Operating Instructions

SONY BRAVIA

LCD Digital Color TV

Sony Customer Support
U.S.A.: www.sony.com/tvsupport
Canada: www.sony.ca/support

United States  Canada
1.800.222.SONY  1.877.899.SONY

Please Do Not Return
the Product to the Store
Owner’s Record
The model and serial numbers are located at the rear of the TV. Record these numbers in the spaces provided below. Refer to them whenever you call upon your Sony dealer regarding this TV.
Model Name
Serial No.

CAUTION
To prevent electric shock and blade exposure, do not use this polarized AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted.
- Operate the TV only on 120 V AC.
- Avoid operating the TV at temperatures below 41°F (5 °C).

Declaration of Conformity
Trade Name: SONY
Model: KDL-52VE5/KDL-46VE5/
KDL-40VE5
Responsible Party: Sony Electronics Inc.
Address: 16530 Via Esprillo,
San Diego, CA 92127 U.S.A.
Telephone Number: 858-942-2230
This device complies with part 15 of the
FCC rules. Operation is subject to the
following two conditions: (1) This
device may not cause harmful
interference, and (2) this device must
accept any interference received,
including interference that may cause
undesired operation.

For customers in Canada
This Class B digital apparatus complies
with Canadian ICES-003.

FCC Related Information
This equipment has been tested and found
to comply with the limits for a Class B
digital device, pursuant to Part 15 of the
FCC Rules. These limits are designed to
provide reasonable protection against
harmful interference in a residential
installation. This equipment generates, uses
and can radiate radio frequency energy and,
if not installed and used in accordance with
the instructions, may cause harmful
interference to radio communications.
However, there is no guarantee that
interference will not occur in a particular
installation. If this equipment does cause
harmful interference to radio or television
reception, which can be determined by
turning the equipment off and on, the user is
cajoled to try to correct the interference
by one or more of the following measures:
- Reorient or relocate the receiving
  antenna.
- Increase the separation between the
equipment and receiver.
- Connect the equipment into an
  outlet on a circuit different from that
to which the receiver is connected.
- Consult the dealer or an experienced
  radio/TV technician for help.

Pursuant to FCC regulations, you are
cautioned that any changes or
modifications not expressly approved
in this manual could void your
authority to operate this equipment.

The shielded interface cable recommended
in this manual must be used with this
equipment in order to comply with the
limits for a digital device pursuant to
Subpart B of Part 15 of FCC Rules.

Note
This television includes a QAM
demodulator which should allow you to
receive unscrambled digital cable
television programming via subscription
service to a cable service provider.
Availability of digital cable television
programming in your area depends on the
type of programming and signal provided
by your cable service provider.

For Customers in the United States
The lamp in this product
contains mercury. Disposal of
these materials may be
regulated due to environmental
considerations. For disposal or recycling information,
please contact your local authorities or the Electronic
Industries Alliance (www.eiae.org).

Compatible Wall Mount Bracket
Information
Use the following Sony WALL-MOUNT
BRACKET with your TV model.

<table>
<thead>
<tr>
<th>Sony TV Model No.</th>
<th>SU-WL500</th>
</tr>
</thead>
<tbody>
<tr>
<td>KDL-52VE5/KDL-46VE5/KDL-40VE5</td>
<td></td>
</tr>
</tbody>
</table>

Use with other WALL-MOUNT
BRACKETS may cause instability and
could result in property damages or injury.

To Customers
Sufficient expertise is required for TV
installations. Be sure to subcontract the
installation to a Sony dealer or licensed
contractor and pay adequate attention to
safety during the installation.

Licensing Information
Macintosh is a trademark of Apple Inc.,
registered in the U.S. and other countries.
HDMI, the HDMI logo and
High-Definition Multimedia Interface are trademarks or registered trademarks of
HDMI Licensing, LLC.
Fergason Patent Properties, LLC:
U.S. Patent No. 5,717,422
U.S. Patent No. 6,816,141
Manufactured under license from Dolby
Laboratories. Dolby and the double-D
symbol are trademarks of Dolby
Laboratories.
TruSurround XT, SRS and symbol are
trademarks of SRS Labs, Inc.
TruSurround XT technology is incorporated under
license from SRS Labs, Inc.
Blu-ray Disc is a trademark.
“BRAVIA”, BRAVIA, Motionflow,
BRAVIA Sync and are trademarks or
registered trademarks of Sony Corporation.
“PlayStation” is a registered trademark and
“PS3” is a trademark of Sony Computer
Entertainment Inc.

Your BRAVIA TV is
ENERGY STAR®
qualified in the “Home”
mode.
It meets strict energy
efficiency guidelines set
by the U.S.
Environmental Protection Agency and
Department of Energy. ENERGY STAR is
a joint program of these government
agencies, designed to promote energy
efficient products and practices.

- When the TV is initially set up, it is
designed to meet ENERGY STAR
requirements.
- Changes to certain features, settings,
and functionalities of this TV
(i.e. Picture/Sound, Light Sensor,
Power Savings) can slightly change
the power consumption.
Depending upon such changed settings, the
power consumption may increase which
possibly could exceed the limits required
for the ENERGY STAR qualification.
Contents

Introducing Your New BRAVIA®
Welcome to the World of BRAVIA® . . . . . . . . .4
Experiencing Stunning HD with
  Your BRAVIA . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .4
The Four Steps to a Full HD Experience . . . . . .5
TV Feature Highlights . . . . . . . . . . . . . . . . . . . . . . . .5

Getting Started
Setting Up Your TV . . . . . . . . . . . . . . . . . . . . . . . . . . .6
Locating Inputs and Outputs . . . . . . . . . . . . . . . . . . . .7
Connecting Other Equipment . . . . . . . . . . . . . . . . . . . .9
Bundling the Connecting Cables . . . . . . . . . .10
Securing the TV . . . . . . . . . . . . . . . . . . . . . . . . . .10
Inserting Batteries into the Remote
  Control . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .11
Initial Setup . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .11

Operating the TV
Remote Control Button Description . . . . . . . . .12
TV Controls and Indicators . . . . . . . . . . . . . . . . .14

Using Features
Using BRAVIA® Sync™ with Control for
  HDMI. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .15
Favorites . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .15
Wide Mode . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .16
Wide Mode with PC . . . . . . . . . . . . . . . . . . . . . . . . . .17
Photo and Music . . . . . . . . . . . . . . . . . . . . . . . . . . .18
Energy Saving Switch . . . . . . . . . . . . . . . . . . . . . . . .19
Presence Sensor . . . . . . . . . . . . . . . . . . . . . . . . . . .19

Using the Menus
Navigating through TV Menus . . . . . . . . . . . . . . . .20

Other Information
How to Care for Your BRAVIA . . . . . . . . . . . . . . .21
Things to consider. . . . . . . . . . . . . . . . . . . . . . . . . .21
Troubleshooting . . . . . . . . . . . . . . . . . . . . . . . . . .21
Specifications . . . . . . . . . . . . . . . . . . . . . . . . . . . .22
Index . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .23

Customer Support
United States
http://www.sony.com/tvsupport
Canada
http://www.sony.ca/support

On-line Registration
United States
http://productregistration.sony.com
Canada
http://www.SonyStyle.ca/registration
Introducing Your New BRAVIA®

Welcome to the World of BRAVIA®

Thank you for purchasing this Sony BRAVIA high-definition television. Use the documentation listed below to get the most out of your TV.

Safety Booklet
Provides precautionary measures to keep you and your TV safe. Read this information prior to setting up your TV.

Quick Setup Guide
Provides TV setup information, illustrates sample optional equipment connection diagrams.

Operating Instructions
Provides general TV operation information that will allow you to view your TV with minimal customizations.

Reference Book
Offers the most complete TV operation information available for your TV and presents advanced customization details. Access it at www.sony.com/referencebook.

The TV operation information above has been designed in an eco-friendly manner to reduce the consumption of natural resources.

Experiencing Stunning HD with Your BRAVIA

The quality of the image you see on your BRAVIA TV is only as good as the quality of the signal it receives. To experience the stunning detail of your new BRAVIA TV, you need access to HD programming. Your BRAVIA TV can receive and display HD programming from:

- Over-the-air broadcasting via HD-quality antenna
- HD cable subscription
- HD satellite subscription
- Blu-ray Disc™ player or other HD compatible external equipment

Contact your cable or satellite provider for information on upgrading to HD programming.

This manual is for the 40, 46 and 52 inch BRAVIA KDL-VE5 series models with screen size measured diagonally.
The Four Steps to a Full HD Experience

Set, Sound, Source, and Setup

Along with your BRAVIA TV set, a complete HD system requires an HD sound system, a source of HD programming and a proper connection setup. Refer to the Quick Setup Guide, enclosed separately, for connecting other optional equipment.

16:9 (high-definition) source
Most HDTV signals use a wide screen aspect ratio of 16:9. The 16:9 fills your BRAVIA screen, maintaining a crisp, clear, vivid picture.

4:3 (standard-definition) source
Most standard-definition signals use a boxy 4:3 aspect ratio. When a 4:3 image is displayed on an HDTV, you will see black bars on the sides. The picture quality may not be as sharp as with HD sources.

TV Feature Highlights

Your new BRAVIA High Definition LCD TV will dazzle you with stunning 1080p image quality but won’t confuse you with complicated operation. The following features have been included to help you get started enjoying your new TV.

➢ BRAVIA Sync: Your BRAVIA TV communicates with other Sony equipment supporting the Control for HDMI function (page 15).

➢ Motionflow: Enhances the smoothness of picture movement to reduce the blur.

➢ Favorites: Your favorite channels and inputs are at your fingertips for easy access to programs and inputs (page 15).

➢ USB Digital Photo and Music Player: Connect your USB storage device directly to your HDTV’s USB input to view digital photos on the big screen and listen to your favorite music (see page 18).

➢ ECO Settings: This model includes a number of features designed to make your new BRAVIA HDTV easier on your pocketbook and the environment.
  - Backlight - This feature reduces power consumption by turning off the backlight.
  - Light Sensor - Detects the amount of light in your room and automatically adjusts the brightness of the screen resulting in more comfortable viewing in any light condition.
  - Presence Sensor - Turns off the backlight to save energy when no motion or body heat is detected in the vicinity after a user-set timeframe (see page 19).
  - Energy Saving Switch - Eliminates all power consumption when activated.

Suggestions

• Check more details on the online Reference Book at www.sony.com/referencebook.
Getting Started

Setting Up Your TV

Some TV models are packaged with a detached Table-Top Stand so you can mount it to a wall right away. If you are not mounting the TV to a wall, you will need to attach the Table-Top Stand. You will need a Phillips screwdriver and the supplied screws to complete the task. Look for the instructions attached to the TV unit or read the instructions in the online Reference Book.

Be sure to consider the following while setting up your TV:

- Carry the TV with an adequate number of people; larger size TVs require two or more people.
- Correct hand placement while carrying the TV is very important for safety and to avoid damages.
- Ensure your TV has adequate ventilation if it is installed against a wall or in an enclosed area.
- For best picture quality, do not expose the screen to direct illumination or sunlight.
- Avoid installing the TV in a room with reflective wall and floor materials.
- Avoid moving the TV from a cold area to a warm area. Sudden room temperature changes may cause moisture condensation. This may cause the TV to show poor picture and/or poor color. Should this occur, allow moisture to evaporate completely before powering the TV on.

Suggestions

- Read the Dos and Don’ts in the Safety Booklet for additional safety information.
- For details about the items listed above, see the online Reference Book.
- When cable connection is completed, be sure to secure the TV to a stable surface or mount it to a wall. The designated Sony wall-mount bracket model name is available on page 2. For details on securing the TV, see page 10.
Locating Inputs and Outputs

### Rear Panel

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SERVICE</td>
</tr>
<tr>
<td>2</td>
<td>VIDEO IN 1/ COMPONENT IN 1 (1080p/1080i/720p/480p/480i)/L-AUDIO-R</td>
</tr>
<tr>
<td>3</td>
<td>COMPONENT IN 2</td>
</tr>
<tr>
<td>4</td>
<td>AUDIO OUT (FIX)</td>
</tr>
</tbody>
</table>

### Side Panel

- **Component 1 VCR**
  - **Channels & Inputs**
    - Video/Component 1
    - Component 1
  - **Control for HDMI** On
  - **Device List**
  - **Device Auto Power Off** Off
  - **TV Auto Power On** Off
  - **Signal Diagnostics**

(Continued)
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>HDMI IN 1/2/3/4 L-AUDIO-R</td>
</tr>
<tr>
<td>6</td>
<td>DIGITAL AUDIO OUT (OPTICAL)</td>
</tr>
<tr>
<td>7</td>
<td>AC IN</td>
</tr>
<tr>
<td>8</td>
<td>CABLE/ANTENNA</td>
</tr>
<tr>
<td>9</td>
<td>USB</td>
</tr>
<tr>
<td>10</td>
<td>PC IN (RGB/AUDIO)</td>
</tr>
<tr>
<td>11</td>
<td>VIDEO IN 2 S VIDEO/VIDEO/ L (MONO)-AUDIO-R</td>
</tr>
</tbody>
</table>

**Suggestions**

Be sure to refer to the Quick Setup Guide for:

- High quality picture performances
- Combination of equipment connections
- Cable types to use for connection

To view 480p, 720p, 1080i, and 1080p formats, an HDMI or Component video (YPbPr) is necessary. Connect your equipment properly and playback the video with capable equipment. This TV displays all picture format types in a resolution of 1,920 dots × 1,080 lines.
Connecting Other Equipment

- Refer to the Quick Setup Guide (supplied) when connecting other equipment to your TV.
Bundling the Connecting Cables

You can bundle the connecting cables with the supplied cable band as illustrated below. Do not bundle the AC power cord with other connecting cables.

Securing the TV

Sony strongly recommends taking measures to prevent the TV from toppling over. Unsecured TVs may topple and result in property damage, serious bodily injury or even death.

Detailed information available on online Reference Book

Secure the Stand for the TV

Anchor the TV to the Wall

Secure the TV to the Stand

Contact Sony Customer Support to purchase the optional Support Belt Kit by providing your TV model name.
- For United States call: 1-800-488-7669 or visit: www.sony.com/accessories
- For Canada call: 1-877-899-7669
**Inserting Batteries into the Remote Control**

Insert two size AA batteries (supplied) by matching + and − on the batteries to the diagram inside the battery compartment of the remote control.

---

**Initial Setup**

The **Initial Setup** screen appears when you turn on the TV for the first time.

During this initial setup, you can perform the following:

1. Select the language for the on-screen display text.
2. Select **HOME** or **Retail** mode.
3. Connect cable or antenna, then select **OK** to run **Auto Program**.

- If you have cable and antenna available, please connect cable first.
- **IMPORTANT**: **Auto Program** is only effective when cable or antenna is connected. If you cancel **Auto Program** before completion some channels may not be available.

4. **Auto Program** will scan for available channels from the signal source directly connected to the TV’s CABLE/ANTENNA input and may take sometime to complete the process. Follow the help text provided on the screen to run **Auto Program**.

---

**Suggestions**

- When prompted to select **HOME** or **Retail**, be sure to select **HOME** for ENERGY STAR compliant mode.
- If you use both cable without a box and antenna connections, use an A-B RF switch (not supplied). For more details see the online Reference Book.
- Select your preferred aspect ratio for the screen display. Press **WIDE** to select the wide mode or press **MENU** and set the **Auto Wide** to **On** under the **Screen** menu.
- To change the clock, press **MENU** and go to **Setup** menu then select **Clock/Timers** and adjust **Current Time**.
# Remote Control Button Description

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
</table>
| 1 DISPLAY | Press to display information about channel/program or input you are watching. The information banner will disappear in a few seconds or press again to exit. You can enable or disable the **Info Banner** by pressing **MENU** and go to the **Setup** Menu to set **Info Banner** to **On** or **Off**.  

- The TV will show the remaining time of the current program you are watching when the program time is less than 24 hours. |
| 2 CC | Press to turn on and off the **Closed Captions (CC)**. To change or customize the CC display, see the online Reference Book for more details. |
| 3 BRAVIA Sync | These buttons are used to control the connected equipment with **Control for HDMI** function (not available on all **Control for HDMI** equipment). Some other buttons on the remote control may also operate **BRAVIA** Sync™ equipment.  

- **(fast reverse):** Press to play a program in fast rewind mode.  
- **PLAY:** Press to play a program at a normal speed.  
- **PAUSE:** Press to pause playback.  
- **(fast forward):** Press to play a program in fast forward mode.  
- **SYNC MENU:** Displays the menu of the current selected **BRAVIA** Sync device.  
- **STOP:** Press to stop playback.  

**THEATER:** Press to turn on and off the **Theater Mode**. The picture settings will be set for a cinema-like experience and the audio will be switched to the audio output of the attached speakers from your **BRAVIA** Sync audio system. Your **BRAVIA** Sync audio system must be connected by an HDMI connection to your TV (see page 15 for details). |
| 4 FAVORITES | Press once to display the stored **Favorites** menu. Press again to exit from the **Favorites** menu. See page 15 for details. |
| 5 WIDE | Press repeatedly to cycle through the available **Wide Mode** settings. See page 16. |
| 6 RETURN | Press to go back to the previous screen or exit from the screen when displaying menu items and settings. |
| 7 MENU | Press to display the menu with TV functions and settings. See “**Using the Menus**” on page 20. |

- The 5, **PLAY** and **CH +** buttons have a tactile dot. Use them as a reference when operating the TV.
### Guidelines to follow

- Point your remote control directly at the IR sensor located on your TV.
- Make sure that no objects are blocking the path between the remote control and the IR sensor on your TV.
- Fluorescent lamps can interfere with your remote control; try turning off the fluorescent lamps.
- If you are having problems with the remote control, reinsert or replace your batteries and make sure that they are correctly inserted.
**TV Controls and Indicators**

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (IR) Infrared Receiver Light Sensor</td>
<td>Receives IR signals from the remote control. Senses room light level and adjusts the screen brightness accordingly. Do not put anything near the sensor or the nearby general area (as shown above), as its function may be affected.</td>
</tr>
<tr>
<td>2 Presence Sensor</td>
<td>Auto turn off the TV after a certain period when no motion or body heat is detected (see page 19 and the online Reference Book for more details).</td>
</tr>
<tr>
<td>3 PIC OFF/ TIMER LED</td>
<td>Lights up in amber when the Timer or Sleep functions are set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see the online Reference Book. Lights up in green when the Backlight feature is activated to Off or the backlight its turned off by Presence Sensor feature (see the online Reference Book for more details).</td>
</tr>
<tr>
<td>4 STANDBY LED</td>
<td>Lights up in red when the function PC Power Management is activated and there is no signal received while in the PC input. When the TV is turned off this LED will remain lit as long as the Energy Saving Switch is on (●) (see online Reference Book for more details). If the LED blinks in red continuously, this may indicate the TV needs servicing (see contacting Sony information on the front cover).</td>
</tr>
<tr>
<td>5 POWER LED</td>
<td>Lights up in green when the TV is turned on.</td>
</tr>
<tr>
<td>6 POWER</td>
<td>Press to turn on and off the TV. (Before turn on the TV confirm Energy Saving Switch is on (●), see page 19 for more details).</td>
</tr>
<tr>
<td>7 + CHANNEL –</td>
<td>Press to scan through channels. To scan quickly through channels, press and hold down either +/- . In the menu screen, these buttons serve as up/down buttons.</td>
</tr>
<tr>
<td>8 + VOLUME –</td>
<td>Press to adjust the volume. In the menu screen, these buttons serve as left/right buttons.</td>
</tr>
<tr>
<td>9 INPUT</td>
<td>Press to display the list of external inputs. To toggle through the inputs, press the buttons CHANNEL +/- . In the menu screen, this button serves to confirm the selection or setting.</td>
</tr>
<tr>
<td>10 MENU</td>
<td>Press to display menu with TV functions and settings (see “Using the Menus” on page 20).</td>
</tr>
</tbody>
</table>

The CHANNEL + button has a tactile dot. Use it as a reference when operating the TV.
Using Features

Using BRAVIA® Sync™ with Control for HDMI

The BRAVIA Sync function allows this TV to communicate with other Sony equipment supporting the Control for HDMI function.

To connect Sony equipment with Control for HDMI

Use an HDMI cable that bears the HDMI logo for connection. See the HDMI connection shown in the Quick Setup Guide provided with the TV documentation.

Setting the Control for HDMI

The Control for HDMI function must be set up in order for the TV to communicate with other Control for HDMI enabled equipment. Refer to the online Reference Book for information on how to set up this TV’s Control for HDMI function. For other equipment, refer to its operating instructions.

Available options using Control for HDMI

The following operations are available after you connect the supported Sony equipment with Control for HDMI function to your TV:
• Automatically turn off the connected equipment when you turn off the TV.
• The TV will automatically turn on and select the respective HDMI input.
• The connected equipment is turned on by One-Touch-Play.
• Possible operations with BRAVIA Sync buttons, see page 12.
• Equipment listed under External Inputs will turn on automatically when selected.

When a Sony A/V receiver with BRAVIA Sync is connected, the following additional operations are possible:
• Turning on the A/V receiver when the TV is turned on.
• Adjusting the volume and muting of the A/V receiver with the TV’s remote control.
• Pressing the magic Having on the remote control turns on and searches for an external audio system that supports BRAVIA Sync. When the BRAVIA Sync audio system is on, the internal speakers of the TV will turn off and the Picture Mode will change automatically to Cinema.
• When using BRAVIA Sync, the included remote control will change some of the buttons functions to accommodate control over the device. If the device does not support this feature, some buttons will remain without function.

Favorites

With Favorites, you can manage your preferred TV channels, External Inputs, Photo and Music content from a USB storage device.

Adding to Favorites

1 Press TOOLS to add the current channel or input while you are watching it.
2 Highlight Add to Favorites and press .

Displaying Favorites

Press FAVORITES on the remote control.
Navigating Favorites

1 Press $\leftrightarrow$ to move between saved selections in a carousel-like fashion.
2 When the recently viewed items are highlighted, press $\uparrow/\downarrow$ to move between them.
3 To tune to an item, highlight its icon and press $\textcircled{+}$.

Removing from Favorites

1 Press TOOLS to remove the current channel or input while you are watching it.
2 Highlight Remove from Favorites and press $\textcircled{+}$.

Suggestions

- Auto Program will clear your TV channels from Favorites (see page 11).

Wide Mode

The Wide Mode feature allows you to select the screen display of your preference. Based on the original source, a black frame or black bars may surround the picture.

You can manually change the Wide Mode setting while watching TV by pressing the WIDE button on your remote control.

How to set to Auto Wide

Press MENU then go to the Screen menu. Select Auto Wide and set to On.

Changing the Wide Screen Mode

Press WIDE repeatedly to cycle through the available modes.

<table>
<thead>
<tr>
<th>4:3 Original source</th>
<th>16:9 Original source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard-definition source</td>
<td>High-definition source</td>
</tr>
<tr>
<td>Wide Zoom</td>
<td>Wide Zoom</td>
</tr>
<tr>
<td>Normal</td>
<td>Normal</td>
</tr>
<tr>
<td>Full Pixel</td>
<td>Full Pixel</td>
</tr>
<tr>
<td>Zoom</td>
<td>Zoom</td>
</tr>
<tr>
<td>Full Pixel</td>
<td>Full Pixel</td>
</tr>
</tbody>
</table>

- Normal is available with 480i or 480p sources only as they are standard-definition and not from high-definition source such as component video input, HDMI input and digital TV.
- Full Pixel is available only for 720p, 1080i and 1080p formats excluding Cable/Antenna input.
- Full Pixel displays the picture in its native resolution.
**Wide Mode with PC**

**Changing the Wide Screen Mode for PC Timing**
Press **WIDE** repeatedly to cycle through the available modes while in the **PC** input.

<table>
<thead>
<tr>
<th>Incoming PC signal</th>
<th>Incoming PC signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 × 600</td>
<td>1,280 × 768</td>
</tr>
</tbody>
</table>

- **Wide Zoom** displays the picture in its native resolution.

**PC and HDMI Input Signal Reference Chart**

After connecting the PC to the TV, set the output signal from the PC according to the chart below.

<table>
<thead>
<tr>
<th>Signals</th>
<th>Resolution</th>
<th>Horizontal frequency (kHz)</th>
<th>Vertical frequency (Hz)</th>
<th>Standard</th>
</tr>
</thead>
<tbody>
<tr>
<td>VGA</td>
<td>Horizontal</td>
<td>Vertical</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Pixel)</td>
<td>(Line)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VGA</td>
<td>640</td>
<td>× 480</td>
<td>31.5</td>
<td>60</td>
</tr>
<tr>
<td>SVGA</td>
<td>800</td>
<td>× 600</td>
<td>37.9</td>
<td>60</td>
</tr>
<tr>
<td>XGA</td>
<td>1,024</td>
<td>× 768</td>
<td>48.4</td>
<td>60</td>
</tr>
<tr>
<td>WXGA</td>
<td>1,280</td>
<td>× 768</td>
<td>47.8</td>
<td>60</td>
</tr>
<tr>
<td>SXGA</td>
<td>1,360</td>
<td>× 768</td>
<td>47.7</td>
<td>60</td>
</tr>
<tr>
<td>HDTV</td>
<td>1,280</td>
<td>× 1,024</td>
<td>64.0</td>
<td>60</td>
</tr>
<tr>
<td>HDTV</td>
<td>1,920</td>
<td>× 1,080</td>
<td>67.5</td>
<td>60</td>
</tr>
</tbody>
</table>

- This TV’s PC input does not support Sync on Green or Composite Sync.
- This TV’s PC VGA input does not support interlaced signals.

**Suggestions**

- Adjust **Phase** to eliminate horizontal lines of the picture when the TV receives an input signal from the connected PC.
**Photo and Music**

**Enjoying Photos through the USB Port**
The TV offers easy access to JPEG photos stored on a USB connected memory device.

**Connecting USB Equipment**
The USB port is located on the side TV panel. Gently insert your USB memory device into the USB port to display your picture and music files on screen. For details on accessing photo files check the online Reference Book.

**USB Equipment Functionality**
Sony cannot guarantee or assure the USB functionality on this TV in the following cases:
- Use of audio clips processed on a computer
- Use of files obtained from the Internet or from a printed file processing center.

Sony recommends backing up all data stored on USB equipment to avoid potential data corruption. Sony cannot accept responsibility for lost or damaged data recorded on USB equipment.

The USB functionality on this TV is designed to be compatible with mass storage devices. Sony cannot guarantee or assure compatibility with all formats or products.

**Photo Options**
Insert your USB memory device to display your picture files on screen. Press TOOLS while displaying the picture and choose your desired photo viewing preferences. The photo display resolution range is 16 × 16 to 8,192 × 8,192 pixels.

**Thumbnail View** under USB menu allows easy access to JPEG photos and music files from USB connected memory device as still images and slideshows.

---

### Photo Options menu

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOOLS</td>
<td>To access Photo Options menu</td>
</tr>
<tr>
<td>Add to Slideshow</td>
<td>To include picture on Slideshow</td>
</tr>
<tr>
<td>Select Photo Files</td>
<td>To select photo files</td>
</tr>
<tr>
<td>Start Slideshow</td>
<td>To start slideshow</td>
</tr>
<tr>
<td>Rotate</td>
<td>To rotate the picture</td>
</tr>
<tr>
<td>View Information</td>
<td>Display picture information</td>
</tr>
<tr>
<td>Add or Remove from Favorites</td>
<td>To add or remove current picture from Favorites list</td>
</tr>
</tbody>
</table>

### Suggestions

- Media cannot be saved in the TV but can be added to FAVORITES and accessed when the equipment containing media is connected.
- When removing USB memory device, be sure to exit the photo menu to prevent data corruption.

**Viewing a Slideshow**
Individual files can be added to a Slideshow using TOOLS menu

**Music Options Menu**
Pressing TOOLS while displaying the list view of your music files and choose the desired action during play.

---

### Music Options menu

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add to Slideshow</td>
<td>Register music to play with slideshows</td>
</tr>
<tr>
<td>Select Music Files</td>
<td>To select music files</td>
</tr>
<tr>
<td>View Information</td>
<td>Display music information</td>
</tr>
<tr>
<td>Add or Remove from Favorites</td>
<td>To add or remove current song from Favorites list</td>
</tr>
</tbody>
</table>

---
Navigating Music Control Panel
Use ♦/◊/◄/► from the remote control to navigate music during play.

Suggestions
• The TOOLS Menu selections may vary.

Energy Saving Switch
Turning off the Energy Saving Switch can save stand by power consumption. It has the same effect as disconnecting TV’s power AC cord from the wall outlet.
To turn on the TV again, make sure the Energy Saving Switch is on (●) position, then press POWER button on the TV set or on the remote control.

Suggestions
• If Energy Saving Switch is turned off, the Timer settings and the Current Time will be cleared.
• If Energy Saving Switch is turned off, the TV power button or remote control power button can not work and the TV will not be turned on.
• To make the TV be standby condition, keep the Energy Saving Switch on (●) position, you will be able to use TV or remote power button to turn on the TV.

Presence Sensor
Presence Sensor effectively reduces power consumption by automatically turning off the picture when no one is present in the vicinity of the TV set (see online Reference Book for more details about this feature).

Sensor Range and Detection Angle
The Presence Sensor is capable of detecting vertical and horizontal movements. It may not detect forward/backward movements to/from the TV set. Large movements are easier to detect, even of someone in a relatively far distance.
The sensitivity of the sensor can vary substantially depending on ambient light and temperature in the room.
*The given sensor range and detection angle are measured under typical room conditions.

Suggestions
• The sensor is active while watching broadcast programs, DVD movies, video games and tapes. It is not active during functional views such as displaying menus and the TV guide.
• The sensor is disabled for inputs from computers.
• Do not put anything near the sensor or the nearby general area (shown above), as its function may be affected.
• The sensor may respond to heat from small animals and heating devices, as it picks up body heat.
• The sensor may trigger picture off when the viewer stays still for the given amount of time.
• Do not scratch or apply excessive force to the sensor surface, as it may damage the sensor and its function may be affected.
Using the Menus

The **MENU** button allows you to access the variety of TV settings for you to customize the settings.

Navigating through TV Menus

**✦✦ button:** Allows you to highlight options where applicable.

**✦ button:** Allows you to select the highlighted option and advance to the next screen.

**✦ button:** Allows you to move back to the previous screen.

**✦ button:** Allows you to move to the next screen.

<table>
<thead>
<tr>
<th>Picture</th>
</tr>
</thead>
<tbody>
<tr>
<td>On <strong>Picture</strong> Menu, you can adjust the picture you see to fit your viewing preference. These settings allow you to customize for the signals your TV receives; such as the broadcasted signal or signal from your gaming equipment or from your connected equipment.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sound</th>
</tr>
</thead>
<tbody>
<tr>
<td>The <strong>Sound</strong> Menu allows you to customize your sound settings to suit your audio preference. You can also set the settings to enjoy the sound from your connected audio system.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Screen</th>
</tr>
</thead>
<tbody>
<tr>
<td>The <strong>Screen</strong> Menu allows you to change the proportions of the screen. Depending on the signal your TV receives, the images on the screen can fill the screen from edge to edge on the screen or can be smaller, looking like a square in a rectangle shaped screen. The screen settings allow you to adjust the size and shape of image you see on your TV. Use the <strong>Wide Mode</strong> option or use <strong>Auto Wide</strong>, or <strong>4:3 Default</strong> to keep the square like screen size.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Channels &amp; Inputs</th>
</tr>
</thead>
<tbody>
<tr>
<td>The <strong>Channels &amp; Inputs</strong> Menu allows you to switch between the cable and antenna signal, run <strong>Auto Program</strong>, <strong>Add Digital Channels</strong>, or you can show or hide channels to appear when you use the CH+/− button or even label channels or inputs.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>USB</th>
</tr>
</thead>
<tbody>
<tr>
<td>The <strong>USB</strong> Menu allows you to view Photo and listen to Music files via USB or add music to a slideshow (see page 18).</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Lock</th>
</tr>
</thead>
<tbody>
<tr>
<td>The <strong>Parental Lock</strong> Menu allows you to block programs according to their content and rating labels and block channels (regardless of the programs). Set the password and limit the access based on the rating levels or block the channel. Not every program is suited for the general audiences.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>The <strong>Setup</strong> Menu allows you to set and customize <strong>Closed Captions</strong> with different size and color of the fonts, program the TV to turn off, select the <strong>Language</strong> for your on-screen display, or change the settings related to power consumption.</td>
</tr>
</tbody>
</table>

**Suggestions**

- Many of the options available on your TV come with help texts on screen. If you need further explanations on how to adjust these settings, see the online Reference Book.

- **Sleep** can be set from 15, 30, 60 or 120 minutes. Press **MENU** then go to **Setup** menu, select **Clock/Timers**, then **Sleep** and select your desired minutes.

- Use **TOOLS** button on the remote control to quickly access convenient functions.
Other Information

How to Care for Your BRAVIA

Safety is very important, please read and follow the safety documentation (Safety Booklet) provided with the TV.

- Unplug the TV and other connected equipment from the power source before you begin cleaning your TV. Gently dust the TV with a soft cloth. Do not use any chemicals or hard material to clean the TV as they may lead to discoloration and scratches. Stubborn stains can be wiped with a soft cloth moisten with warm water. Do not plug the TV back until the moisture from cleaning has evaporated.

- The TV should also be secured to a stable surface to prevent it from toppling over. Follow the instruction provided in the online Reference Book on securing the TV section or use a Sony designed wall mount bracket to mount the TV to wall. If you have young children or pets at home, check to see if the TV is securely fastened regularly.

Things to consider

- If there is no picture from some video sources, check the input selection by pressing INPUT button. You may be watching the wrong input.

- If there is no sound, you may have accidentally pressed the MUTING button on your remote control; press the MUTING button again or press VOL+ to deactivate muting.

- If the remote control does not operate, the batteries may be installed incorrectly or may be low. An object or light may be interfering with the remote control’s operation.

- To reset the TV to factory default settings:
  - Turn on the TV. Press and hold down the button on the remote, press the POWER button on the TV set. Release the button.
  - Select Product Support option under Setup menu and select OK on Return settings to factory defaults.

IMPORTANT: The reset will clear all of your customized settings. Parental Lock password may be required if it has been created.

If you have forgotten your password, enter the master password: 4357. This password clears your previous password and allows you to enter a new password.

The online Reference Book provides additional information on resolving problems. Read the online Reference Book at www.sony.com/referencebook before contacting Sony.

Troubleshooting

Many problems with picture and sound quality are related to improper connection of the cables; refer to the Quick Setup Guide provided for connections.

If you have questions, service needs, or require technical assistance related to the use of your Sony TV even after you read the online Reference Book, contact the following:

For US Support:
http://www.sony.com/tvsupport or call 1-800-222-SONY (7669)

For Canadian Support:
http://www.sony.ca/support or call 1-877-899-SONY (7669)
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>KDL-40VE5</th>
<th>KDL-46VE5</th>
<th>KDL-52VE5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Television system</td>
<td>NTSC: American TV standard ATSC (8VSB terrestrial): ATSC compliant 8VSB QAM on cable: ANSI/SCTE 07 2000 (Does not include CableCARD functionality)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Panel system</td>
<td>LCD (Liquid Crystal Display) Panel</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speaker output</td>
<td>10 W + 10 W</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Input/Output jacks

<table>
<thead>
<tr>
<th>Feature</th>
<th>KDL-40VE5</th>
<th>KDL-46VE5</th>
<th>KDL-52VE5</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABLE/ANTENNA</td>
<td>75-ohm external terminal for RF inputs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>VIDEO IN 1/2</td>
<td>S VIDEO (4-pin mini DIN) (VIDEO 2 only): Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative / C: 0.286 Vp-p (Burst signal), 75 ohms VIDEO: 1 Vp-p, 75 ohms unbalanced, sync negative AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>COMPONENT IN 1/2</td>
<td>YPbPr (Component Video): Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative / PB: 0.7 Vp-p, 75 ohms / PR: 0.7 Vp-p, 75 ohms / Signal format: 480i, 480p, 720p, 1080i, 1080p AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI IN 1/2/3/4</td>
<td>HDMI: Video: 480i, 480p, 720p, 1080i, 1080p, 1080/24p / Audio: Two channel linear PCM 32, 44.1 and 48 kHz, 16, 20 and 24bits. AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AUDIO OUT</td>
<td>500 mVrms (typical)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIGITAL AUDIO OUT (OPTICAL)</td>
<td>PCM optical signal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC IN</td>
<td>D-sub 15-pin, analog RGB, 0.7 Vp-p, 75 ohms, positive See the PC and HDMI Input Signal Reference Chart on page 17.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>PC AUDIO INPUT</td>
<td>Stereo mini jack, 500 mVrms, (Typical) / Impedance: 47 kilohms</td>
<td></td>
<td></td>
</tr>
<tr>
<td>USB</td>
<td>USB input support mass storage device class (USB MSC) that may include thumbdrives, hard disks and some MP3 players and cameras. This TV does not support MTP or PTP protocols used by some MP3 players and cameras. Supported JPG files include those that are compliant with ISO/IEC 10918-1 JPEG specification (8 bit per component, Grayscale/Color, Y:Cb:Cr=4:2:2 or Y:Cb:Cr=4:2:0, Base line DCT, Non-differential Huffman coding) and EXIF 2.2. Supported MP3 files bit rates in kpbs include 40, 48, 56, 64, 80, 96, 112, 128, 160, 192, 224, 256, 320 in both constant and variable rate. Scan frequencies supported include 32, 44.1 and 48 KHz.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Power and others

<table>
<thead>
<tr>
<th>Feature</th>
<th>KDL-40VE5</th>
<th>KDL-46VE5</th>
<th>KDL-52VE5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power requirement</td>
<td>120 V AC, 60 Hz</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power consumption in use (maximum) in standby</td>
<td>140 W</td>
<td>160 W</td>
<td>180 W</td>
</tr>
<tr>
<td>Screen size (inches measured diagonally)</td>
<td>40</td>
<td>46</td>
<td>52</td>
</tr>
<tr>
<td>Display resolution</td>
<td>1,920 dots (horizontal) × 1,080 lines (vertical)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speaker/Full range (2) (mm) (inches)</td>
<td>35 × 175</td>
<td>44 1/4 × 22 × 7 1/4</td>
<td></td>
</tr>
<tr>
<td>Dimensions (W × H × D)(mm)</td>
<td>987 × 684 × 271 38 7/8 × 27 × 10 3/4</td>
<td>1,123 × 722 × 323 44 1/4 × 30 1/2 × 12 3/4</td>
<td>1,262 × 871 × 362 49 3/4 × 34 1/8 × 14 3/8</td>
</tr>
<tr>
<td>with stand (mm) (inches)</td>
<td>987 × 638 × 104 38 7/8 × 25 1/8 × 4 1/8</td>
<td>1,123 × 725 × 107 44 1/4 × 28 5/8 × 4 1/4</td>
<td>1,262 × 823 × 115 49 3/4 × 32 1/2 × 4 5/8</td>
</tr>
<tr>
<td>wall-mount hole pattern (mm)</td>
<td>300 × 300</td>
<td></td>
<td></td>
</tr>
<tr>
<td>wall-mount screw size (mm)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mass with stand (kg) (lb.)</td>
<td>19.2 42.3</td>
<td>25.9 57.1</td>
<td>33.8 74.5</td>
</tr>
<tr>
<td>without stand (kg) (lb.)</td>
<td>17.5 38.6</td>
<td>23 50.7</td>
<td>29.2 64.4</td>
</tr>
<tr>
<td>Supplied accessories</td>
<td>Remote control RM-YD028 (1) / Size AA batteries (2) / AC power cord (1) / Cable holder (1 attached to the TV) / Operating Instructions (1) / Quick Setup Guide (1) / Warranty Card (1) / Safety and Regulatory Booklet (1) / Attaching the Table-Top stand flyer (1) / Screws (4) (For KDL-52VE5 the screws are attached)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Optional accessories</td>
<td>Connecting cables / Wall-Mount Bracket: SU-WL500 see page 2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Optional accessories availability depends on its stock.
* Design and specifications are subject to change without notice.
Index

0-9 buttons 13

A
AUDI0 OUT 7
AUDI0 OUT jack, described 7
Auto Program 11

B
BRAVIA Sync buttons 12

C
CABLE/ANTENNA input, described 8
CC button 12
CH +/- button 13, 14
Channels
  Setting up 11
COMPONENT IN (1080p/1080i/720p/480p/480i) 7

D
DISPLAY button 12

E
Energy Saving Switch 19
ENT button 13

F
Favorites 15
FAVORITES button 12

H
HDMI IN jack, described 8

I
Infrared Receiver (IR) 14
INPUT button 13, 14

J
JUMP button 13

M
MENU button 12, 14
MUTING button 13

P
PC IN 8
PIC OFF/TIMER LED 14
POWER button 13, 14
POWER LED 14
Presence Sensor 14, 19

R
RETURN button 12

S
STANDBY LED 14

T
Troubleshooting 21

U
USB 8

V
VIDEO/AUDIO (L/R) jacks, described 7, 8
VOL +/- button 13, 14

W
WIDE button 12
# For Your Convenience

<table>
<thead>
<tr>
<th><strong>Online Reference Book:</strong></th>
<th>To learn more about your TV, visit the online Reference Book at:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="http://www.sony.com/referencebook">http://www.sony.com/referencebook</a></td>
</tr>
<tr>
<td><strong>Online Registration:</strong></td>
<td>Be sure to register your TV.</td>
</tr>
<tr>
<td>United States</td>
<td><a href="http://productregistration.sony.com">http://productregistration.sony.com</a></td>
</tr>
<tr>
<td>Canada</td>
<td><a href="http://www.SonyStyle.ca/registration">http://www.SonyStyle.ca/registration</a></td>
</tr>
</tbody>
</table>