LCD
Digital Colour TV
Operating Instructions

Start-up Guide
i-MANUAL
Additional Information

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For useful information about Sony products
http://www.sony-europe.com/myproduct/

http://www.sony.net/
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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 with the same rating of 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 the same rating of fuse, otherwise the circuit should be protected by a 10 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. Please refer to the illustration that actually equipped with the product.

Introduction

Thank you for choosing this Sony product. Before operating the TV, please read this manual thoroughly and retain it for future reference.

Notice for Digital TV function

• Any functions related to Digital TV ( ) will only work in countries/areas where DVB-T (MPEG-2 and H.264/ MPEG-4 AVC) digital terrestrial signals are broadcast or where you have access to a compatible DVB-C (MPEG-2 and H.264/MPEG-4 AVC) cable service. Please confirm with your local dealer if you can receive a DVB-T signal where you live or ask your cable provider if their DVB-C cable service is suitable for integrated operation with this TV.
• Your cable provider may charge a fee for their services, or require you to agree to its terms and conditions of business.
• This TV set complies with DVB-T and DVB-C specifications, but compatibility with future DVB-T digital terrestrial and DVB-C digital cable broadcasts are not guaranteed.

Some Digital TV functions may not be available in some countries/areas and DVB-C cable may not operate correctly with some providers.

For a list of compatible cable providers, refer to the support web site:
http://support.sony-europe.com/TV/DVBC/

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• “BRAVIA” and BRAVIA are trademarks of Sony Corporation.
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About the model name in this manual

The “xx” that appears on the model name, corresponds to two numeric digits related to design or colour variation.
• The illustrations used in this manual are of the KDL-32EX402 unless otherwise stated.

Location of the identification label

Labels for Model No. and Power Supply rating (in accordance with applicable safety regulation) are located on the rear of the TV.
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## i-MANUAL

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- Before operating the TV, please read “Safety Information” 9. Retain this manual for future reference.
- Full operating instructions can be found on the screen.
- Instructions about “Installing Wall Mount Bracket” are included within this TV’s instructions manual.
1: Checking the accessories

Mains lead (1) (only for KDL-46EX4xx)
Cable holder (1) (only for KDL-40/32NX5xx)
Stand (1)*
Screws for stand (4) (only for KDL-46EX4xx)
Screws for stand (4 + 4) (only for KDL-40/32EX6xx, KDL-40/32NX5xx)
Remote RM-ED022 (1)
Remote RM-ED036 (1) (only for KDL-40/32EX6xx)
Size AAA batteries (2)

* Disassembled except for KDL-46EX4xx.

To insert batteries into the remote

3 Fix the TV to the stand according to the arrow marks that guide the screw holes using the supplied screws.

- Observe the correct polarity when inserting batteries.
- Do not use different types of batteries together or mix old and new batteries.
- Dispose of batteries in an environmentally friendly way. Certain regions may regulate disposal of batteries. Please consult your local authority.
- Handle the remote with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote in a location near a heat source, a place subject to direct sunlight, or a damp room.

2: Attaching the stand

Follow the assembling steps required to place on a TV stand.

1 Refer to the supplied Table-Top Stand leaflet for proper attachment for some TV models.

2 Place the TV set on the stand. Take care not to interfere with cables.

- If using an electric screwdriver, set the tightening torque at approximately 1.5 N·m (15 kgf·cm).
3: Connecting an aerial/cable/VCR/DVD recorder

Connecting an aerial/cable only

- AV1 outputs available only for analogue TV.
- AV2 outputs to the current screen (except PC, HDMI, Component, USB).

Connecting an aerial/cable/VCR/DVD recorder with SCART

4: Preventing the TV from toppling over

1. Install a wood screw (4 mm in diameter, not supplied) in the TV stand.
2 Install a machine screw (M4 × 16, not supplied) into the screw hole of the TV.
3 Tie the wood screw and the machine screw with a strong cord.

- An optional Sony support belt kit is used to secure the TV. Contact your nearest Sony Service Centre to purchase a kit. Have your TV model name ready for reference.

5: Bundling the cables
(only for KDL-40/32NX5xx)
You can bundle the connecting cables as illustrated below.

- Do not bundle the mains lead with other connecting cables.

6: Selecting the language, country/region and location

1 Connect the TV to your mains socket (220-240V AC, 50Hz).
2 Press \( \uparrow \) on the side of the TV.
   When you turn on the TV for the first time, the Language menu appears on the screen.

   - When you turn on the TV, the power indicator light up in green.
3 Press \( \uparrow / \downarrow \) to select the language displayed on the menu screens, then press \( \uparrow \).
4 Press ◀/▶ to select the country/region in which you will operate the TV, then press ◤.

If the country/region which you want to use on the TV does not appear in the list, select “-” instead of a country/region.

5 Press ◀/▶ to select the location type in which you will operate the TV, then press ◤.

In Shop mode, some settings will be periodically reset for Shop usage.

This option selects the initial picture mode appropriate for the typical lighting condition in these environments.

7: Auto-tuning the TV

1 Press ◤.

2 Press ◀/▶ to select “Antenna” or “Cable”, then press ◤.

If you select “Cable”, the screen for selecting the scan type appears. See “To tune the TV for Cable connection” (page 7).

The TV starts searching for all available digital channels. This may take some time, so do not press any buttons on the TV or remote while proceeding.

If a message appears for you to confirm the aerial connection

No digital or analogue channels were found. Check all the aerial/cable connections and press ◤ to start auto-tuning again.

3 Programme Sorting (Only in analogue mode): Changes the order in which the analogue channels are stored on the TV.

1 Press ◀/▶ to select the channel you want to move to a new position, then press ◤.

2 Press ◀/▶ to select the new position for your channel, then press ◤.

If you do not change the order in which the analogue channels are stored on the TV, press HOME to go to next step.

• This step will not appear if any analogue channel is found.

The message “Set-up complete” will appear on the screen. Press ◤.

The TV has now tuned in all the available channels.

• System Update

You can update the TV system using USB memory. Obtain information from the website below.

http://support.sony-europe.com/TV/

To tune the TV for Cable connection

1 Press ◤.

2 Press ◀/▶ to select “Quick Scan” or “Full Scan”, then press ◤.

“Quick Scan” : channels are tuned according to the cable operator information within the broadcast signal. Recommended setting for “Frequency” and “Network ID” is “Auto”.

This option is recommended for fast tuning when supported by your cable operator. If the “Quick Scan” does not tune, please use the “Full Scan” method below.

“Full Scan” : All available channels are tuned and stored. This procedure may take some time. This option is recommended when “Quick Scan” is not supported by your cable provider. For further information about supported cable providers, refer to support web site:

http://support.sony-europe.com/TV/DVBC

3 Press ◀/▶/◢ to select “Start”.

The TV starts searching for channels. Do not press any buttons on the TV or remote.

• Some cable providers do not support “Quick Scan”. If no channels are detected using “Quick Scan”, perform “Full Scan”.

7 GB
Adjusting the viewing angle of the TV

This TV can be adjusted within the angles shown below.

(only for KDL-40/32NX5xx)

Adjust the angle left and right (swivel)

Top view

20°

20°

(only for KDL-22EX3xx)

Adjust the tilt

0°

8°

Detaching the Table-Top Stand from the TV

- Do not remove the Table-Top Stand for any reason other than to wall-mount the TV.

(only for KDL-22EX3xx)

- Be sure the TV is on the vertical position before switching on. TV set must not be powered on with LCD panel face down to avoid uneven picture uniformity.
Safety Information

Installation/Set-up
Install and use the TV set in accordance with the instructions below in order to avoid any risk of fire, electrical shock or damage and/or injuries.

Installation
- The TV set should be installed near an easily accessible mains socket.
- Place the TV set on a stable, level surface.
- Only qualified service personnel should carry out wall installations.
- For safety reasons, it is strongly recommended that you use Sony accessories, including:
  - Wall-mount bracket SU-WL500 (KDL-40EX4xx, KDL-46EX4xx, KDL-55EX4xx)
  - Wall-mount bracket SU-WL100 (KDL-32EX3xx)
- Be sure to use the screws supplied with the model.
- The supplied screws are designed so that they are 8 mm to 12 mm in length when measured from the attaching surface of the mounting hook.
- Use of screws other than those supplied may result in internal damage to the TV set or cause it to fall, etc.

Transporting
- Before transporting the TV set, disconnect all cables.
- Two or three people are needed to transport a large TV set.
- When transporting the TV set by hand, hold it as shown on the right. Do not put stress on the LCD panel.
- When lifting or moving the TV set, hold it firmly from the bottom.
- When transporting the TV set, do not subject it to jolts or excessive vibration.
- When transporting the TV set for repairs or when moving, pack it using the original carton and packing material.

Ventilation
- Never cover the ventilation holes or insert anything in the cabinet.
- Leave space around the TV set as shown below.
- It is strongly recommended that you use a Sony wall-mount bracket in order to provide adequate air-circulation.

Installed on the wall

![Diagram of wall mounting](image)

- To ensure proper ventilation and prevent the collection of dirt or dust:
  - Do not lay the TV set flat, install upside down, backwards, or sideways.
  - Do not place the TV set on a shelf, rug, bed or in a closet.
  - Do not cover the TV set with a cloth, such as curtains, or items such as newspapers, etc.
  - Do not install the TV set as shown below.

Installed with stand

![Diagram of stand mounting](image)

Mains lead
Handle the mains lead and socket as follows in order to avoid any risk of fire, electrical shock or damage and/or injuries:
- Use only mains leads supplied by Sony, not other suppliers.
- Insert the plug fully into the mains socket.
- Operate the TV set on a 220-240 V AC supply only.
- When wiring cables, be sure to unplug the mains lead for your safety and take care not to catch your feet on the cables.
- Disconnect the mains lead from the mains socket before working on or moving the TV set.
- Keep the mains lead away from heat sources.
- Unplug the mains plug and clean it regularly. If the plug is covered with dust and it picks up moisture, its insulation may deteriorate, which could result in a fire.

Notes
- Do not use the supplied mains lead on any other equipment.
- Do not pinch, bend, or twist the mains lead excessively. The core conductors may be exposed or broken.
- Do not modify the mains lead.
- Do not put anything heavy on the mains lead.
- Do not pull on the mains lead itself when disconnecting the mains lead.
- Do not connect too many appliances to the same mains socket.
- Do not use a poor fitting mains socket.

Prohibited Usage
Do not install/use the TV set in locations, environments or situations such as those listed below, or the TV set may malfunction and cause a fire, electrical shock, damage and/or injuries.

Location:
- Outdoors (in direct sunlight), at the seashore, on a ship or other vessel, inside a vehicle, in medical institutions, unstable locations, near water, rain, moisture or smoke.

Environment:
- To prevent the spread of fire, keep candles or other open flames away from this product at all time.
- Places that are hot, humid, or excessively dusty; where insects may enter; where it might be exposed to mechanical vibration, near flammable objects (candles, etc). The TV set shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the TV.

Situations:
- Do not use when your hands are wet, with the cabinet removed, or with attachments not recommended by the manufacturer. Disconnect the TV set from mains socket and aerial during lightning storms.

Broken pieces:
- Do not throw anything at the TV set. The screen glass may break by the impact and cause serious injury.
- If the surface of the TV set cracks, do not touch it until you have unplugged the mains lead. Otherwise electric shock may result.

When not in use
- If you will not be using the TV set for several days, the TV set should be disconnected from the mains for environmental and safety reasons.
- As the TV set is not disconnected from the mains when the TV set is just turned off, pull the plug from the mains to disconnect the TV set completely.
- However, some TV sets may have features that require the TV set to be left in standby to work correctly.

Continued
For children

- Do not allow children to climb on the TV set.
- Keep small accessories out of the reach of children, so that they are not mistakenly swallowed.

Precautions

Viewing the TV

- View the TV in moderate light, as viewing the TV in poor light or during long period of time, strains your eyes.
- When using headphones, adjust the volume so as to avoid excessive levels, as hearing damage may result.

Liquid Crystal Display (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 screen and is not a malfunction.
- Do not push or scratch the front filter, or place objects on top of this TV set. The image may be uneven or the LCD screen may be damaged.
- If this 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 this TV set is in use. This is not a malfunction.
- The LCD screen contains a small amount of liquid crystal. Some fluorescent tubes used in this TV set also contain mercury. Follow your local ordinances and regulations for disposal.

Handling and cleaning the screen face/cabinet of the TV set

- Be sure to unplug the mains lead connected to the TV set from mains socket before cleaning.
- To avoid material degradation or screen coating degradation, observe the following precautions.
- To remove dust from the screen face/cabinet, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution.
- Do not spray water or detergent directly on the TV set. It may drip to the bottom of the screen or exterior parts, and may cause a malfunction.
- Never use any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the screen surface and cabinet material.
- Periodic vacuuming of the ventilation openings is recommended to ensure to proper ventilation.
- When adjusting the angle of the TV set, move it slowly so as to prevent the TV set from moving or slipping off from its table stand.

Optional Equipment

- Keep optional components or any equipment emitting electromagnetic radiation away from the TV set. Otherwise picture distortion and/or noisy sound may occur.
- This equipment has been tested and found to comply with the limits set out in the EMC Directive using a connection signal cable shorter than 3 meters.

Batteries

- Observe the correct polarity when inserting batteries.
- Do not use different types of batteries together or mix old and new batteries.
- Dispose of batteries in an environmentally friendly way. Certain regions may regulate the disposal of batteries. Please consult your local authority.
- Handle the remote with care. Do not drop or step on it, or spill liquid of any kind onto it.
- Do not place the remote in a location near a heat source, a place subject to direct sunlight, or a damp room.

Disposal of the TV set

Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems)

This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbols for mercury (Hg) or lead (Pb) are added if the battery contains more than 0.0005% mercury or 0.004% lead. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product.
Displays the instruction manual on the screen.

**Navigating through the Instruction Manual**

1. Press **i-MANUAL**.
2. Press å/ø to select topic from the Table of Contents, then press ö.
   Use the corresponding coloured button to go to next or previous page and to return to Table of Contents.
   If the explanation is linked to other topic, the symbol © will appear. Press å/ø/ø/ø to select © then press ©. Press ➤ ➥ RETURN to go back.
3. Press ➤ ➥ RETURN to exit.

• The XMB™ (XrossMediaBar) is a menu of BRAVIA features and input sources displayed on the TV screen.
Installing the Accessories (Wall-Mount Bracket)

To Customers:
For product protection and safety reasons, Sony strongly recommends that installing of your TV be performed by Sony dealers or licensed contractors. Do not attempt to install it yourself.

To Sony Dealers and Contractors:
Provide full attention to safety during the installation, periodic maintenance and examination of this product.

- Refer to the Instructions supplied with the Wall-Mount Bracket to properly carry out the installation.
- Refer to “Detaching the Table-Top Stand from the TV” (page 8).

≠
- Place the TV on the Table-Top Stand, when securing the Mounting Hook.

Sufficient expertise is required for installing this product, especially to determine the strength of the wall for withstanding the TV’s weight. Be sure to entrust the attachment of this product to the wall to Sony dealers or licensed contractors and pay adequate attention to safety during the installation. Sony is not liable for any damage or injury caused by mishandling or improper installation.
### TV installation dimensions table

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Display dimensions</th>
<th>Screen centre dimension</th>
<th>Length for each mounting angle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Length</td>
<td>Height</td>
<td>Angle (0°)</td>
</tr>
<tr>
<td>KDL-46EX4xx</td>
<td>112.7</td>
<td>67.4</td>
<td>42.4</td>
</tr>
<tr>
<td>KDL-40NX5xx</td>
<td>102.3</td>
<td>62.8</td>
<td>43.9</td>
</tr>
<tr>
<td>KDL-40BX4xx</td>
<td>99.6</td>
<td>59.8</td>
<td>42.5</td>
</tr>
<tr>
<td>KDL-40EX4xx</td>
<td>99.2</td>
<td>59.8</td>
<td>42.5</td>
</tr>
<tr>
<td>KDL-40EX6xx</td>
<td>95.2</td>
<td>58.1</td>
<td>43.1</td>
</tr>
<tr>
<td>KDL-37EX4xx</td>
<td>92.1</td>
<td>56.4</td>
<td>42.7</td>
</tr>
<tr>
<td>KDL-32NX5xx</td>
<td>82.5</td>
<td>51.7</td>
<td>43.2</td>
</tr>
<tr>
<td>KDL-32BX3/BX4xx</td>
<td>80.4</td>
<td>49.7</td>
<td>42.6</td>
</tr>
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<td>KDL-32EX6xx</td>
<td>76.4</td>
<td>47.5</td>
<td>43.1</td>
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<tr>
<td>KDL-26EX3xx</td>
<td>67.2</td>
<td>42.3</td>
<td>31.5</td>
</tr>
<tr>
<td>KDL-22EX3xx</td>
<td>55.1</td>
<td>36.7</td>
<td>32.9</td>
</tr>
</tbody>
</table>

Figures in the above table may differ slightly depending on the installation.

**WARNING**

The wall that the TV will be installed on should be capable of supporting a weight of at least four times that of the TV. Refer to “Specifications” (page 15) for its weight.
# Screw and Hook locations diagram/table

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Screw location</th>
<th>Hook location</th>
</tr>
</thead>
<tbody>
<tr>
<td>KDL-46EX4xx</td>
<td>d, g</td>
<td>b</td>
</tr>
<tr>
<td>KDL-40BX4/EX4/NX5xx</td>
<td>d, g</td>
<td>b</td>
</tr>
<tr>
<td>KDL-40EX6xx</td>
<td>e, j</td>
<td>b</td>
</tr>
<tr>
<td>KDL-37EX4xx</td>
<td>d, g</td>
<td>b</td>
</tr>
<tr>
<td>KDL-32BX3/BX4/EX3/EX4/NX5xx</td>
<td>e, g</td>
<td>c</td>
</tr>
<tr>
<td>KDL-32EX6xx</td>
<td>f, j</td>
<td>c</td>
</tr>
<tr>
<td>KDL-26EX3xx</td>
<td>a</td>
<td>b</td>
</tr>
<tr>
<td>KDL-22EX3xx</td>
<td>b</td>
<td>a</td>
</tr>
</tbody>
</table>

**Hook location**

- **a**
- **b**

**Screw location**

- **a**
- **b**
- **c**

---

**KDL-46EX4xx**

- KDL-40BX4/EX4/EX6/NX5xx
- KDL-37EX4xx

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**KDL-26EX3xx**

- KDL-22EX3xx
## Specifications

|-------------------|-------------|-------------------------|-------------|---------------------------------|-------------|-------------|

### System

- **Panel System**: LCD (Liquid Crystal Display) Panel
- **TV System**: Depending on your country/region selection
  - Analogue: B/G/H, D/K, L, I
  - Digital: MPEG-2 MP@ML/HL, H.264/MPEG-4 AVC HP@L4.0, MP@L3.0
- **Colour/Video System**
  - Analogue: PAL, PAL60 (only video input), SECAM, NTSC3.58, NTSC4.33 (only video input)
  - Digital: MPEG-2 MP@ML/HL, H.264/MPEG-4 AVC HP@L4.0, MP@L3.0
- **Channel Coverage**
  - Analogue: 46.25 - 855.25 MHz
  - Digital: VHF/UHF
- **Sound Output**
  - 10 W + 10 W (RMS)
  - 5 W + 5 W (RMS)

### Input/Output jacks

- **Aerial**: 75 ohm external terminal for VHF/UHF
- **S-Video AV1**: 21-pin scart connector including audio/video input, Y, Cb/Cr, L, R, S-Video input, and Analogue TV audio/video output.
- **S-Video AV2**: 21-pin scart connector including audio/video input, Y, Cb/Cr, L, R, S-Video input, and audio/video output.
- **COMPONENT IN**: Supported formats: 1080p, 1080p24, 1080i, 720p, 576p, 576i, 480p, 480i, 480i: 0.7 Vp-p, 75 ohms, 0.3V negative sync
  - Y: 0.7 Vp-p, 75 ohms
  - Pb/Cb: 0.7 Vp-p, 75 ohms
  - Pr/Cr: 0.7 Vp-p, 75 ohms
- **COMPONENT IN Audio input (phono jacks)**
- **HDMI IN 1, 2, 3, 4**: Video: 1080p, 1080p24, 1080i, 720p, 576p, 576i, 480p, 480i
  - Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24 bits, Dolby Digital
  - PC (see page 17)
  - Analogue audio (minijack) (HDMI 1 only)
- **AV3**: Video input (phono jack)
- **AV3 Audio input (phono jacks)**
- **DIGITAL AUDIO OUT (OPTICAL)**: Digital optical jack (Two channel linear PCM, Dolby Digital)
- **PC IN**: PC Input (15 Dsub) (see page 17)
  - G: 0.7 Vp-p, 75 ohms, non Sync on Green/B: 0.7 Vp-p, 75 ohms
  - R: 0.7 Vp-p, 75 ohms, H/V Sync: TTL level
  - PC audio input (minijack)
- **Headphones jack**
- **USB port**
- **CAM (Conditional Access Module) slot**

### Power and others

- **Power Requirements**: 220-240 V AC, 50 Hz
- **Screen Size (measured diagonally)**
  - 46 inches / Approx. 117 cm
  - 40 inches / Approx. 102 cm
  - 37 inches / Approx. 94 cm
  - 32 inches / Approx. 80 cm
  - 26 inches / Approx. 66 cm
  - 22 inches / Approx. 55 cm
- **Display Resolution**
  - 1,366 dots (horizontal) × 768 lines (vertical) (KDL-32EX3xx, KDL-26EX3xx, KDL-22EX3xx)
- **Power consumption**
  - in “Home”/“Standard” mode: 142 W
  - in “Shop”/“Vivid” mode: 183 W
  - in “Home”/“Standard” mode: 110 W
  - in “Shop”/“Vivid” mode: 146 W
  - 75.0 W (KDL-40EX6xx)
  - 61.0 W (KDL-32EX6xx)
  - 62 W

**Continued**
<table>
<thead>
<tr>
<th></th>
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<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Standby Power Consumption</td>
<td>0.19 W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Off mode Power Consumption</td>
<td>0.18 W</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standby Power Consumption*3</td>
<td></td>
<td>207 kWh</td>
<td>161 kWh</td>
<td>139 kWh</td>
<td>107 kWh</td>
<td>76 kWh</td>
</tr>
<tr>
<td>Off mode Power Consumption</td>
<td></td>
<td>0.18 W</td>
<td>0.17 W</td>
<td>0.16 W</td>
<td>0.15 W</td>
<td>0.14 W</td>
</tr>
<tr>
<td>Average annual energy</td>
<td>207 kWh</td>
<td>161 kWh</td>
<td>139 kWh</td>
<td>107 kWh</td>
<td>76 kWh</td>
<td>57 kWh</td>
</tr>
<tr>
<td>consumption*4</td>
<td></td>
<td>161 kWh</td>
<td>139 kWh</td>
<td>107 kWh</td>
<td>76 kWh</td>
<td>57 kWh</td>
</tr>
<tr>
<td>Dimensions (w x h x d)</td>
<td>112.7 x 71.1 x 29.4 cm</td>
<td>102.3 x 66.5 x 31.0 cm (KDL-40NX5xx)</td>
<td>99.6 x 63.5 x 25.0 cm (KDL-40BX4xx)</td>
<td>99.2 x 63.5 x 25.0 cm (KDL-40EX4xx)</td>
<td>95.2 x 61.3 x 25.0 cm (KDL-40EX6xx)</td>
<td>82.5 x 55.4 x 26.0 cm (KDL-32NX5xx)</td>
</tr>
<tr>
<td>(without stand)</td>
<td>112.7 x 67.4 x 10.2 cm</td>
<td>102.3 x 62.8 x 10.0 cm (KDL-40NX5xx)</td>
<td>99.6 x 59.8 x 9.9 cm (KDL-40BX4xx)</td>
<td>99.2 x 59.8 x 10.0 cm (KDL-40EX4xx)</td>
<td>95.2 x 58.1 x 7.4 cm (KDL-40EX6xx)</td>
<td>82.5 x 51.7 x 10.2 cm (KDL-32NX5xx)</td>
</tr>
<tr>
<td>Mass (Approx.)</td>
<td>20.4 kg</td>
<td>22.4 kg (KDL-40NX5xx)</td>
<td>15.6 kg (KDL-40BX4xx)</td>
<td>15.9 kg (KDL-40EX4xx)</td>
<td>14.9 kg (KDL-40EX6xx)</td>
<td>15.5 kg (KDL-32NX5xx)</td>
</tr>
<tr>
<td>(without stand)</td>
<td>18.1 kg</td>
<td>19.2 kg (KDL-40NX5xx)</td>
<td>13.6 kg (KDL-40BX4xx)</td>
<td>13.9 kg (KDL-40EX4xx)</td>
<td>12.7 kg (KDL-40EX6xx)</td>
<td>13.0 kg (KDL-32NX5xx)</td>
</tr>
</tbody>
</table>

Supplied Accessories: Refer to “1: Checking the accessories” on page 4.

Optional Accessories: See “Installing the Accessories (Wall-Mount Bracket)” on page 12.

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1 AV1 outputs available only for analogue TV.
2 AV2 outputs watching screen (except PC, HDMI, Component, USB).
3 Specified standby power is reached after the TV finishes necessary internal processes.
4 4 hours a day and 365 days a year.

Design and specifications are subject to change without notice.
### PC Input Signal Reference Chart for PC IN

<table>
<thead>
<tr>
<th>Signals</th>
<th>Horizontal (Pixel)</th>
<th>Vertical (Line)</th>
<th>Horizontal frequency (kHz)</th>
<th>Vertical frequency (Hz)</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGA</td>
<td>640</td>
<td>480</td>
<td>31.5</td>
<td>60</td>
<td>VGA</td>
</tr>
<tr>
<td>SVGA</td>
<td>800</td>
<td>600</td>
<td>37.9</td>
<td>60</td>
<td>VESA Guidelines</td>
</tr>
<tr>
<td>XGA</td>
<td>1024</td>
<td>768</td>
<td>48.4</td>
<td>60</td>
<td>VESA Guidelines</td>
</tr>
<tr>
<td>WXGA</td>
<td>1280</td>
<td>768</td>
<td>47.4</td>
<td>60</td>
<td>VESA</td>
</tr>
<tr>
<td>WXGA</td>
<td>1280</td>
<td>768</td>
<td>47.8</td>
<td>60</td>
<td>VESA</td>
</tr>
<tr>
<td>WXGA</td>
<td>1360</td>
<td>768</td>
<td>47.7</td>
<td>60</td>
<td>VESA</td>
</tr>
<tr>
<td>SXGA</td>
<td>1280</td>
<td>1024</td>
<td>64</td>
<td>60</td>
<td>VESA</td>
</tr>
<tr>
<td>UXGA</td>
<td>1600</td>
<td>1200</td>
<td>75</td>
<td>60</td>
<td>VESA</td>
</tr>
<tr>
<td>HDTV</td>
<td>1920</td>
<td>1080</td>
<td>67.5</td>
<td>60</td>
<td>EIA</td>
</tr>
</tbody>
</table>

- This TV's PC input does not support Sync on Green or Composite Sync.
- This TV's PC input does not support interlaced signals.
- This TV's PC input supports signals in the above chart with a 60 Hz vertical frequency.

### PC Input Signal Reference Chart for HDMI IN 1, 2, 3 and 4

<table>
<thead>
<tr>
<th>Signals</th>
<th>Horizontal (Pixel)</th>
<th>Vertical (Line)</th>
<th>Horizontal frequency (kHz)</th>
<th>Vertical frequency (Hz)</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGA</td>
<td>640</td>
<td>480</td>
<td>31.5</td>
<td>60</td>
<td>VGA</td>
</tr>
<tr>
<td>SVGA</td>
<td>800</td>
<td>600</td>
<td>37.9</td>
<td>60</td>
<td>VESA Guidelines</td>
</tr>
<tr>
<td>XGA</td>
<td>1024</td>
<td>768</td>
<td>48.4</td>
<td>60</td>
<td>VESA Guidelines</td>
</tr>
<tr>
<td>WXGA</td>
<td>1280</td>
<td>768</td>
<td>47.4</td>
<td>60</td>
<td>VESA</td>
</tr>
<tr>
<td>WXGA</td>
<td>1280</td>
<td>768</td>
<td>47.8</td>
<td>60</td>
<td>VESA</td>
</tr>
<tr>
<td>WXGA</td>
<td>1360</td>
<td>768</td>
<td>47.7</td>
<td>60</td>
<td>VESA</td>
</tr>
<tr>
<td>SXGA</td>
<td>1280</td>
<td>1024</td>
<td>64</td>
<td>60</td>
<td>VESA</td>
</tr>
</tbody>
</table>
Troubleshooting

Check whether the • (standby) indicator is flashing in red.

When it is flashing
The self-diagnosis function is activated.
Press • on the side of the TV to turn it off, disconnect the mains lead, and inform your dealer or Sony service centre.
If the red LED flashes 19 times, please switch off the set and remove the faulty USB device.
If the red LED flashes 20 times, please switch off the set and remove the faulty CAM device.

When it is not flashing
1 Check the items in the tables below.
2 If the problem still persists, have your TV serviced by qualified service personnel.

If the • (standby) indicator lights up in red, press I/•.

• You can refer to the complete troubleshooting section in the on-screen instruction manual.
• For further information, please contact Sony Customer Information Centre at the address or telephone that appears on the supplied guarantee.

Picture
No picture (screen is dark) and no sound
• Check the aerial/cable connection.
• Connect the TV to the mains, and press • on the side of the TV.
• If the • (standby) indicator lights up in red, press I/•.

Only snow and noise appear on the screen
• Check if the aerial is broken or bent.
• Check if the aerial has reached the end of its serviceable life (three to five years in normal use, one to two years at the seaside).
Television in the UK is going digital, bringing us all more choice and new services. Starting in late 2007 and ending in 2012, television services in the UK will go completely digital, TV region by TV region. Please see overleaf to find out when your area switches to digital.

Digital UK is the independent, non-profit organisation leading the process of digital TV switchover in the UK. Digital UK provides impartial information on what people need to do to prepare for the move to digital, and when they need to do it.

**How the switchover affects your TV equipment:**

Your new TV has a digital tuner built in, which means it is ready to receive the Freeview signal by simply plugging it into your aerial socket (check if you can get digital TV through your aerial now, or whether you'll have to wait until switchover, at [www.digitaluk.co.uk](http://www.digitaluk.co.uk)).

When the TV switchover happens in your area, there are at least two occasions when you will need to re-tune your TV in order to continue receiving your existing TV channels, and also to pick up new ones. Digital UK, the body leading the digital TV switchover, will advise you when you need to re-tune during the switchover.

If you choose to connect your TV to satellite or cable with a digital box then it will not be affected by switchover, and you won’t need to re-tune.
How to re-tune:

1. Press "HOME" on the remote.
2. Press ←/→ to select "Settings".
3. Press ←/→ to select "Set-up", then press ．
4. Press ←/→ to select "Digital Set-up", then press ．
5. Press ←/→ to select "Digital Tuning", then press ．
6. Press ←/→ to select "Digital Auto Tuning", then press ．
7. Follow the on screen instructions.

If you are missing any channels, it may be that they are not available in your area, or that your aerial needs upgrading.

If you have any questions, please contact Sony on 08705 111 999 or call Digital UK on 0845 6 50 50 50 or visit www.digitaluk.co.uk