preset the ZDF on program position 2.

1 Select MANUAL TUNING. Then press ▷.

```
AUTO TUNING              ▶
MANUAL TUNING            ▶
CH ALLOCATION            ▶
TELETEXT LANGUAGE        WEST
LANGUAGE                 ▶
VERTICAL POSITION        ▶
AUTO 4:3 DEFAULT         FULL
▼
▲▼ : SELECT          ◀▶ : ADJUST
EXIT : END           MENU : RETURN
```

2 Press ◁ or ▷ to select PAL or SECAM-L. Then press **ENTER**.

```
PAL                        CH   1



ENTER : SET          ◀▶ : ADJUST
                     MENU : RETURN
```

3 Press ▷ . The auto search starts forward. It will stop at each station with good reception. Press ▷ again until you receive the ZDF. Then press **ENTER**.

```
PAL                        CH   1


                           ▶▶
▲▼ : F.TUNING        ◀▶ : SEARCH
ENTER : SET          MENU : RETURN
```
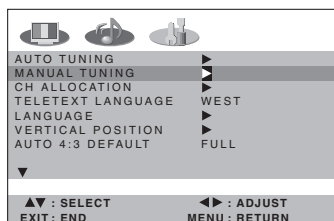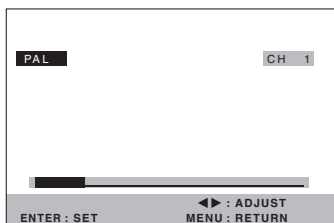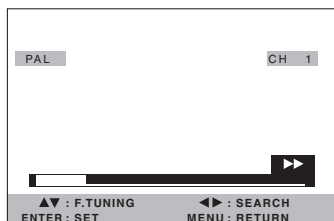
4 The channel position number will be highlighted. Press ⌃ or ⌄ repeatedly until the number next to CH change to 2. Then press **ENTER**.
The ZDF was now stored in the channel position **CH 2**.

```
PAL                        CH   2



▲▼ : SELECT
ENTER : SET          MENU : RETURN
```
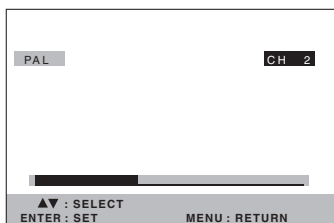
5 Repeat the steps **2** and **4** to preset other TV stations.

6 Press **EXIT** to return to the normal screen.

Notes:
- The auto search stops at the best reception for each channel automatically, so manual fine tuning is not normally necessary. However if you wish to, you can manually fine tune the station - in step 3 when the auto search has stopped at the station, press ⌃ or ⌄ until the desired fine tuning is achieved. Then press **ENTER**.
- The search moves up to the next station position automatically. If you want to you can also stop the search manually - press ◁ or ▷ at the desired position and the search will stop. If necessary you can operate the fine tuning as described above.

15

Connection to Satellite Receiver

Connect with Satellite receiver as shown below.
Select the TV-Program at the satellite receiver. To do this, use the remote control of the satellite receiver. You can not store the same station once again additionally in LCD-Monitor which already stored in satellite receiver.

Satellite
Receiver

TV

To AV1

Scart-cable (not supplied)
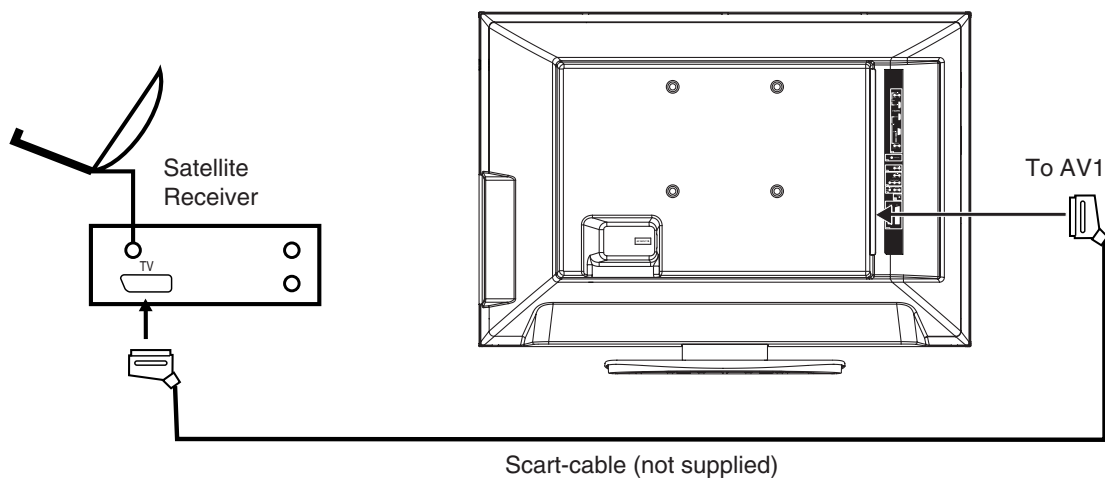
Channel selection

With the **numbered buttons**.
Example:
- No. 2: Press **0** and within 2 seconds, press **2**.
  The station stored on CH 2 will appear.
- No. 29: Press **2** and within 2 seconds, press **9**.
  The station stored on CH 29 will appear.

Press P ∧ or ∨ to change up or down a channel.
This takes approx. 2 seconds. If the auto search
only stored 5 stations, only these 5 will appear.
Skipped channels will not appear (see P.32).
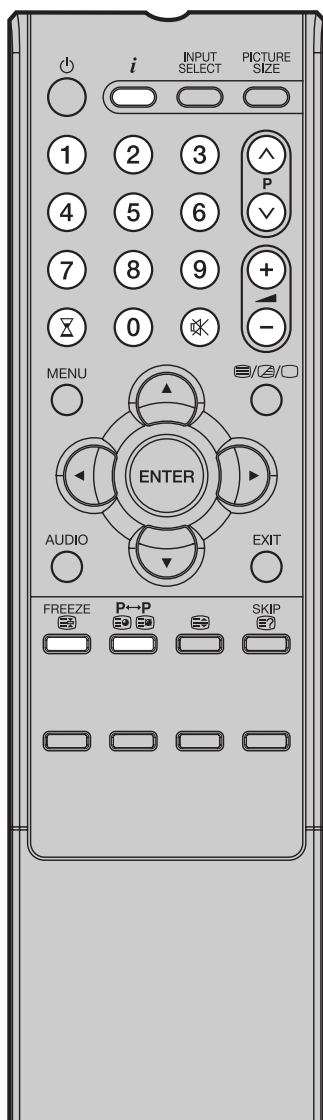
QuickView

P↔P button allows you to go back to the last selected
channel.

Volume adjusting

Press ◢ **+** or **–** to adjust the volume. The volume level
indicator disappears after 4 seconds.

MUTE

Press ⊠. The sound will be cut off. MUTE will appear for
approx. 4 seconds.
The muting can be released by pressing ⊠ again or ◢ **+** or **–**.

Information display

Press *i* once. Channel
number and wide screen
type will appear. (The
display will disappear after
4 seconds.)
During display above,
press *i* again. The screen
displays the clock and
program information if this is currently available.

```
STEREO
                          CH 1


AUTO
```
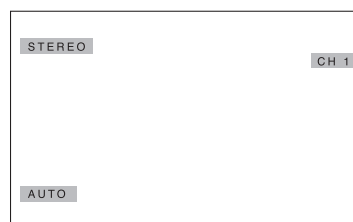
SLEEP TIMER

To set the sleep timer press
⧗. SLEEP and the minutes
until shut-off will appear.
Each time you press ⧗ the
SLEEP time shown will
change. When the
displayed time runs out, the
unit will switch to standby.
The display will disappear after approx. 4 seconds

```
                       SLEEP
                        120
```

To cancel the sleep timer:

Press ⧗ repeatedly until "0" appears.

Still picture

Press **FREEZE** to make a still picture. To cancel the still
picture, press **FREEZE** again.

Notes:
- When this function is not available, "NOT AVAILABLE" will
  appear.
- The still image automatically goes out after 30 minutes.

Note:
If the built-in tuner does not receive
anything (e.g. if no antenna is
connected) during TV-operation, then
the TV-unit will change to standby after
approx. 15 minutes.

17

Stereo reception with the built-in tuner

The built-in Tuner can detect and receive NICAM stereo broadcasts automatically.

NICAM stereo sound reception:

1 Select NICAM.
Press ◁ or ▷ to select AUTO or OFF.
Select OFF if you do not want to receive NICAM sound.

```
NICAM            AUTO/OFF
BASS                 25
TREBLE               25
BALANCE               0
SURROUND            OFF
SPEAKERS             ON
HDMI1              HDMI
HDMI2              HDMI
RESET               ▶

▲▼ : SELECT        ◀▶ : ADJUST
EXIT : END         MENU : RETURN
```
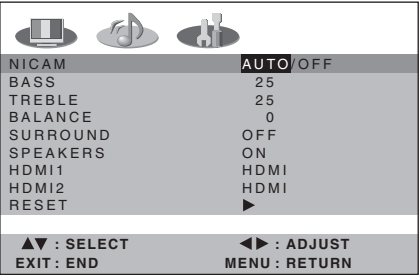
2 Press **EXIT** to return to the normal screen.

The following types of broadcast are possible with NICAM transmissions

"NICAM ST" illuminates for approx. 4 seconds when a NICAM STEREO broadcast signal is received.

NICAM ST

"NICAM M1" illuminates for approx. 4 seconds when a NICAM MONO A broadcast signal is received.

NICAM M1

"NICAM M1/M2" illuminates for approx. 4 seconds when a NICAM MONO A and MONO B broadcast signal is received.

NICAM M1 / M2

This will be displayed for approx. 4 seconds if a NICAM signal is received when the "NICAM OFF" option is selected.

NICAM OFF

Stereo reception in Germany

"STEREO" illuminates for approx. 4 seconds when a STEREO broadcast signal is received.

STEREO

Note:
In case of bad reception, the stereo sound also can be disturbed.

18

When 2-channel sound reception is available, you can select your preferred audio with the AUDIO button.

Each time you press **AUDIO**, the sound channel will switch to the alternative channel available.

NICAM 2-channel sound reception (not available in Germany)

```
NICAM M1/M2
```

⇅

```
NICAM M1/M2
```
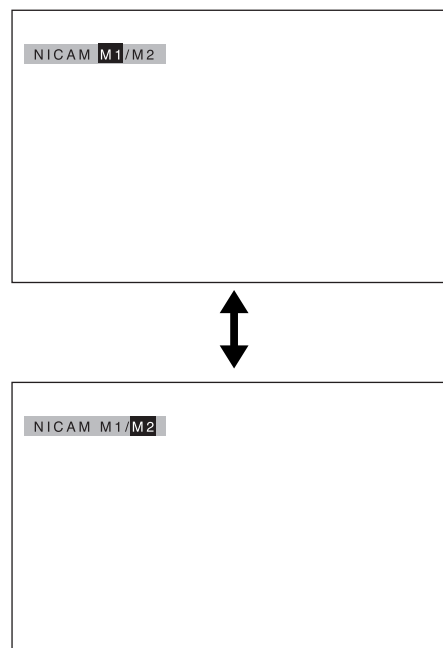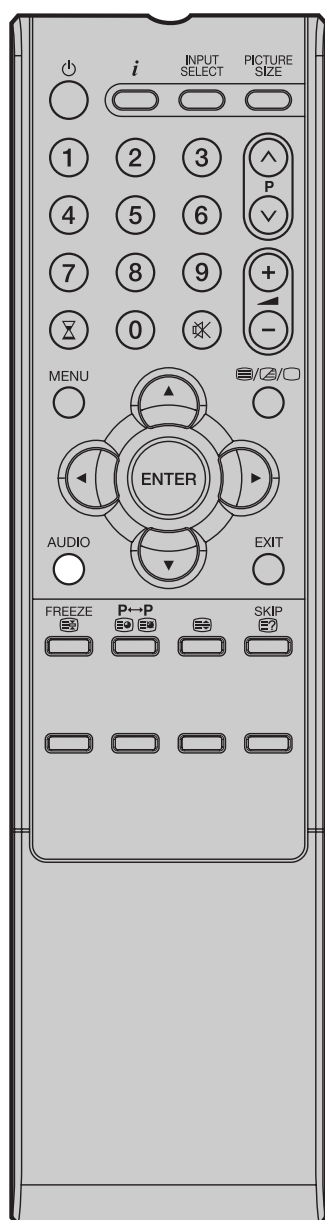
2-channel sound reception in Germany

```
SOUND 1 / 2
```

⇅

```
SOUND 1 / 2
```

19
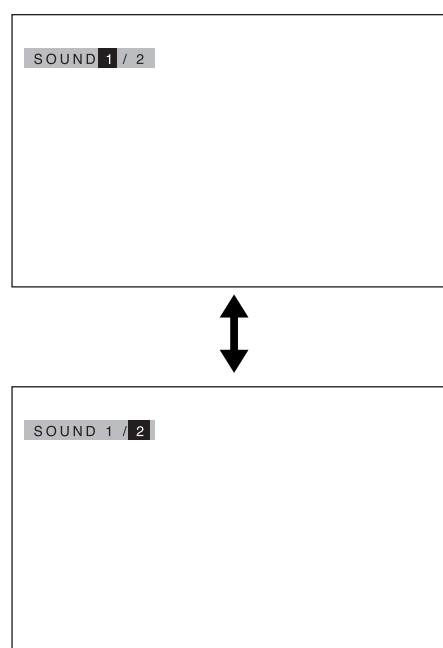
Bass, Treble and Balance

1 Select BASS. Then press ⬖ or ⬗ to adjust the bass.

```
┌─────────────────────────────────────┐
│  🖥    🎵    🛠                        │
│                                       │
│  NICAM              AUTO              │
│  BASS               25 ◁▭▭▭▭▭▭▭ ▷   │
│  TREBLE             25                │
│  BALANCE             0                │
│  SURROUND           OFF               │
│  SPEAKERS           ON                │
│  HDMI1              HDMI              │
│  HDMI2              HDMI              │
│  RESET              ▶                 │
│                                       │
│  ▲▼ : SELECT        ◀▶ : ADJUST      │
│  EXIT : END         MENU : RETURN     │
└─────────────────────────────────────┘
```
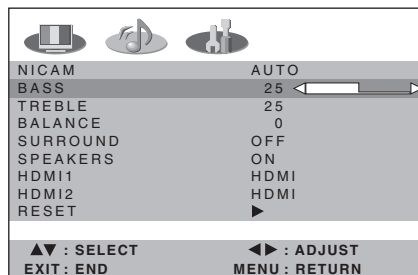
If you wish to set the treble or balance, press ⌢ or ⌣ to select TREBLE or BALANCE. You can then adjust these in the same way.

2 Press **EXIT** to return to the normal screen.
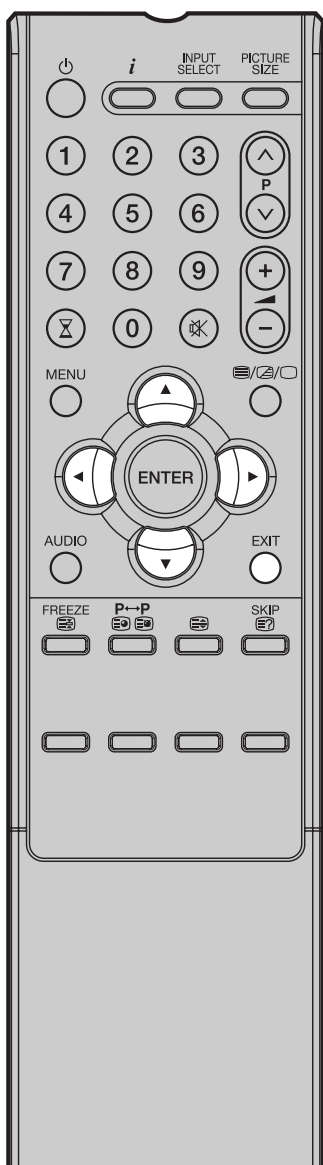
Notes:
- To reset BASS, TREBLE and BALANCE to the factory preset values, select RESET in step 1 then press ⬖ or ⬗.
- If you do not press any button within 1 minute, the menu will disappear automatically.

20

Using the surround sound feature

The SURROUND feature processes the audio signal to expand the listening field wider and deeper to create a 'pseudo surround-sound' from the TV's speakers. The feature works with stereo signals from aeTV broadcast or AV input.

1 Select SURROUND.
Then press ◁ or ▷ to select ON or OFF.

```
NICAM                    AUTO
BASS                      25
TREBLE                    25
BALANCE                    0
SURROUND                ON/OFF
SPEAKERS                  ON
HDMI1                    HDMI
HDMI2                    HDMI
RESET                     ▶

▲▼ : SELECT          ◀▶ : ADJUST
EXIT : END           MENU : RETURN
```
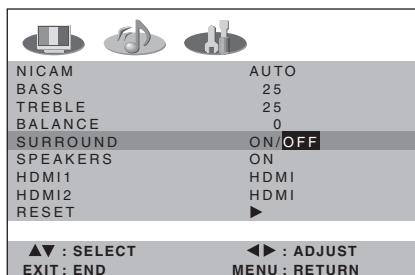
2 Press **EXIT** to return to the normal screen.

Turning off the built-in speakers

Use this feature to turn the TV speakers off when you connect an audio system (see P.34).

1 Select SPEAKERS.
Then press ◁ or ▷ to select OFF.

```
NICAM                    AUTO
BASS                      25
TREBLE                    25
BALANCE                    0
SURROUND                 OFF
SPEAKERS                ON/OFF
HDMI1                    HDMI
HDMI2                    HDMI
RESET                     ▶

▲▼ : SELECT          ◀▶ : ADJUST
EXIT : END           MENU : RETURN
```
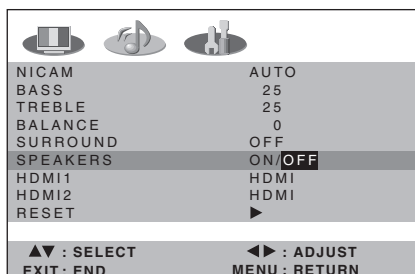
2 Press **EXIT** to return to the normal screen.

Notes:
• Make sure the volume control of your audio amplifier is set to a moderate listening level.
• The PHONE jack and other output sockets do not output the SURROUND audio - this can only be heard through the TV's own speakers.

21

Brightness, Contrast, Colour and Sharpness/DNR

Brightness, Contrast, Colour and Sharpness

1 Select BRIGHTNESS. Then press ◁ or ▷ to adjust the brightness.

```
BRIGHTNESS        25   ◁            ▷
CONTRAST          25
COLOUR            25
TINT               0
SHARPNESS         25
DNR              OFF

▼

▲▼ : SELECT          ◀▶ : ADJUST
EXIT : END           MENU : RETURN
```
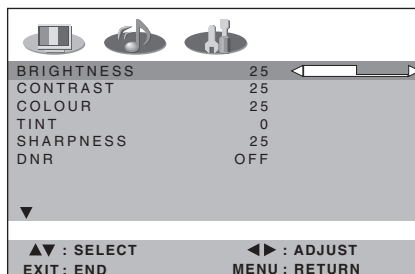
If you wish to set the contrast, colour, tint, or sharpness, press ⌢ or ⌣ to select CONTRAST, COLOUR, TINT, or SHARPNESS. These can all be adjusted in the same way.

The "TINT" option can be selected if an NTSC 3.58MHz signal is input through one of the AV sockets, and NTSC or AUTO has been selected for the AV COLOUR option (see P.36).

2 Press **EXIT** to return to the normal screen.

DNR

DNR (Digital Noise Reduction) can reduce the roughness of the picture.

1 Select DNR. Then press ◁ or ▷ to select ON or OFF.

```
BRIGHTNESS        25
CONTRAST          25
COLOUR            25
TINT               0
SHARPNESS         25
DNR           ON/OFF

▼

▲▼ : SELECT          ◀▶ : ADJUST
EXIT : END           MENU : RETURN
```
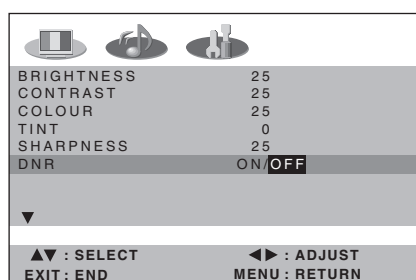
2 Press **EXIT** to return to the normal screen.

Notes:
- To reset BRIGHTNESS, CONTRAST, COLOUR, TINT and SHARPNESS to the factory preset values, select RESET in step 1 then press ◁ or ▷.
- In HDMI or COMPONENT mode, the "DNR" option cannot be selected.

22

You can use the Back light feature to adjust the screen brightness for improved picture clarity.

1 Select BACKLIGHT. Then press ⬅️ or ➡️ to adjust the level you require.

```
  ▲
AV2 INPUT            AV
AV2 OUTPUT          TV
AV COLOUR          AUTO

BACKLIGHT           16  ◁━━━━━━━▷


▲▼ : SELECT          ◀▶ : ADJUST
EXIT : END           MENU : RETURN
```

2 Press **EXIT** to return to the normal screen.

23
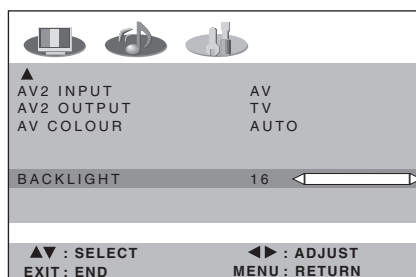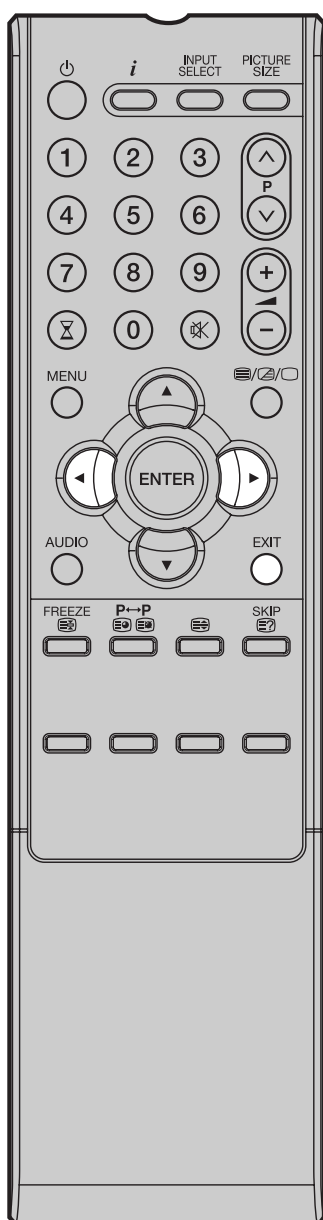
Selecting the colour temperature/Blue back

Selecting the colour temperature

Change the picture quality by selecting from three preset colour temperatures - cool, medium and warm - as described in the following table;

1 Select COLOUR TEMPERATURE.

```
┌─────────────────────────────────────┐
│  [📺]    [♫]    [🔧]                  │
│ ▲                                     │
│ COLOUR                                │
│ TEMPERATURE         MEDIUM            │
│              COOL/MEDIUM/WARM         │
│ BLUE BACK           ON                │
│ RESET               ▶                 │
│                                       │
│                                       │
│ ▲▼ : SELECT        ◀▶ : ADJUST       │
│ EXIT : END         MENU : RETURN      │
└─────────────────────────────────────┘
```
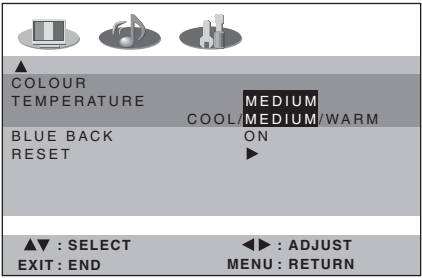
2 Press ◁ or ▷ to select the desired setting.

Mode	Picture Quality
COOL	Bluish
MEDIUM	Neutral
WARM	Reddish

3 Press **EXIT** to return to the normal screen.

Blue back

You can set the TV to automatically change to a blue screen and mute the sound if the signal is weak or absent, or when there is no input from an external device.

1 Select BLUE BACK.
Then press ◁ or ▷ to select ON or OFF.

```
┌─────────────────────────────────────┐
│  [📺]    [♫]    [🔧]                  │
│ ▲                                     │
│ COLOUR                                │
│ TEMPERATURE         MEDIUM            │
│                                       │
│ BLUE BACK           ON/OFF            │
│ RESET               ▶                 │
│                                       │
│                                       │
│ ▲▼ : SELECT        ◀▶ : ADJUST       │
│ EXIT : END         MENU : RETURN      │
└─────────────────────────────────────┘
```

2 Press **EXIT** to return to the normal screen.

24
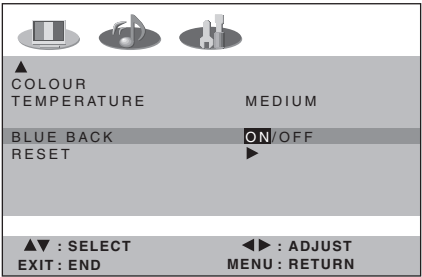
The broadcaster may transmit a Wide Screen Signalling (WSS) signal which can determine the correct picture width and set it automatically when the AUTO setting is used. If you want to change this setting, you can select from the formats listed below.

AUTO

Press **PICTURE SIZE** repeatedly until AUTO appears. See above Note.

Manual format setting

Pressing **PICTURE SIZE** repeatedly scrolls through the following options.

4:3
This mode shows a 4:3 picture in its original size and shape with vertical bands on the left and right side.

FULL SCREEN
Stretches the left and right hand sides of a 4:3 picture horizontally to fill the screen, while leaving the centre of the picture unstretched.

(FULL SCREEN)
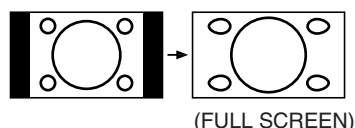
Note:
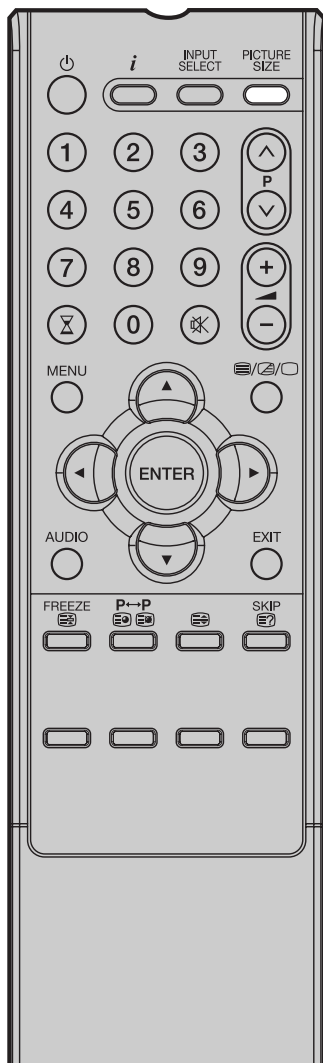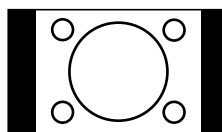In this mode the picture is geometrically distorted on the left and the right sides of the screen.

16:9
This mode is used with 16:9 signals from a Digital decoder, DVD player or other external source. This uniformly stretches a 4:3 image horizontally to fill the screen (For example, a 16:9 image is often stored "anamorphically" on a DVD, where the 16:9 image is stored as a horizontally compressed 4:3 image - this mode restores the image to its correct 16:9 proportions).

(16:9)
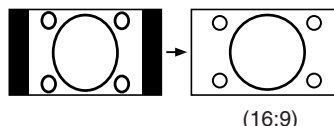
CINEMA:
This mode is used to zoom-in on (expand) 4:3 'letterbox' format pictures (with black bars at the top and bottom) so that they fill more of the screen.
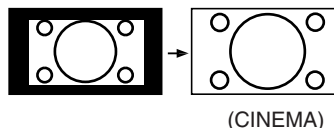
(CINEMA)

Note:
In the CINEMA mode, part of the picture may be slightly cut off due to the xpansion. However, it is possible to scroll the picture up or down to view the top or bottom part of the picture (see page 26).

14:9
This enlarges a 4:3 picture to the 14:9 format.

(14:9)
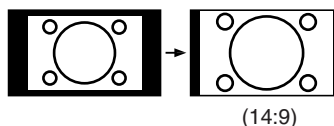
Notes:
• In PC mode, the PICTURE SIZE feature is available only for 16:9 or 4:3 format. (In "WXGA INPUT" and "WVGA INPUT" mode, the PICTURE SIZE feature is not available.)
• In HDMI or COMPONENT mode of scanning rate: 720p and 1080i, the PICTURE SIZE feature is not available.

25

Scrolling the picture in CINEMA mode/Auto 4:3 Default

Scrolling the picture in CINEMA mode

When the CINEMA mode is selected, you can adjust the vertical picture position.

Note:
You cannot move the picture vertically in any of the other picture modes.

1 Select VERTICAL POSITION. Then press [▷].

```
AUTO TUNING            ▶
MANUAL TUNING          ▶
CH ALLOCATION          ▶
TELETEXT LANGUAGE      WEST
LANGUAGE               ▶
VERTICAL POSITION
AUTO 4:3 DEFAULT       FULL
▼

▲▼ : SELECT          ◀▶ : ADJUST
EXIT : END           MENU : RETURN
```
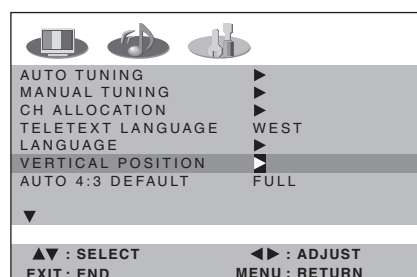
2 Press [⌢] or [⌣] to adjust the vertical position of the picture.
  • To raise the picture, press [⌢].

```
SCROLL ADJUSTMENT            +10

        ▲▼ : ADJUST
    ENTER : SET
```
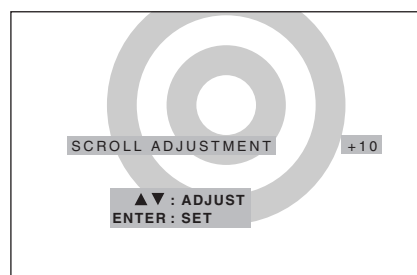
  • To lower the picture, press [⌣].

```
SCROLL ADJUSTMENT            −10

        ▲▼ : ADJUST
    ENTER : SET
```
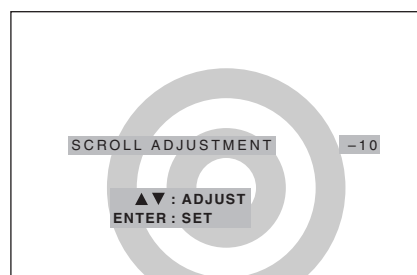
Note: You can adjust the vertical position upwards by up to +20 and downwards by up to -10.

3 Press **EXIT** to return to the normal screen.

Auto 4:3 Default

This option selects the default way that a 4:3 signal is shown - either as normal "4:3" or expanded in the "Full screen" mode, according to your preferences.

1 Select AUTO 4:3 DEFAULT. Then press [◁] or [▷] to select 4:3 or FULL.

```
AUTO TUNING            ▶
MANUAL TUNING          ▶
CH ALLOCATION          ▶
TELETEXT LANGUAGE      WEST
LANGUAGE               ▶
VERTICAL POSITION      ▶
AUTO 4:3 DEFAULT       4:3/FULL
▼

▲▼ : SELECT          ◀▶ : ADJUST
EXIT : END           MENU : RETURN
```

2 Press **EXIT** to return to the normal screen.

Note:
In COMPONENT mode,
AUTO 4:3 DEFAULT is available only for 480i/576i mode.
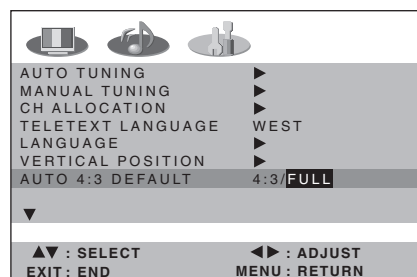
PC connection

As PCs are sometimes supplied with a 'conventional' CRT monitor, you may need to adjust the display settings of your PC's graphics card, otherwise the pictures may not appear correctly. Switch on your PC (still with your original monitor) - select '1360 x 768' for the screen resolution, and select 60 Hz for the on-screen refresh rate. Switch off your PC, then connect it to your LCD TV while both items are still switched off.

Use a PC-VGA cable (not supplied) to connect the LCD-Monitor to your PC. Make the connections carefully so as not to break or bend the contacts inside the plug.

TV (Left side view)

PC

VGA Cable (not supplied)

Audio cable (not supplied)
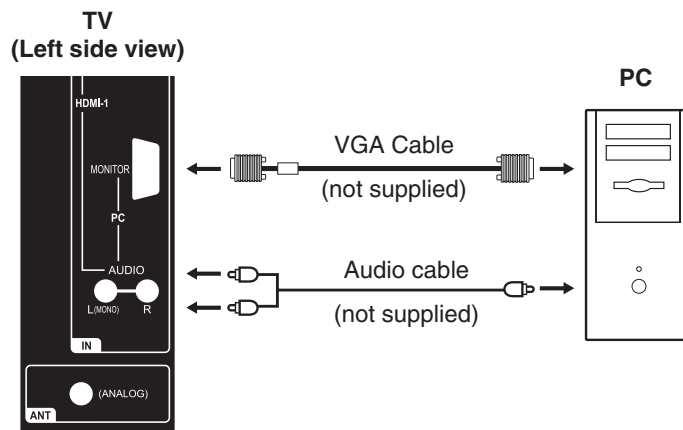
Select PC input

Switch on the LCD-TV.
Select the PC input mode (see page 11).

Note:
If there is no video signal from the computer when the unit is in PC mode, "NO SIGNAL" will appear on the TV screen for approx. 10 seconds.

Monitor Display modes

MODE	Resolution	Refresh rate
VGA	640x480	60Hz
VGA	720x400	70Hz
WVGA	848x480	60Hz
SVGA	800x600	60Hz
XGA	1024x768	60Hz
WXGA	1280x720/768	60Hz
WXGA	1360x768	60Hz

(according to Graphic card)

Note:
See next page for the PC Monitor Menu.
The PC Monitor Menu settings are not effective for normal TV mode or external input modes.

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PC connection

Example: Adjust the contrast.

1   During PC mode press **MENU** once. The Menu will appear on the screen.

```
┌──────────────────────────────────────┐
│   ▮▮      🎵                          │
│                                       │
│ BRIGHTNESS            25              │
│ CONTRAST              25              │
│ HOR POSITION          25              │
│ VER POSITION          25              │
│ PHASE                 25              │
│ CLOCK                  0              │
│                                       │
│ ▼                                     │
│                                       │
│ ▲▼ : SELECT        ◄► : ADJUST        │
│ EXIT : END         MENU : END         │
└──────────────────────────────────────┘
```
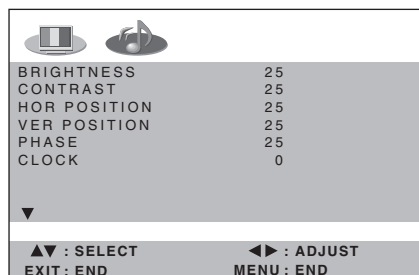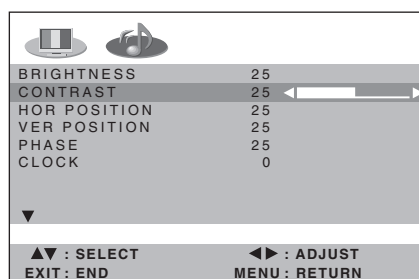
2   Press ⌃ or ⌄ to select CONTRAST. Then press ◁ or ▷ to adjust CONTRAST.

```
┌──────────────────────────────────────┐
│   ▮▮      🎵                          │
│                                       │
│ BRIGHTNESS            25              │
│ CONTRAST              25  ◄▭▭▭▭▭▭▭►    │
│ HOR POSITION          25              │
│ VER POSITION          25              │
│ PHASE                 25              │
│ CLOCK                  0              │
│                                       │
│ ▼                                     │
│                                       │
│ ▲▼ : SELECT        ◄► : ADJUST        │
│ EXIT : END         MENU : RETURN      │
└──────────────────────────────────────┘
```

3   Press **EXIT** to return to the normal screen.

Description about the each setting option:

PICTURE Menu ▮▮

BRIGHTNESS and CONTRAST: You can adjust these according to to your presonal preferences.
HOR POSITION and VER POSITION: to adjust the horizontal and vertical placing of the image.
PHASE and CLOCK: eliminates the horizontal (PHASE) and vertical (CLOCK) interfering lines.
RED/GREEN/BLUE: influences the colour balance.
WXGA INPUT: When you input an WXGA signal, set this option to "ON".
WVGA INPUT: When you input an WVGA signal, set this option to "ON".
RESET: Press ◁ or ▷ to reset BRIGHTNESS, CONTRAST, RED, GREEN and BLUE to the factory preset values.

AUDIO Menu 🎵

BASS/TREBLE/BALANCE: Tone setting menu.
SURROUND: Press ◁ or ▷ to select surround sound feature ON or OFF (see P. 21).
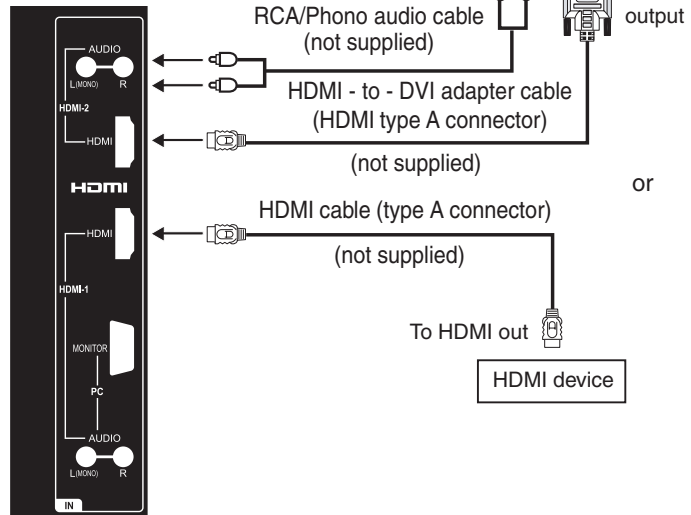**SPEAKERS:** Press ◁ or ▷ to select SPEAKERS ON or OFF (see P. 21).
RESET: Press ◁ or ▷ to reset BASS, TREBLE and BALANCE to the factory preset values.

28

Connecting an HDMI or a DVI device to the HDMI input

The HDMI input receives digital audio and uncompressed video from a HDMI equipped device or uncompressed digital video from a DVI equipped device.
When you connect to a DVI device with a HDMI-to-DVI adapter cable, it only transfers the video signal, so it is necessary to use separate analogue leads (RCA/Phono type) to transfer the audio signals.
Select the HDMI1 or HDMI2 input mode (see P.11).

**TV
(Left side view)**

DVI device

RCA/Phono audio cable
(not supplied)

To DVI
output

HDMI - to - DVI adapter cable
(HDMI type A connector)

(not supplied)

or

HDMI cable (type A connector)

(not supplied)

To HDMI out

HDMI device

Notes:
- As well as HDMI2, you can also use HDMI-1 IN to connect to DVI equipped device - in this case, you must connect the audio cables to the HDMI-1 AUDIO/PC AUDIO (LR) IN jacks.
- This set is classed as "HD-Ready". This means that it is capable of displaying HD (High Definition) signals when connected to a suitable HD source, such as an HD receiver or DVD player that has HD capability, via HDMI, DVI, or Component Video connections.

HDMI

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

Selecting the HDMI audio input source

You must choose the appropriate HDMI audio input setting for each connection, depending on whether the source is equipped with a DVI or HDMI socket.

1 Select HDMI1 or HDMI2.
Press ◁ or ▷ to select HDMI or DVI.

```
NICAM                    AUTO
BASS                     25
TREBLE                   25
BALANCE                  0
SURROUND                 OFF
SPEAKERS                 ON
HDMI1                    HDMI /DVI
HDMI2                    HDMI
RESET                    ▶

▲▼ : SELECT           ◀▶ : ADJUST
EXIT : END            MENU : RETURN
```
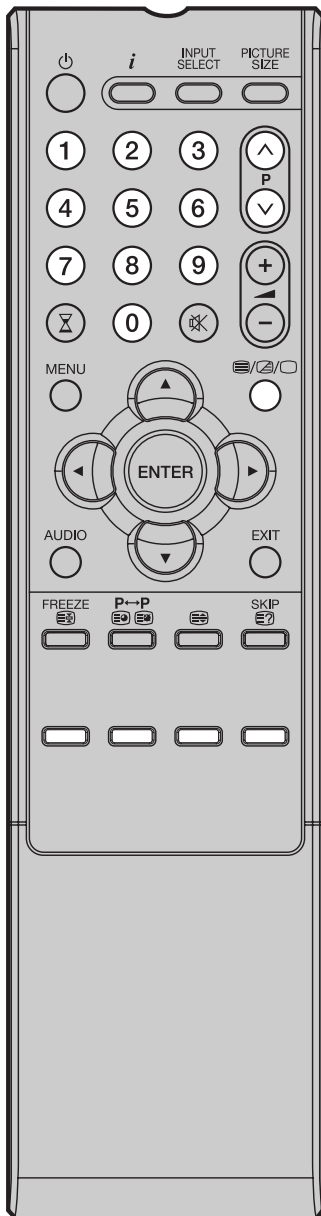
2 Press **EXIT** to return to the normal screen.

29

Teletext

Teletext is sent page by page. This unit is able to automatically store up to 812 pages, but they can only be accessed once they have been stored. This can take a few moments.

Fastext/TOPtext

The Fastext/TOPtext is teletext with a special directory.
On the lower part of the screen there are four different coloured fields (red, green, yellow and blue). These fields lead directly to the pages shown within. The coloured buttons on the remote control correspond to the coloured fields. Press the appropriate coloured button in order to activate the desired colour field.

Switch on / off Teletext

Teletext is not transmitted by all channels.
Select a channel that shows teletext.
Press ▤/▨/▢. You will now see a teletext page. (If "100" is shown without any text information, it may mean that the channel you have selected does not support teletext.)
Press ▤/▨/▢ again. Teletext and TV picture are shown simultaneously.
Press ▤/▨/▢ again in order to switch off teletext.
Press ▤/▨/▢ again in order to switch on teletext again. The last page which was stored is now shown.
Note:
You cannot select any other channels as long as teletext is switched on. Switch teletext off when you want to switch over to another channel.

Select Page

Press **P** ∧ or ∨ until the page you desire appears. Or ... enter the requested page number by using the **10 Number Buttons**. And if you mistype something, just enter the complete 3-digit wrong page number then enter the desired number again. Or ... press one of the coloured teletext buttons so that a page from Fastext/TOPtext is shown.

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Hold Pages
Some pages are divided up into subpages by the channel. Subpages are automatically shown in turn, as they are transmitted. In order to hold the page, press ▣. Press ▣ again in order to display the next subpage.

Directly Select Subpages
You can directly select the subpages if required.
Example:
Page 667 from ARD (German teletext) comprises of 2 subpages. In the right upper corner you will, for example, see 1/2. That means that page one of 2 subpages is being shown at the moment.

| 667 667 ARD-Text 21.07.03   15:01:38 |
| 1/2 |
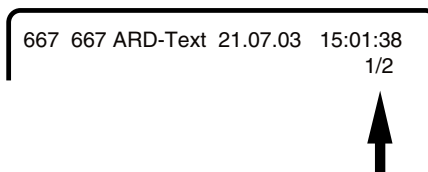
Press ▣▣ in order to select subpage 2. 4 dashes (----) are shown. Enter **0 0 0 2**. It can take a minute before subpage 0002 appears.
Press ▣▣ again in order to switch off the subpage feature. You can only select other teletext pages when the subpage feature is switched off.
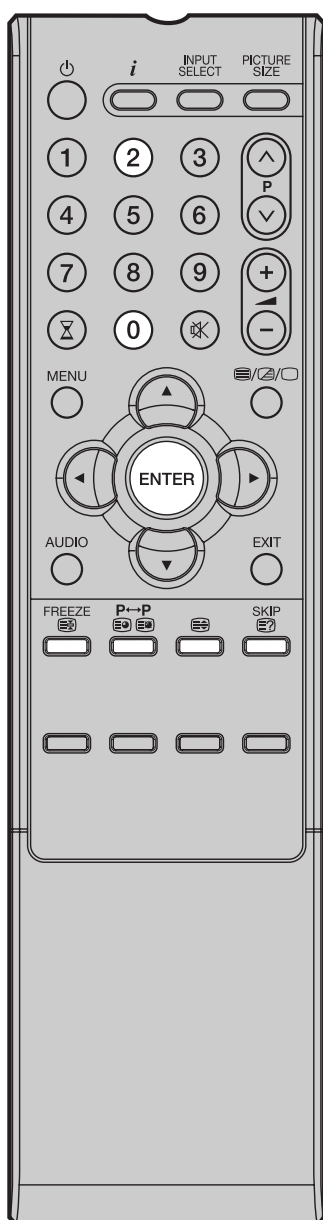
Enlargement
In order to enlarge the display, press ▣.
Either the upper or lower half of the screen is enlarged.
Each time you press ▣ you switch between the display of the upper or lower half of the screen or the full picture.

Answering Quiz Questions
Some pages contain quiz questions with concealed answers. Press ▣ in order to show the answers.

Page 100
Press **ENTER** in order to show page 100.

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Conceal stored channels

The channels stored in the memory can be selected using **P** ∧ or ∨. If you want to skip certain channels from the sequence, you can conceal them. These channels are not deleted - they can be accessed at any time with the **numbered buttons**.

1 Select the channel to be concealed (i.e. CH29).
Press **SKIP**.
The programme number flashes.

CH 29

2 Select the next channel to be concealed.
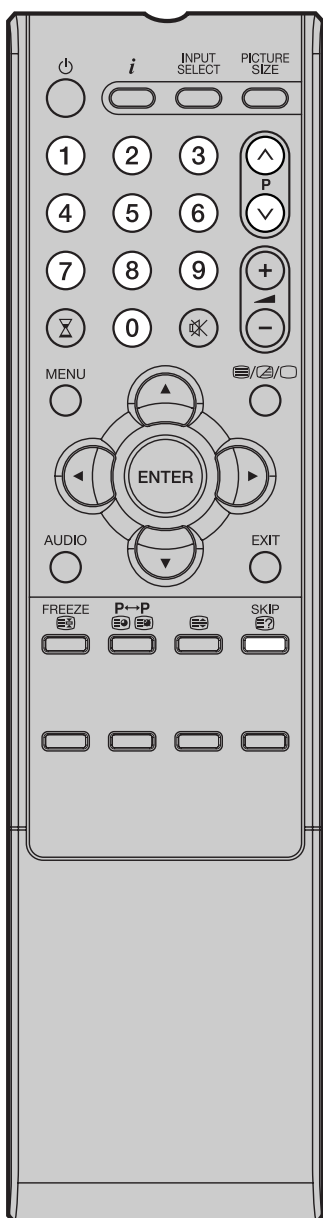Press **SKIP**.
The programme number flashes.

You can conceal as many channels as you like.

Example:
5 channels are automatically stored via the automatic channel storage feature. When you keep pressing **P** ∧ (the channels will appear in the following order: 1, 2, 3, 4, 5, 1, 2, 3, 4, 5, 1, ... etc. If you conceal programme positions 3 and 5, the sequence is now 1, 2, 4, 1, 2, 4, 1, ... etc.)

Restoring a Concealed Channel
You can restore a channel that has been concealed using the following process: Type in the number of the channel that you wish to restore using the **numbered buttons** - the number will flash on the screen. Then press the **SKIP** button - the channel number will stop flashing, which indicates that it is now restored.
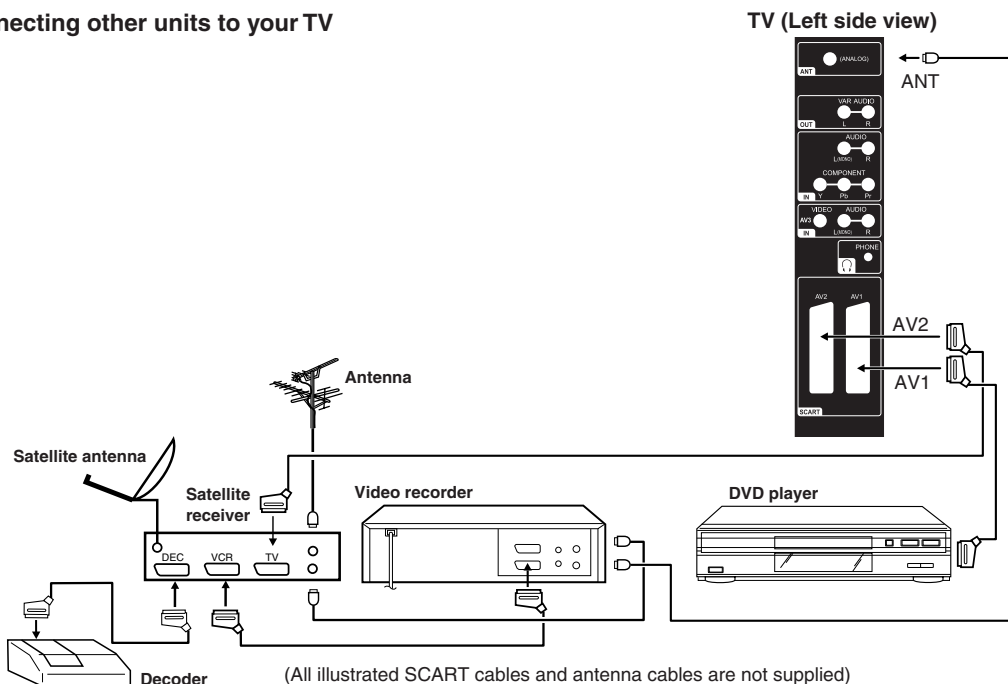
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Connection to other equipment

1. Connecting other units to your TV

TV (Left side view)

ANT

AV2

AV1

Antenna

Satellite antenna

Satellite receiver

Video recorder

DVD player

DEC   VCR   TV

Decoder

(All illustrated SCART cables and antenna cables are not supplied)

DVD player:

For to ensure optimum picture quality, select RGB for the DVD player's output signal (see Owner's manual of the DVD player).   Always connect the DVD player to the AV1 SCART, as this socket is compatible with RGB signals.Select the AV1 input mode to view (see P.11).

Notes:

• S-Video signals can be played back through the AV2 SCART socket. If the source product has an S-Video socket instead of a SCART output, you can use an S-Video-to-SCART-Adaptor (not supplied).

• Using RGB signals provides the best possible picture quality through SCART connections. Please note that where RGB signals are used, the colour and sharpness cannot be adjusted.
  Example: If you make an adjustment to the colour as explained on P.22, the colour level indicated on the menu actually changes, but the displayed colour strength remains the same until a non-RGB input is selected.

2. Connecting two video recorders (e.g. to duplicate a video tape)

TV (Left side view)

Video recorder 1 to AV1
Playback

Video recorder 2 to AV2
Recording
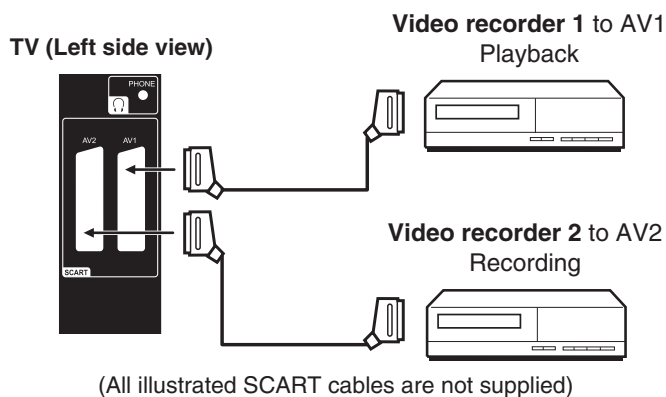
Select the "MONITOR" option in the SETUP menu (see P.35 No.6 (2)).
Select the AV1 input mode (see P.11).
You can see the playback picture from video recorder 1.
This signal is output via AV2 and can be recorded by video recorder 2.
With this arrangement, Video recorder 2 will record exactly what is shown on the screen.

(All illustrated SCART cables are not supplied)

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Connection to other equipment
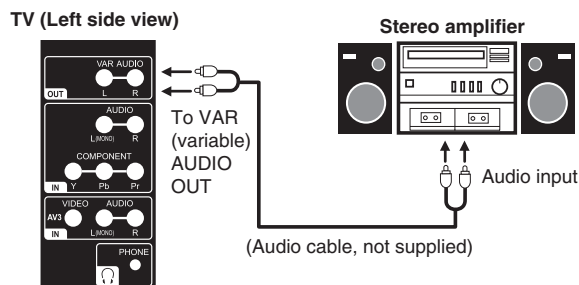
3. Connecting an audio system

This connection allows you to hear the TV sound through external speakers connected to an audio amplifier.

To control the audio through the amplifier turn on the TV and the amplifier set the volume of both to a moderate level, and turn off the TV's built-in speakers (see "Turning off the built-in speakers" on page 21). Use a set of RCA/Phono cables to connect the TV to a suitable input on your hi-fi system as shown below.

Note:
If the volume of either the TV or the amplifier is set to 0 (or OFF), you will not hear any sound.

Note: The Bass/Treble/Balance adjustments (see P.20) only function with the sound from the TV speakers - it does not affect the audio output sockets.

TV (Left side view)

Stereo amplifier

To VAR (variable) AUDIO OUT

Audio input

(Audio cable, not supplied)

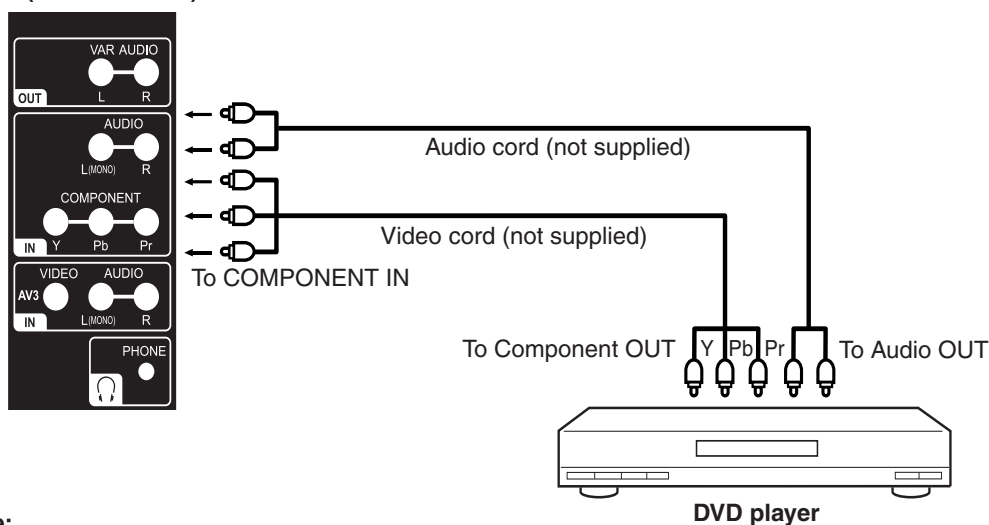**4. Connecting a Video camera or Games console**

Connect the Video camera (or Games console, etc.) to the TV with an appropriate AV cable (RCA/Phono) as shown. Select the AV3 input mode to view (see P.11).

TV (Left side view)

Video camera (example)

AV output

(AV cable, not supplied)

To AV3 IN
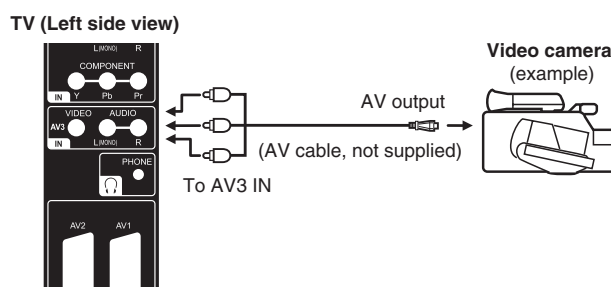
5. Connecting to a DVD player or other AV device with Component Video outputs

If your DVD player (or other device) has Component Video output jacks, use a suitable set of leads (RCA/Phono) to connect these to the Component Video inputs on this TV as shown - it can greatly enhance the picture quality and performance. Please remember that you will also need to connect separate leads (RCA/Phono) for the audio signals. Select the COMPONENT input mode (see P.11).

TV (Left side view)

Audio cord (not supplied)

Video cord (not supplied)

To COMPONENT IN

To Component OUT   Y Pb Pr   To Audio OUT

DVD player

Note:
The Component Video input of this unit are for use with equipment which outputs interlaced signals (PAL: 576i/1080i or NTSC: 480i/1080i) and progressive signals (PAL: 576p/720p or NTSC: 480p/720p).
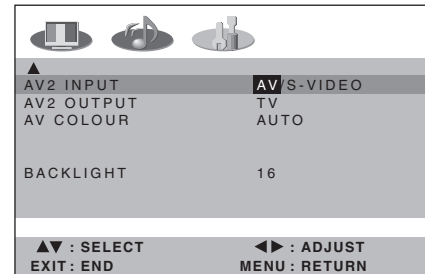
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Connection to other equipment

6. Setting of Scart socket AV2

1 In ⚙ , select AV2 INPUT or AV2 OUTPUT.

2 **Selecting the "AV2 INPUT" type - this ensures that the TV processes the input signal correctly.**

Press ◁ or ▷ to select AV or S-VIDEO.

AV:	Composite signal (e.g. from a video recorder).
S-VIDEO:	S-Video signal (e.g. from DVD player with S-Video output).

```
▲
AV2 INPUT              [AV] S-VIDEO
AV2 OUTPUT             TV
AV COLOUR              AUTO

BACKLIGHT              16


▲▼ : SELECT           ◀▶ : ADJUST
EXIT : END            MENU : RETURN
```
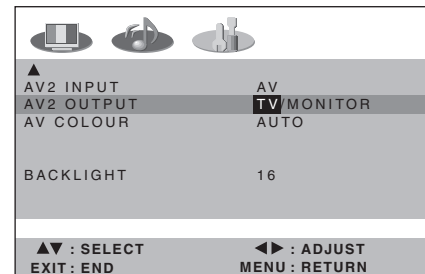
Selecting the "AV2 OUTPUT" option - this determines whether the AV2 outputs the signal from the internal tuner or whatever input is shown on the screen.

Press ◁ or ▷ to select TV or MONITOR.

TV:	Outputs the last channel position selected.
MONITOR:	The picture displayed on TV-screen.

Note:
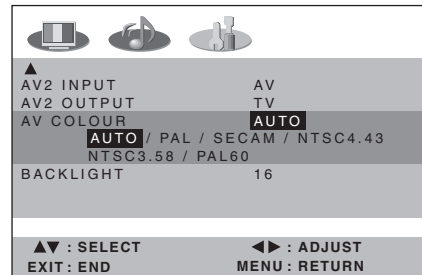The TV-output over AV-2 causes MONO-sound, if you use HDMI-input.

```
▲
AV2 INPUT              AV
AV2 OUTPUT            [TV] MONITOR
AV COLOUR             AUTO

BACKLIGHT             16


▲▼ : SELECT          ◀▶ : ADJUST
EXIT : END           MENU : RETURN
```
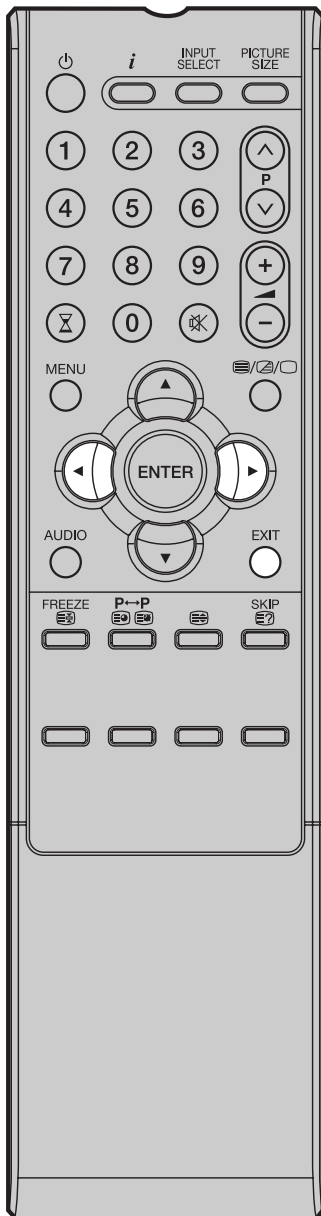
3 Press **EXIT** to return to the normal screen.

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AV colour adjustment

The AV Colour setting only applies when viewing devices connected to the AV inputs.

1 In 🔧 menu, select AV COLOUR.

2 Press ◁ or ▷ to select AUTO.

```
▲
AV2 INPUT                AV
AV2 OUTPUT               TV
AV COLOUR                AUTO
     AUTO / PAL / SECAM / NTSC4.43
     NTSC3.58 / PAL60
BACKLIGHT                16


▲▼ : SELECT          ◀▶ : ADJUST
EXIT : END           MENU : RETURN
```

3 If AUTO option does not work, press ◁ or ▷ to select desired colour (e.g. NTSC 3.58).

4 Press **EXIT** to return to the normal screen.

Note:
PAL is the colour system used in Germany. NTSC 3.58 is used in the USA, PAL 60 used in Germany handled video recorders, which play NTSC video tape recording.

DVD players that play NTSC DVDs (ie.multi-region/region code-free), can produce different signals according to each particular model - the following signals may be output from the player: PAL, SECAM, NTSC 3.58, NTSC4.43 and PAL60. If possible select RGB on the DVD player as the output signal instead of any of these types, and connect the DVD player to TV with a SCART cable.

Troubleshooting table/Specifications

Troubleshooting table

Please check the following list before requesting service.

Symptom	Possible solution	Page
No picture, no sound	Switch on the set. Check that the mains power outlet is properly connected. Select appropriate input mode.	10 11, 27, 33~35
No reception	Have you tuned in the TV stations? Press **1** on the remote control. Connect the antenna. Make sure the set is ON and not in Standby mode	 10 10
The TV switches off with missing antenna input signal	This is normal. 15 minutes after the antenna signal has disappeared, the set will change to standby mode.	17
In ![icon] menu, the TUNING option cannot be selected.	The unit is set to AV mode. Press **1** on the remote control.	13
Wrong Colours	Colour and Brightness errors can occur when the viewing angle / ambient air temperature (see technical specifications) are exceeded.	

Specifications

Model	TV-32082	TV-37094
System	PAL B/G, D/K, I/I, SECAM L Colour System	
Frequency Range	PAL: 2-12, X, Y, Z, S1-S41, 21-69 SECAM: FB-FC, F1-F6, B-Q, 21-69	
Power Supply	AC 230V, 50Hz	
Power Consumption: Operation:	approx. 170W	approx. 175W
Stand by:	approx. 1W	
LCD	31.5" TYPE (80.04 cm visible)	37.02" TYPE (94.03 cm visible)
	TFT low-glass Active Matrix Colour LCD, 1366 x 768 Pixel	

HDMI input	HDMI compliant (type A connector), HDCP compliant
	Suggested scan rates: PAL: 576i/576p/720p/1080i
	                       NTSC: 480i/480p/720p/1080i
	HDMI Audio: 2-channel PCM, 32/44.1/48 kHz sampling frequency
	              16/20/24 bits per sample	

Output Power	10W (MAX) x 2	
Surrounding temperature	Operation: 5°C ~ 40°C Storage: −20°C ~ 60°C	
Operating Humidity	Less than 80%RH	
Dimensions	82.2(W) x 60.4(H) x 33.3(D) cm	94.9(W) x 69.5(H) x 33.3(D) cm
Weight (w/o Accessories)	approx. 19 kg	approx. 24 kg
Accessories	2 batteries (AA/R6/UM-3) Remote control unit AC cord	

Weight and dimensions are approximate. Because we continually strive to improve our products we may change specifications and designs without prior notice.

J3Z70146B SH 06/11 Ⓝ