

LCD Digital Color TV



Operating Instructions

KDL-40XBR6 KDL-46XBR6 KDL-52XBR6





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. | Sony Wall-Mount Bracket Model No. |
| | O = T + T |

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.

Declaration of Conformity

Trade Name: SONY Model: KDL-40XBR6/KDL-46XBR6/ KDL-52XBR6 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.

NOTIFICATION

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 encouraged 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.

For Customers in Canada

This Class B digital apparatus complies with Canadian ICES-003.

CAUTION

Use the following Sony TVs only with the following WALL-MOUNT BRACKET or TV-stand.

| | Sony TV Model No. | | | |
|--|-------------------|----------------|----------------|--|
| | KDL- 40XBR6 | KDL- 46XBR6 | KDL- 52XBR6 | |
| Sony Wall-Mount Bracket Model No. | | | | |
| Sony TV | WS-S10LS | | | |
| Stand Model No. | SU-F | L71M | - | |

Use with other WALL-MOUNT BRACKETS or TV stands may cause instability and possibly result in injury.

To Customers

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

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.

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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

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The TV Guide On Screen system is manufactured under license from Gemstar-TV Guide International, Inc. and/or one of its affiliates.

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HOMI



For Customers in the United States

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).

Welcome to the World of BRAVIA®

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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 Thank you for purchasing this Sony BRAVIA® high-definition television. 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.

To learn more about HDTV, visit: U.S.A. http://www.sony.com/HDTV Canada http://www.sonystyle.ca/hd

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 proper setup connections. This manual explains basic setup connections (see page 12). The Quick Setup Guide, enclosed separately, illustrates how to connect other optional equipment.

Picture Quality and Aspect Ratio

You can enjoy crisp, clear images, smooth movement and high-impact visuals from 1080 HD signals. When you compare a high-definition signal to a standard analog signal, you will notice a big difference.

High-definition and standard-definition signals are transmitted with different aspect ratios (the width-to-height ratio of the image). HDTV uses a wider screen than conventional standard-definition TV.



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

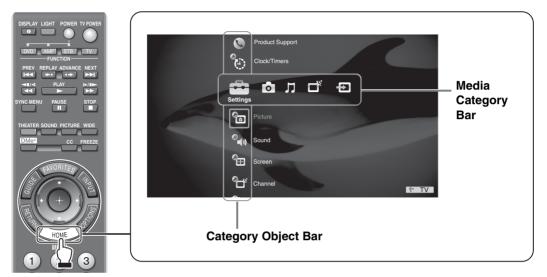
Most standard-definition signals use a boxy 4:3 aspect ratio. When a 4:3 image is displayed on an HDTV, you will see black bars on the sides. The picture quality may not be as sharp as with HD sources.

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• You can use the **Wide Mode** function of the TV to adjust the 4:3 image to fit the entire screen (see pages 21, 44 and 45).

TV Home Menu: XMB™ (XrossMediaBar)

The **XMB**[™] is an easy way to access the TV settings for customizing, making adjustments, viewing the available TV channels, photo and music files, and selecting connected equipment. Press the **HOME** button on your remote control to display the **XMB**[™].



From the horizontal Media Category Bar you can control:

- **Settings**: adjust timer, picture, sound, screen and other options (see page 40 for customization options).
- **Photo**: view photo files via USB or compatible DLNA Certified[™] equipment (see page 30).
- Music: listen to music files via USB or add music to a slideshow (see page 32).
- TV Channels: access TV Guide On Screen[™] and available channels.
- **External Inputs**: select cable, satellite, VCR, DVD players or other optional equipment can also be selected from the vertical Category Object Bar from the **External Inputs**.

Your BRAVIA TV is Energy Star Compliant. It meets strict energy efficiency guidelines set by the EPA and US 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 stay within the Energy Star guidelines.
- Changes to certain features, settings, and functionalities of this TV (i.e. TV guide, 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.

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• This manual is for the 40, 46 and 52 inch **BRAVIA** KDL-XBR6 series models with screen size measured diagonally.

Getting Started

1. Installing the TV

This TV can be mounted on a wall using a Wall-Mount Bracket or placed on a TV stand (each sold separately). This section will explain:

- How to carry the TV
- Preparation for a Table-Top stand
- Preparation for a Wall-Mount Bracket
- Installation against a wall or enclosed area
- Bundling the connecting cables
- Securing the TV

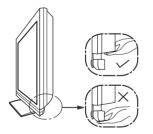
Carrying the TV

Be sure to follow these guidelines to protect your property and avoid causing serious injury.

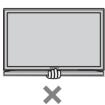
- Before carrying the TV, disconnect all cables.
- Carrying the large size TV requires two or more people.
- When carrying the TV, place your hand as illustrated and hold it securely. Do not subject the TV to shocks, vibration, or excessive force.



• Lift the TV by placing your palm directly underneath the panel but do not put stress on the LCD panel.



• Do not lift the TV from the bottom center.

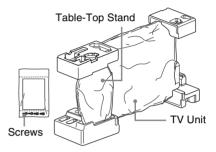


Preparation for Table-Top Stand

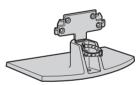
Follow the assembling steps required to place on a TV stand (except model, KDL-52XBR6).

1 Remove the Table-Top Stand and screws from the carton. The screws can be found in the accessory bag.

For product protection and safety reasons, Sony strongly recommends that you use the screws provided with the TV.



2 Place the Table-Top Stand on a level and stable surface.



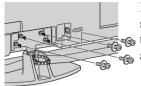
3 Gently slide the TV unit onto the neck of the Table-Top Stand and align the screw holes.



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- Do not put stress on the LCD panel or the frame around the screen.
- Be careful to not pinch your hands or the AC power cord when you install the TV unit to the Table-Top Stand.

4 Use the supplied screws to attach the TV unit to the Table-Top Stand (refer to the "Attaching the Table-Top Stand" flyer).



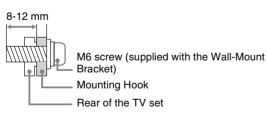
If an electric screwdriver is used, set the torque to tighten at proximately 1.5 N·m, 15 Kgf·cm.

Preparation for Wall-Mount Bracket

All models are ready to be mounted on a wall.

- For product protection and safety reasons, Sony strongly recommends that you use the Wall-Mount Bracket model designed for your TV and the wall-mounting of your TV should be performed by a Sony dealer or licensed contractor.
- Sufficient expertise is required in installing this TV, especially to determine the strength of the wall for withstanding the TV's weight.
- Be sure to use the screws supplied with the Wall-Mount Bracket when attaching the mounting hooks to the TV set.

The supplied M6 screws are designed so that they are 8 mm to 12 mm in length when measured from the attaching surface of the mounting hook. The diameter and length of the screws differ depending on the Wall-Mount Bracket model. Use of screws other than those supplied may result in internal damage to the TV set or cause it to fall, etc.



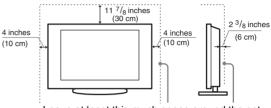
• Be sure to store the unused screws and Table-Top Stand in a safe place until you are ready to attach the Table-Top Stand. Keep the screws away from small children.

For details on how to use the Wall-Mount Bracket compatible with your model, visit www.sony.com/accessories Or call 1-800-488-7669 (for United States) 1-877-899-7669 (for Canada)

When Installing the TV Against a Wall or Enclosed Area

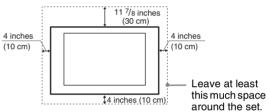
Make sure that your TV has adequate air circulation. Allow enough space around the TV as shown below. Avoid operating the TV at temperatures below 41 °F (5 °C).

Installed with stand



Leave at least this much space around the set.

Installed on the wall

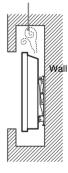


Never install the TV set as follows:

Air circulation is blocked.

Air circulation is blocked.





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• Inadequate air circulation can lead to overheating of the TV and may cause damage to your TV or cause a fire.

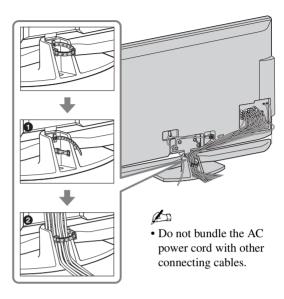
Consider the following for best picture quality

- Do not expose the screen to direct illumination or sunlight.
- Use spot lighting directed down from the ceiling or cover the windows that face the screen with opaque drapery.
- Install the TV in a room where the floor and walls are not of a reflective material.

• When moving the TV from a cold area to a warm area, a sudden room temperature change may cause the TV's picture to blur or show poor color due to moisture condensation. Should this occur, please wait a few hours to allow the moisture to evaporate before powering on the TV.

Bundling the Connecting Cables

You can bundle the connecting cables as illustrated below.



Getting Started

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.

Prevent the TV from Toppling Over

- $\hfill\square$ Secure the TV to a wall and/or stand.
- □ Do not allow children to play or climb on furniture and TV sets.
- □ Avoid placing or hanging items on the TV.
- \Box Never install the TV on:
 - slippery, unstable and/or uneven surfaces.
 - furniture that can easily be used as steps, such as a chest of drawers.
- □ Install the TV where it cannot be pulled, pushed, or knocked over.
- □ Route all AC power cords and connecting cables so that they are not accessible to curious children.

Use a Sony TV Stand

Use a Sony specified TV stand (see page 2) and follow the instruction manual provided with the Sony TV stand.

If a Sony specified TV stand is not used, consider the following recommended measures.

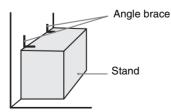
Recommended Measures to Secure the TV

Secure the Stand for the TV

Make sure the TV stand can adequately support the weight of the TV. Use two angle braces (not supplied) to secure the stand.

For each angle brace use the appropriate hardware to:

- attach one side of the angle brace to the wall stud.
- attach the other side to the TV stand.



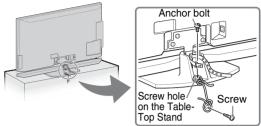
Secure the TV to the Stand

Use the optional hardware listed below (not supplied):

- M6 × 10-12 mm anchor bolt (screwed into the TV's Table-Top Stand)
- A screw or similar (attach it to the TV stand)

• Rope or chain (strong enough to support the weight of the TV). Make sure that there is no excess slack in the rope or chain.

An alternative way to secure the TV is with an optional Sony Support Belt Kit.



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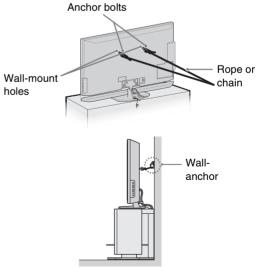
Contact Sony Customer Support to purchase the optional Support Belt Kit by providing your TV model name.

- For United States call: 1-800-488-7669 or visit: www.sony.com/accessories
- For Canada call: 1-877-899-7669

Anchor the TV to the Wall

Use the hardware listed below (not supplied):

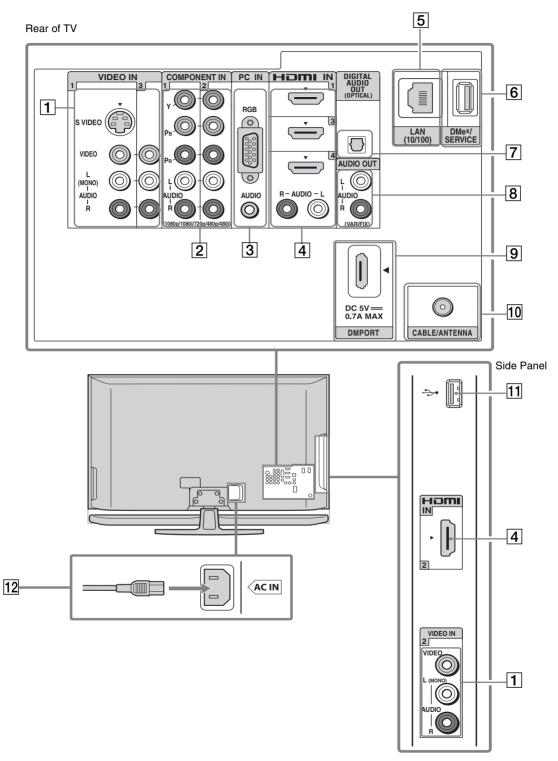
- Two M6 × 10-12 mm anchor bolts (screw into the top-most wall-mount holes located on the rear of the TV)
- Rope or chain (attach to one M6 anchor bolt)
- Wall-anchor (attach to the wall stud) strong enough to support the weight of the TV (pass the rope through the wall-anchor, then attach to the other M6 anchor bolt)



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• Securing the TV to the stand without securing it and the stand to the wall provides minimum protection against the TV toppling over. For further protection, follow all three measures recommended above.

2. Locating Inputs and Outputs



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- This TV displays all video input signals in a resolution of 1,920 dots × 1,080 lines.
- An HDMI or Component video (YP_BP_R) connection is required to view 480i, 480p, 720p, 1080i and 1080p video formats. 1080/24p is available only with HDMI connection.

| Item | | Description |
|------|--|---|
| 1 | VIDEO IN 1 S VIDEO | Connects to the S VIDEO output jack of video equipment. If both composite video and S VIDEO are connected, S VIDEO signal has priority. |
| | VIDEO IN 2/3 VIDEO/L(MONO)- AUDIO-R | Connects to the composite video and audio output jacks on your A/V equipment. If you have mono equipment, connect its audio output jack to the TV's L (MONO) |
| | | audio input jack. |
| 2 | COMPONENT IN 1/2 (1080p/1080i/ 720p/480p/480i)/ L-AUDIO-R | Connects to your equipment's component video $(YP_{B}P_{R})$ and audio (L/R) jacks. |
| 3 | PC IN (RGB/AUDIO) | Connects to a personal computer's video and audio output connector (see page 14). Can also be connected to other analog RGB equipment. See "PC Input Signal Reference Chart" on page 14 for the signals that can be displayed. |
| | | |
| | | • For some Apple Macintosh computers, it may be necessary to use an adapter (not supplied). If this is the case, connect the adapter to the computer before connecting the HD15-HD15 cable. |
| | | • If the picture is noisy, flickering or not clear, adjust Phase and Pitch of Screen settings on page 45. |
| 4 | HDMI IN 1/2/3 | HDMI (High-Definition Multimedia Interface) provides an uncompressed, all-digital audio/video interface between this TV and any HDMI-equipped A/V equipment. HDMI supports enhanced, or high-definition video, plus digital audio. |
| | HDMI IN 4 R-AUDIO-L | If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to the HDMI IN 4 (with DVI-to-HDMI cable or adapter) jack, and connect the audio jack to the AUDIO IN (L/R) jacks of HDMI IN 4. |
| | | ₽D |
| | | • Be sure to use only an HDMI cable that bears the HDMI logo. |
| | | • When connecting a DVI-equipped PC to an HDMI jack, also connect an Audio cable between the PC and R-AUDIO-L jack. |
| | LAN (10/100) | Connects to a Local Area Network using an Ethernet cable. You can use this connection to connect to a network, receive software updates and enjoy photos from the Internet (see page 30). |
| 6 | DMe ^x / SERVICE | This USB port is for service only unless you are connecting the optional BRAVIA external module (DMe^x). |
| 7 | DIGITAL AUDIO OUT (OPTICAL) | Connects to the optical audio input of your digital audio equipment that is PCM/Dolby* Digital compatible. |
| 8 | AUDIO OUT (VAR/FIX) | Connects to the left and right audio input jacks of your analog audio equipment. You can use these outputs to listen to your TV's audio through your stereo system. |
| 9 | DMPORT | Connects to devices via a DIGITAL MEDIA PORT interface (not supplied) and displays photos or plays videos and music directly onto the TV from some DIGITAL MEDIA PORT equipment. Some devices can be controlled with the TV's remote control (see page 25). |
| 10 | CABLE/ ANTENNA | RF input that connects to your cable or VHF/UHF antenna. |
| 11 | USB | Connects to USB equipment to access photo files and music files (see page 29). |
| 12 | AC IN | Connects to your power source. Connect the supplied power cord to AC IN and the nearest wall outlet. |

* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

3. Connecting the TV

Cable System or VHF/UHF Antenna System

You can enjoy high-definition and standarddefinition digital programming (if available in your area) along with standard-definition analog programming.

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- This TV is capable of receiving unscrambled digital programming for both cable (QAM and 8VSB) and external VHF/UHF antenna (ATSC).
- It is strongly recommended that you connect the CABLE/ANTENNA input using a 75-ohm coaxial cable to receive optimum picture quality. A 300-ohm twin lead cable can be easily affected by radio frequency interference, resulting in signal degradation.

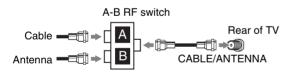
Cable or VHF/UHF (or VHF only)



CABLE/ANTENNA

Cable System and VHF/UHF Antenna System

Use an optional A-B RF switch (not supplied) to switch between the cable and over-the-air antenna programming, as indicated below.



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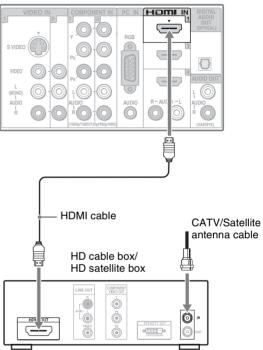
• Be sure to set the **Signal Type** setting to **Cable** or **Antenna** in the **Channel** settings for the type of input signal you choose (see page 46).

HD Cable Box/HD Satellite Box

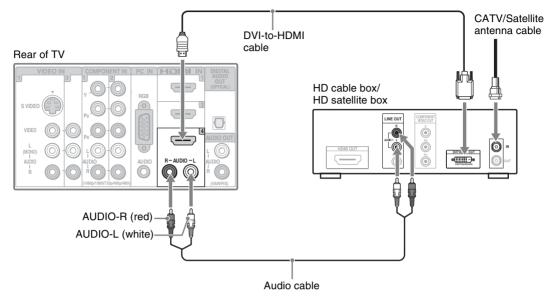
You can enjoy high-definition programming by subscribing to a high-definition cable service or a high-definition satellite service. For the best possible picture, make sure you connect this equipment to your TV via the HDMI or component video (with audio) input on the back of your TV.

Shown with HDMI Connection

Rear of TV

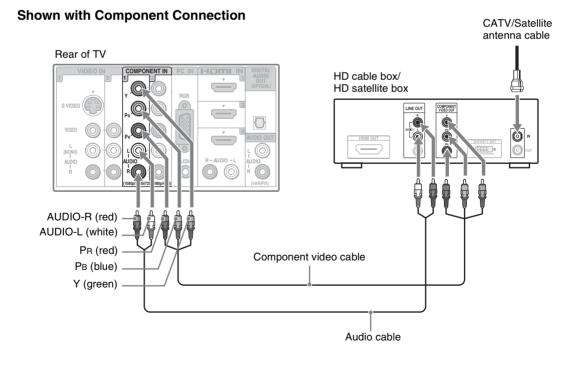


Shown with DVI Connection



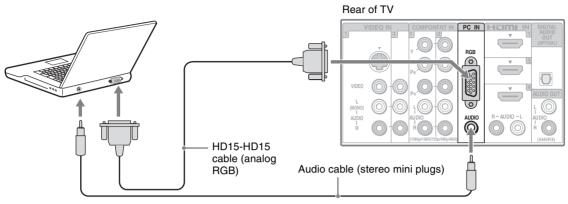
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• If the equipment has a DVI jack and not an HDMI jack, connect the DVI jack to the HDMI IN 4 (with DVI-to-HDMI cable or adapter) jack and connect the audio jack to the AUDIO IN (L/R) jacks of HDMI IN 4. For details, see page 11.



PC

Use the TV as a monitor for your PC by connecting a HD15-HD15 cable as shown below. This TV can also be connected to a PC with a DVI or HDMI output. (Refer to the separate Quick Setup Guide.)



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- Connect the PC IN jack to the PC using an HD15-HD15 cable with ferrite core (analog RGB) and audio cable (see page 11).
- If the PC is connected to the TV and no signal has been input from the PC for more than 30 seconds, the TV enters the standby mode automatically (see page 52).

PC Input Signal Reference Chart

After connecting the PC to the TV, set the output signal from the PC according to the supported resolutions and timings indicated below.

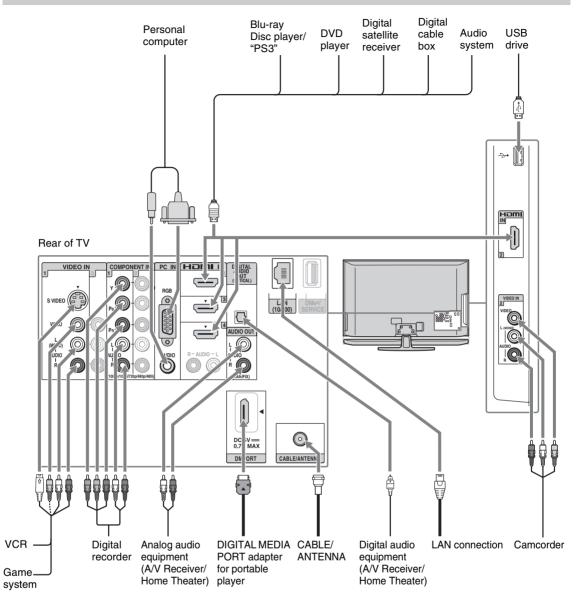
| Supported resolutions | | | | l la si a su ta l | Vertical | Ctondord |
|-----------------------|-----------------------|---|--------------------|--|----------------------------|-----------------|
| Signal | Horizontal (Pixel) | × | Vertical (Line) | Horizontal frequency (kHz) | Vertical frequency (Hz) | Standard |
| VGA | 640 | × | 480 | 31.5 | 60 | VGA |
| | 640 | × | 480 | 37.5 | 75 | VESA |
| | 720 | × | 400 | 31.5 | 70 | VGA-T |
| SVGA | 800 | × | 600 | 37.9 | 60 | VESA Guidelines |
| | 800 | × | 600 | 46.9 | 75 | VESA |
| XGA | 1,024 | × | 768 | 48.4 | 60 | VESA Guidelines |
| | 1,024 | × | 768 | 56.5 | 70 | VESA |
| | 1,024 | × | 768 | 60.0 | 75 | VESA |
| WXGA | 1,280 | × | 768 | 47.4 | 60 | VESA |
| | 1,280 | × | 768 | 47.8 | 60 | VESA |
| | 1,280 | × | 768 | 60.3 | 75 | |
| | 1,360 | × | 768 | 47.7 | 60 | VESA |
| SXGA | 1,280 | × | 1,024 | 64.0 | 60 | VESA |
| HDTV | 1,920 | × | 1,080 | 67.5 | 60 | CEA-861* |

Þ

- 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.
- Your PC must support one of the above PC input signals to display on the television.
- For the best picture quality, it is recommended to use the signals (boldfaced) in the above chart with a 60 Hz vertical frequency. In plug and play, signals with a 60 Hz vertical frequency will be detected automatically. (PC reboot may be necessary.)

* The 1080p timing when applied to the HDMI input will be treated as a video timing and not PC timing. This affects **Picture** settings, **Wide Mode** settings, and **PIP** function. To view PC content set **Picture Mode** to **Custom**, **Wide Mode** to **Full**, and **Display Area** to **Full Pixel**.

Other Equipment



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• Refer to the Quick Setup Guide (supplied) when connecting other equipment to your TV.

4. Setting Up the Channel List – Initial Setup

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



- 1 Complete your cable connections (refer to the preceding pages and the Quick Setup Guide provided separately) before proceeding with the **Initial Setup**.
- 2 Use the remote control to navigate through the **Initial Setup**:



▲/♥ 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.

3 Follow the help text provided on the screen to run Auto Program. Auto Program will scan for available channels from the signal source directly connected to the TV's CABLE/ANTENNA input.

If you receive channels from a cable box or satellite receiver without using the CABLE/ ANTENNA input (e.g. using HDMI or component input), skip **Auto Program**.

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• If you select **Skip**, you will be asked to disable **Channel Tuning Keys** to avoid accidental input change while using an external input; see page 50 for details.

- If the language that you have selected in the Language setting is available from the broadcaster as an Alternate Audio language, your TV will automatically switch to the matching language with the Alternate Audio feature. The Alternate Audio option may be accessed by pressing OPTIONS on the remote control when an alternate audio stream is available from the broadcaster. Alternate Audio is only available for digital programs (see page 44).
- **4** Set the date and time.

Begin your TV Guide On Screen Setup

When the **Initial Setup** is completed, the TV will display this screen and prompt you to set up the electronic program guide. Follow the on screen instructions using your remote control.



Next, you will see a confirmation screen with instructions on how to acquire the TV Guide On Screen service.

- The service is free of charge.
- Your TV acquires program listing information while your TV is turned off.
- Allow 24 hours (some areas may take longer) for the TV to fully receive the program listing information.
- Once the program information is obtained by the TV, you will be able to view a guide of up to two days of TV programming. See page 34 on how to use the TV Guide On Screen.

□ To Display TV Guide On Screen Press GUIDE.



□ To Run Initial Setup Again or Auto Program at a Later Time

Select the **Initial Setup** feature from the **XMB**_{TM} or perform the steps described in the **Initial Setup** section on page 52. To run **Auto Program**, see page 46.



□ To Add Digital Channels

Use the **Add Digital Channels** feature as described on page 46. (Useful for antenna installations.)

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- If you accidentally turn off the TV during the **Initial Setup** process, the **Initial Setup** will restart from the beginning when the TV is turned back on.
- Auto Program may be canceled while the channels are being scanned. Press **RETURN** first, then press either *←*/*→* on the remote control. Select **Yes** to cancel or **No** to resume **Auto Program**.

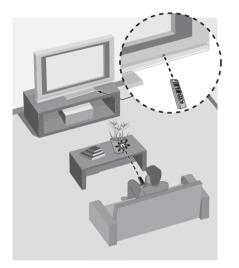
Operating the TV

Inserting Batteries into the Remote Control

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



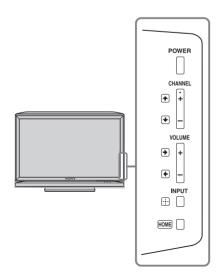
When Using the Remote Control



Follow the guidelines below

- 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



The buttons located on the side of the TV operate the same as the corresponding buttons on the remote control.

Remote Control Button Description

| 1 2 3 4 | DISPLAY LIGHT POWER TV POWER |
|------------------|---|
| 5— | |
| | HOME MENU 1 2 3 4 5 6 7 8 9 |
| | VOL CH MUTING + JUMP |
| | |
| | SONY |

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• The **5**, **PLAY** and **CH+** buttons have a tactile dot. Use them as a reference when operating the TV.

| Button | Description |
|---|---|
| 1 DISPLAY | Press once to display the banner with channel/program information you are watching. The banner will time out in about 10 seconds or press again to exit. You can select the banner size based on the amount of information. See Info Banner on page 51. |
| 2 LIGHT | Press to light up the remote control buttons. The FUNCTION button indicator light will light up in red for the device mode the remote control is operating and other buttons will light up in blue (see page 25). |
| 3 FUNCTION Buttons | The FUNCTION button indicator lights up momentarily when pressed to show which external equipment the remote control is operating. These buttons can be programmed to operate external equipment. You must first press one of these FUNCTION buttons to operate the corresponding equipment. See page 25 for "Programming the Remote Control". |
| 4 Equipment Control/ BRAVIA Sync | The buttons listed below can operate video equipment programmed to the DVD , AMP , or STB FUNCTION buttons of the remote control. When the TV FUNCTION button is selected, the buttons can also be used to control the connected equipment with the Control for HDMI function (not available on all Control for HDMI equipment). |
| | I PREV: Press to replay the current program from the previous chapter mark (if any) or from the beginning of the live TV cache. REPLAY: Press to replay the current program for a set period of time. ADVANCE: Press to advance forward a set period of time when playing back a recorded program. I NEXT: Press to advance forward to the next chapter mark (if any) or to live TV when playing back a recorded program. I NEXT: Press to advance forward to the next chapter mark (if any) or to live TV when playing back a recorded program. I (fast reverse): Press to play a program in fast rewind mode. PLAY: Press to play a program at a normal speed. (fast forward): Press to play a program in fast forward mode. STOP: Press to stop playback. STOP: Press to stop playback. STOP: Press to stop playback. SPNC MENU: Press once to display the Sync'd HDMI Devices (while a Control for HDMI device is not selected). Select the HDMI device and then press SYNC MENU to display the menu of connected equipment (not available on all Control for HDMI equipment). 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 of your BRAVIA Sync audio system. Your BRAVIA Sync audio system must be connected by an HDMI connection to your TV (see page 36 for details). |
| 5 SOUND | Press to cycle through different sound settings: Dynamic , Standard , Clear Voice . The sound modes can also be accessed in the Sound settings. For details, see Sound settings on page 43. |
| 6 DMe ^x | Press to access features in the optional BRAVIA external module (e.g. DMX-NV1). See your dealer or www.sony.com/bravia for more information. The module may not be available in all regions. |
| | (Continued) |

(Continued)

| Button | Description |
|--------|-------------|
| | |

7 FAVORITES Press once to display the **Favorites** menu. Press again to exit from the **Favorites** menu. See page 28 for detailed information.



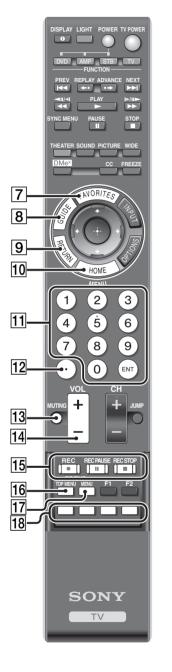
8 GUIDE Press to open the TV Guide On Screen system. Press again to exit the Guide. For instructions on using a specific menu, see "How to Use TV Guide On Screen" on page 34.



- **9** RETURNPress to go back to the previous screen or exit from the
screen when displaying menu items and settings.**10** HOMEPress to display the TV Home Menu/XMB_{TM} to access the
 - **TV Home Menu** items such as the TV **Settings**, **Photo**, **Music**, **TV** channels and **External Inputs** list (see pages 5 and 38).



| 11 0-9 ENT | Press 0-9 to select a channel; the channel changes after two seconds. Press ENT to change channels immediately. | |
|---------------------------------|---|--|
| 12 🕢 | Use with 0-9 and ENT to select digital channels. For example, to enter 2.1, press (2) , (\cdot) , (\uparrow) and ENT . | |
| 13 MUTING | Press to mute the sound. Press again or press VOL + to restore the sound. | |
| 14 VOL +/- | Press to adjust the volume. | |
| 15 DVR/VCR Record Buttons | REC: Press to record. Pressing this button alone starts the recording process. II REC PAUSE: Press to pause recording. REC STOP: Press to stop recording. | |
| 16 BD/DVD TOP MENU | Press to display the top menu of the BD/DVD disc. | |
| 17 BD/DVD MENU | Press to display the BD/DVD disc menu. | |
| | • For more information, refer to the operating manual of the connected equipment. | |
| 18 Red, Green, Blue, Yellov | | |



| - | _ | | |
|------------|-------------|--|--|
| | Button | Description | |
| | 19 TV POWER | Press to turn on and off the TV | |
| | 20 POWER | Press to turn on and off the ext FUNCTION buttons. | ernal equipment selected by |
| R TV POWER | 21 WIDE | Press repeatedly to cycle throu Mode settings: Wide Zoom, Zoom. The Wide Mode setti the Screen settings (see pages Changing the Wide Scr | Normal , Full , H Stretch , ngs can be also accessed in s 44 and 45). |
| | | 4:3 Original source | 16:9 Original source |
| ICE NEXT | | Standard-definition source | High-definition source |
| | | ♦ Wide Zoom | ↓ Wide Zeem |
| | | Normal | Wide Zoom |
| | | | Normal This mode is not available. |
| Salar | | Full | Full |
| | | H Stretch | H Stretch |
| 3 | | This mode is not available. | Zoom |
| 9 ENT | | | |
| | | Normal is available with 486 H Stretch is only available view 1080/24p sources. | with 720p, 1080i, 1080p and |
| REC STOP | | Changing the Wide Scr Timing | |
| | | Incoming PC signal | Incoming PC signal |
| | | 800 × 600 | 1,280 × 768 |
| | | ↓ | ↓ |
| Y | | Normal | Normal |
| | | Full 1 | Full 1 |
| | | Full 2 | Full 2 |

DISPLAY LIGHT POWER TV

PAUSE

MENU 2

5 8

0

SONY

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1 4 7

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| Button | Description | |
|--|---|---|
| 22 PICTURE | Press repeatedly to cycle through the available picture modes: Vivid, Standard, Cinema, Custom, Photo-Vivid, Photo-Standard, Photo-Original, Photo-Custom, Video, Text. (Available options depend on the current mode.) The picture modes can also be accessed in the Picture settings. For details, see Picture settings on page 41. | |
| 23 FREEZE | Press once to display a frozen image with the current program in a window. Press again to fill the screen with the frozen image. Press a third time to return to the current program. | |
| | Current program | Frozen picture |
| | Press the ↑ / ↓ / ↓ / ↓ to move the current program to a different | |
| | With the Freeze feature active While the Freeze feature is deactivate Freeze and display | active, pressing HOME wil |
| 24 CC | Press to cycle through the ava Captions (CC) : On , Off , an | |
| 25 INPUT | Press to display the list of External Inputs and TV mode. Press repeatedly to toggle through the inputs. | |
| _ | | |
| 26 | Press $A/\Phi/\Phi$ to move focus, confirm an item. | /highlight. Press (+) to selec |
| 26 ↑/ √/ √ /→ ÷ 27 OPTIONS | | |
| | confirm an item. Press to display a list of conversion conversion of the | enient functions and menu |
| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 |
| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 |
| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 See page 37 |
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| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 See page 37 See page 37 See page 37 See page 44 |
| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 See page 37 See page 37 See page 44 See page 37 See page 37 See page 45 |
| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 See page 37 See page 37 See page 44 See page 37 See page 44 See page 37 See page 45 See page 28 |
| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 See page 37 See page 37 See page 44 See page 37 See page 44 See page 45 See page 28 See page 44 |
| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 See page 37 See page 37 See page 44 See page 45 See page 45 See page 28 See page 44 See page 44 See page 44 |
| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 See page 37 See page 37 See page 44 See page 44 See page 45 See page 45 See page 44 See page 44 See page 44 See page 44 See page 44 See page 48 See page 29 See page 42 |
| | confirm an item. Press to display a list of conversion of the shortcuts. The OPTIONS me current input and content. Menu Item Picture Adjustments Sound Adjustments P&P or PIP Exit P&P or Exit PIP Speakers Audio Swap Screen Add to Favorites/ Remove from Favorites MTS Alternate Audio Digital Rating Background TV Motion Enhancer Device Control | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 See page 37 See page 37 See page 44 See page 44 See page 45 See page 45 See page 44 See page 44 See page 44 See page 44 See page 48 See page 29 See page 42 See page 50 |
| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 See page 37 See page 37 See page 37 See page 44 See page 44 See page 45 See page 45 See page 44 See page 44 See page 44 See page 48 See page 48 See page 29 See page 42 See page 50 See page 36 |
| | confirm an item. Press to display a list of conversion of conve | enient functions and menu nu items vary based on Reference Page See page 41 See page 43 See page 37 See page 37 See page 44 See page 44 See page 45 See page 45 See page 44 See page 44 See page 44 See page 44 See page 44 See page 48 See page 42 See page 50 |

• The **Digital Rating** and **Alternate Audio** options will appear in Options only when digital ratings or alternate audio streams are available in the currently tuned digital program.

DISPLAY

PAUSE

MENU 2

5

8

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SONY

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4

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REC

EEZ

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(3)

6

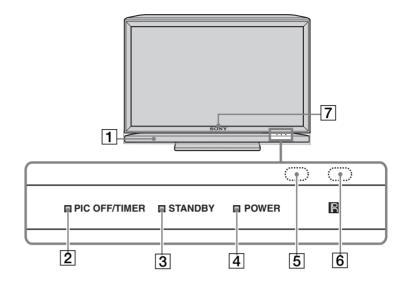
9

ENT

| Button | Description | |
|-----------|--|--|
| 28 JUMP | Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected. | |
| | | |
| 29 CH +/- | Press to scan through channels. To scan quickly through channels, press and hold down either +/- . | |
| 30 F1/F2 | Press to select the function of connected components. For details, see "Using Other Equipment with Your Remote Control" on page 27. | |



Indicators



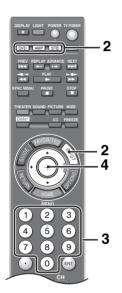
| Item | Description | |
|-----------------------------|--|--|
| 1 Speaker | Outputs the audio signal. | |
| 2 PIC OFF/ TIMER LED | Lights up in green when the Picture Off feature is activated. Lights up in orange when the timer is set. When the timer is set, this LED will remain lit even if the TV is turned off. For details, see page 40 (Timer) and page 52 (Picture Off). | |
| 3 STANDBY LED | Lights up in red when your TV is in PC standby mode. If the LED blinks in red continuously, this may indicate that the TV needs servicing (see contacting Sony information on the back cover). | |
| 4 POWER LED | Lights up in green when the TV is turned on. | |
| 5 Light Sensor | Senses room light level and adjusts the screen brightness accordingly (see page 52 for details). Do not put anything near the sensor or the nearby general area (as shown above), as its function may be affected. | |
| 6 (IR) Infrared Receiver | Receives IR signals from the remote control. Do not put anything near the sensor, as its function may be affected. | |
| 7 SONY Logo | The Sony logo will illuminate when the TV is powered on. You can turn off the logo illumination, for details see page 52. | |

Programming the Remote Control

The remote control can be programmed to operate other equipment and is pre-programmed to operate the following Sony equipment.

| Function Button | Sony Equipment | Code Number |
|------------------------|-------------------|-------------|
| DVD | DVD Player | 31033 |
| AMP | Receiver | 52172 |
| STB | Digital Satellite | 01639 |

Programming Other Equipment



Follow the steps below to program your TV remote control.

- **1** Find the code that corresponds to your equipment from page 26. If more than one code is provided, try programming the first code listed.
- Press and hold DVD, AMP or STB simultaneously with the INPUT button and release. When in the programming mode, the FUNCTION button blinks for approximately 30 seconds until a code is entered.
- **3** Enter the five digit code using **0-9**. while the **FUNCTION** button is lit. If the code is not entered within 30 seconds, you must repeat step 2.
- Press (+) or ENT to confirm the code. If successfully programmed, the FUNCTION button blinks twice; if not, it blinks five times.

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• Any of the **FUNCTION** buttons can be programmed to operate other equipment regardless of the labeling. For example, **DVD** can be programmed to operate a Bluray player.

Confirm the Programming

If you can turn your equipment on and off using the green **POWER** button, the programming is complete. If not, try the next code listed.

Þ

• In some cases, you may not be able to program your remote control. If this is the case, use your equipment's own remote control.

Auto Backlight

The backlight can be set to light up when a button is pressed.

To set backlight:

Press **LIGHT** and **MUTING** simultaneously until the four **FUNCTION** buttons blink red.

To turn off backlight:

Press **LIGHT** and **MUTING** until the **TV** button blinks red.

Backlight Time Out

The remote control can be set to remain lit longer than the default time setting of approximately five seconds with the **FUNCTION** buttons.

To change backlight time setting:

- 1 Press LIGHT, VOL+, and then CH+ simultaneously until the FUNCTION button blinks red.
- Select the FUNCTION button that corresponds to your preferred time out setting and press (+).

| DVD 5 seconds (default) | AMP 10 seconds |
|--------------------------------|----------------------|
| STB 15 seconds | TV 20 seconds |

Reset the Remote Control

To reset the remote control to the factory default settings, press **SOUND**, **TV POWER**, and then (+). The **FUNCTION** buttons blink red simultaneously when successfully reset.

Manufacturer's Code List

If your equipment's code is not listed, visit

http://esupport.sony.com/remotecodes for a more comprehensive list.

Sony Equipment Codes

| Sony Equipment | Programmable |
|---------------------|----------------------|
| , | Code Number |
| AV Receiver | 52172 |
| Blu-ray Disc Player | 41516, 42178, 42180 |
| Cable -Digital | 02177 |
| DVD AV System | 51622, 51558, 51658, |
| | 51858 |
| DVD Changers | 31633 |
| DVD Player | 31033, 31069, 31070 |
| DVD/HDD Combo | 31033, 31069, 31070 |
| Player | |
| DVD/VCR Combo | 30864 |
| Player | |
| DVR /HDD Player | 22181, 22182, 22183 |
| Satellite | 01639 |
| VCR | 21232, 21546, 22184 |
| | |

Other Manufacturer Equipment Codes

HD Blu-ray Players

| Manufacturer | Code | |
|--------------|-------|--|
| LG | 40741 | |
| Panasonic | 41641 | |
| Philips | 42084 | |
| Pioneer | 40142 | |
| Samsung | 40199 | |

DVD Player

| Code |
|----------------------|
| 30778, 30852, 31077, |
| 31086, 31107, 31165, |
| 31177, 31351, 31628 |
| 30816, 30874, 31023, |
| 31024, 31117, 31129, |
| 31502, 31537 |
| 30699, 30769 |
| 30558, 30623, 30867, |
| 31164, 31550, 31602 |
| 30651, 30769, 30896, |
| 31061, 31423 |
| 30695, 30831, 31270 |
| 30490, 30503, 30571, |
| 30703, 31762 |
| 30503, 30539, 30646, |
| 30675, 31267, 31354, |
| 32056 |
| 30522, 30571, 30717, |
| 30790, 30822, 31022 |
| 30490, 30573, 30744, |
| 31044, 31075, 31470 |
| 30675, 31268 |
| 30503, 30539, 30573, |
| 30695, 31154, 31503, |
| 31588, 31608, 31854 |
| |

DVD Changers

| Manufacturer | Code |
|--------------|--------------|
| Sylvania | 30675 |
| Techwood | 30692 |
| Toshiba | 30503, 31154 |
| Yamaha | 30497, 30545 |
| Zenith | 30741 |

DVD Recorder

| Code |
|---------------------|
| 31129, 31502 |
| 31164 |
| 30741 |
| 31158, 31416, 31440 |
| 30490 |
| 30646 |
| 30490, 31470 |
| 30675 |
| 31588 |
| |

DVD/VCR Combo Units

| Manufacturer | Code |
|--------------|----------------------|
| JVC | 30867, 31164, 31550, |
| | 31602 |
| Broksonic | 30695, 31419 |
| Panasonic | 31762 |
| Toshiba | 30503, 31854 |
| Zenith | 30741, 30869 |

VCR's

| Manufacturer | Code |
|--------------|----------------------|
| Daewoo | 20037, 20045, 20046, |
| | 20278, 21137 |
| JVC | 20041, 20067, 21162 |
| Panasonic | 20000, 20035, 20162, |
| | 20225, 20226, 20614, |
| | 20616, 21062, 21162, |
| | 21262 |
| Philips | 20000, 20035, 20045, |
| | 20048, 20081, 20162, |
| | 20209, 20616, 20618, |
| | 20739, 21081, 21181 |
| Sylvania | 20000, 20035, 20043, |
| | 20081, 20593, 21593 |

A/V Receiver/Home Theater Systems

| Manufacturer | Code |
|--------------|----------------------|
| Audiovox | 30790, 51390 |
| Bose | 50674, 51229, 51933 |
| Denon | 50121, 51142, 51306, |
| | 51360, 52857 |
| Emerson | 50531 |
| JVC | 50331, 51495 |
| Koss | 30651 |
| LG | 51293 |
| Onkyo | 51298, 51320, 51805 |
| Panasonic | 50308, 51288, 51308, |
| | 51316, 51548, 51633, |
| | 51763, 51764 |
| Philips | 31267, 51189, 51266, |
| | 51269 |
| Pioneer | 50150, 50531, 50630, |
| | 50823, 51023, 51384 |
| RCA | 30790, 50531, 50823, |
| | 51023, 51254, 51390, |
| | 51511, 51609 |
| Samsung | 51295, 51500 |
| Sherwood | 31077, 51077, 51517, |
| | 51653 |
| Yamaha | 30497, 50176, 50354, |
| | 51023, 51276, 51331, |
| | 51376, 51815 |
| Zenith | 51293 |

Digital Video Recorders

| Manufacturer | Code |
|--------------|----------------------|
| TiVo | 01442, 01443, 01444, |
| | 20618, 20636, 20739 |

Satellite

| Manufacturer | Code |
|--------------|----------------------|
| DirecTV | 00099, 00247, 00392, |
| | 00566, 00639, 00749, |
| | 00819, 01076, 01108, |
| | 01109, 01142, 01377, |
| | 01392, 01414, 01442, |
| | 01442, 01443, 01444, |
| | 01609, 01639, 01640, |
| | 01749, 01856, 20739 |
| Dish Network | 00775, 01170, 01505, |
| System | 01775 |
| Echostar | 00775, 01170, 01505, |
| | 01775 |
| Funai | 01377 |
| GE | 00392, 00566 |
| Hitachi | 00749, 00819, 01250 |
| Hughes | 00749, 01142, 01443, |
| | 01444, 01749, 20739 |
| Humax | 01790, 20739, 21797, |
| | 21988 |
| JVC | 00775, 01170, 01775 |
| LG | 01226, 01414, 22010 |
| Panasonic | 00247, 00701, 20614, |
| | 20616 |
| Philips | 00099, 00722, 00749, |
| | 00775, 00819, 01076, |
| | 01142, 01749, 20618, |
| | 20739 |
| RCA | 00143, 00392, 00566, |
| | 00775, 00855, 01142, |
| | 01392, 01442, 20880 |
| Samsung | 01108, 01109, 01142, |
| | 01276, 01377, 01442, |
| | 01609, 20739 |
| TiVo | 01442, 01443, 01444, |
| | 20618, 20636, 20739 |

Cable Box

| Manufacturer | Code |
|--------------------|----------------------|
| Jerrold/ | 00003, 00276, 00476, |
| General Inst./ | 00810, 01187, 01254, |
| Motorola | 01376 |
| Pace | 00008, 00237, 00877, |
| | 01877 |
| Panasonic | 00000, 00008, 00107, |
| | 00144 |
| Pioneer | 00144, 00533, 00877, |
| | 01877 |
| Scientific Atlanta | 00000, 00003, 00008, |
| | 00237, 00477, 00877, |
| | 01877 |
| Zenith | 00000, 00525, 00899 |

Using Other Equipment with Your Remote Control

Remote control tips are provided below for the equipment you have programmed on the **DVD**, **AMP**, **STB** buttons of the remote control. See page 25 for programming equipment to the remote control. Press **INPUT** to see your connected equipment in the **External Inputs** menu. Button functionality may differ depending on your equipment.

| Button | Action | Universal Blu-ray, HD-DVD, DVD, DVD-R, DVD/ HDD, DVD/VCR | Universal VCR, DVR | Universal SAT/ CBL | Universal AMP/ Receiver |
|-----------------|-------------------------------|--|-----------------------|-----------------------|----------------------------|
| Access Cont | rol | | | - | |
| DISPLAY | Display | \checkmark | Information | \checkmark | \checkmark |
| + | Select | \checkmark | \checkmark | \checkmark | \checkmark |
| \odot | Clear, (cancel) | \checkmark | \checkmark | N/A | \checkmark |
| ENT | Enter | \checkmark | \checkmark | \checkmark | \checkmark |
| Shortcuts Co | ntrol | | | | |
| GUIDE | Guide | \checkmark | \checkmark | ✓ | \checkmark |
| FAVORITES | Favorites | N/A | N/A | \checkmark | N/A |
| INPUT | Input Select | \checkmark | \checkmark | \checkmark | \checkmark |
| RETURN | Exit | \checkmark | ✓ | \checkmark | \checkmark |
| НОМЕ | Setup Menu | \checkmark | ✓ | \checkmark | \checkmark |
| OPTIONS | Options | N/A | List | List | List |
| TOP MENU | Top Menu/List | Top Menu | List | List | Top Menu |
| MENU | Menu | Menu | Menu | Menu | Menu |
| F1 | For selecting between DVD/ | HDD, DVD/HDD, DVD/VCR | VCR, VCR/DVD | N/A | N/A |
| F2 | VCR in combo units | DVD | DVD | N/A | N/A |
| Equipment C | | i - | | · · | |
| POWER | Turn on/off | ✓ | ✓ | V | V |
| | Previous, Skip backward | ✓ | ✓ | ✓ | V |
| + • | Replay | \checkmark | \checkmark | \checkmark | Band |
| • → | Advance, Skip | \checkmark | ✓ | \checkmark | Surround |
| | Next, Skip forward | \checkmark | ✓ | V | V |
| 44 | Rewind | \checkmark | ✓ | ✓ | ✓ |
| | Play | \checkmark | \checkmark | ✓ | \checkmark |
| >> | Fast Forward | \checkmark | \checkmark | \checkmark | \checkmark |
| 11 | Pause | \checkmark | \checkmark | \checkmark | \checkmark |
| | Stop | \checkmark | ✓ | \checkmark | \checkmark |
| Recording Co | ontrol | | | | |
| • | Record | \checkmark | ✓ | ✓ | ✓ |
| | Record Pause | \checkmark | ✓ | ✓ | ✓ |
| | Stop | V | ✓ | V | V |
| Navigation C | ontrol | | | | |
| ≜/ ↓ | Cursor up/down | \checkmark | ✓ | \checkmark | ✓ |
| ←/→ | Cursor left/right | \checkmark | ✓ | ✓ | \checkmark |
| Tuning Contr | ol | ı | | | |
| 0-9 | Digit input | ✓ | ✓ | ✓ | V |
| CH +/- | Channel up/down | V V | V V | V | V |
| JUMP | Last channel | N/A | N/A | V | N/A |
| Volume Cont | rol | • | | · · | |
| VOL +/- | TV volume +/- | N/A | ✓ | V | AMP/RECEIVER Vol. |
| MUTING | Muting | N/A | N/A | N/A | V |
| R/G/B/Y Cont | | L | | | · · |
| Red | Red | ✓ | N/A | ✓ | DVD or BD Input |
| Green | Green | V | N/A | v. | VIDEO 1 or A/V Inp |
| Blue | Blue | V. | N/A | v. | SAT or Cable Inpu |
| Yellow | Yellow | v | N/A | , V | TV or Tuner Input |

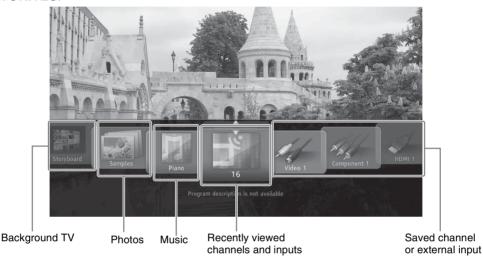
Exploring Fun Features

Favorites

With **Favorites**, you can manage your preferred **TV** channels, **External Inputs**, **Photo** content, **Music** content, and **Background TV** themes for easy access.

Displaying Favorites

Press FAVORITES.



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- The first time you enter Favorites, the recently viewed channels and inputs are highlighted.
- **Background TV** themes, built-in photos and music, and some inputs are automatically saved into **Favorites** as a factory default. To remove from **Favorites**, follow the instructions below.

Navigating Favorites

- **1** Press \bigstar to move between saved selections in a carousel-like fashion.
- **2** When the recently viewed channels and inputs are highlighted, press 4/4 to toggle between them.
- **3** To view an item, highlight its icon and press \oplus .

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• To clear your recently viewed channels and inputs list, highlight the list in **Favorites** and press **OPTIONS**, then select **Clear Recently Viewed**. Recently viewed items are also cleared when the TV is powered off.

Adding to Favorites

- **1** From the **XMB**_{TM}, select a **Photo**, **Music**, **TV**, or **External Inputs** icon. Locate the item you wish to add and press **OPTIONS**.
- **2** Press \bigstar/\clubsuit to highlight Add to Favorites and press \oplus .

Removing from Favorites

- **1** Press **FAVORITES**, then select an item to be removed, and press **OPTIONS**.
- **2** Press \bigstar/\clubsuit to highlight **Remove from Favorites** and press (+).
- Þ

• Initial Setup will return your Favorites to factory default settings (see page 52).

[•] Auto Program will clear your TV channels from Favorites (see pages 16 and 46).

Exploring Fun Features

Background TV

Background TV displays images of current video on your TV that are similar to a screen saver. **Background TV** is available from the CABLE/ ANTENNA, Composite, and DMPORT inputs.

Navigating Background TV

- **1** Tune to one of the inputs listed above.
- 2 Press OPTIONS.
- **3** Highlight **Background TV** and press (+).
- 4 Highlight a theme and press ⊕. The TV will display the current channel or input using the selected **Background TV** theme.



5 Press **RETURN** to exit the **Background TV** and return to the current channel or input.

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• Background TV themes may also be saved to Favorites, so that you can launch these themes from the Favorites screen.

DLNA Certified™ Photo Media Player

This TV is a DLNA Certified digital media photo player that can display JPEG photo content from your DLNA Certified networked equipment.

After configuring the TV to an active network (see page 51), the available media servers will be found automatically and will be displayed under the **Photo** icon (see page 30). See **Show/Hide Servers** (page 51) to manually search for media servers.

Consult your DLNA Certified media server's operating instructions for more details on JPEG photo displaying capabilities. Sony does not guarantee that all media servers will display JPEG photos on this TV.

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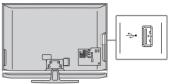
• Viewing content which is obtained between networked DLNA Certified equipment depends on the media formats supported by the DLNA Certified equipment.

Enjoying Photos and Music through USB Port

The TV offers easy access to JPEG photos and MP3 music files stored on Sony digital cameras (not supplied) connected via USB interface and Sony MICRO VAULTTM USB Flash Drives (not supplied).

Using USB Equipment

The USB port is located on the side TV panel.



With the TV powered off, gently insert your USB equipment into the USB port and power on the TV. When inserted properly, it should slide in with little resistance. The TV will display "USB device detected". For information on how to access **Photo** or **Music** files, see pages 30-33.

Removing USB Equipment

Power off the TV and slide the USB Equipment out of the USB port.

USB Equipment Functionality

Sony cannot guarantee or assure the USB functionality on this TV in the following cases:

- Use of non-Sony brand USB equipment
- Use of video or audio clips processed on a computer
- Use of files obtained from the Internet or from a printed film 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 various Sony brand digital cameras and MICRO VAULT USB Flash Drives, but not all. Sony cannot guarantee or assure compatibility with all formats or products.

Photo

The **Photo** feature allows easy access to JPEG files from Sony USB connected equipment and DLNA Certified media servers.

Accessing Photos

Under the **Photo** icon found on the **XMB**_{TM}, select the DLNA Certified media server, **USB**, or **Samples** icon to locate your photo files.

- **1** Press **HOME**.
- 2 Highlight and select the **Photo** category.
- 3 Press ◆/ to highlight and select the photo file location.A sample DLNA Certified media server icon is shown below (actual icon may differ).



4 After locating your photo files, the List View will appear and display photo folders and files. Press
 ▲/◆ to highlight a file or folder and select (shown below with USB selected).

| | Photo | 218 |
|---------|-------|--|
| | | DSC02991 Fri 5/25/2007 12:06 PM JPG |
| View — | | DSC00140.JPG |
| VIEVV — | | DSC00141.JPG |
| | | |

Þ

- To view available DLNA Certified media servers, your TV must be connected and configured to an active network (see page 51).
- The TV can display a maximum photo file size of 8 megabytes from DLNA Certified media servers.
- The photo display resolution range is 16 x 16 to 4,096 x 4,096 pixels.

Navigating through Photo

List

Use the remote control buttons described below to navigate through the feature.

| Button | To do | Button | To do |
|---------|--|--------|--|
| OPTIONS | To access Photo Options menu | PLAY | To play a slideshow |
| (+) | To play and pause a slideshow or select a folder | PAUSE | To pause a slideshow |
| RETURN | To stop slideshow and return to List View/Thumbnail View | STOP | To stop slideshow and return to List View/Thumbnail View |

Photo Options

Pressing **OPTIONS** while displaying the **List View** will display the following Options menu.



List View Options menu

| Playback Method | Sets the Slideshow play mode and photo display order. | | | | |
|-----------------|--|---|--|--|--|
| | Repeat Select On to continuously play the slideshow. | | | | |
| | Shuffle | Select On to shuffle the photo order during the slideshow. | | | |
| Photo Settings | Sets the Slideshow settings. | | | | |
| | Slideshow Speed | Select from Fast , Medium , or Slow to set the photo display duration. | | | |
| | Slideshow Music | Select music to play during the slideshow. Tracks must be added in Music to be available for selection (see page 32). | | | |
| | Slideshow Effect | Select from Simple, Butterfly, Maze, Sepia, Monochrome, Slide, or Fade to set the slideshow transition or image effect (shown below is Butterfly effect). | | | |
| | | (L) | | | |

• Maze and Butterfly slideshow effects can only display JPEG files.



| | Display Preference | Select to optimize picture display quality or display speed. | |
|-------------------|--|--|--|
| | Display Size | Select to view photos in Standard or Expanded size. | |
| File Order | Sets the order in which files will be listed. Select from Original , Alphabetical , Alphabetical Reverse , Date Order , or Date Order Reverse . | | |
| Thumbnail View | Select to fill the display screen with thumbnails. | | |
| View | Select to view the photo file highlighted. | | |
| Start Slideshow | Select to start the slideshow. | | |
| File Actions | Select to modify file settings for photos from a USB connected equipment. | | |
| | Rotate and Sav | e Select to rotate a photo Right 90° , Left 90° , or 180° and save. | |
| | Protection | Select to protect a photo from deletion. | |
| | Delete | Select to delete a photo. | |
| | Print Quantity | Select to set Print Quantity and save to USB connected equipment. | |
| | (L) | | |
| | • Not available with photos accessed from a DLNA Certified media server. | | |
| Information | Select to view photo folder, equipment, or server information. | | |
| Add to Favorites | Select to add a photo, folder, or equipment to Favorites . | | |
| Remove from Favor | ites Select to remove | from Favorites. | |
| | | | |

Pressing **OPTIONS** while displaying a photo will display the following Photo Options menu.



Photo Options menu

| Picture Adjustments | Select to make adjustments to photos (see page 41 Picture Adjustments). |
|---------------------|---|
| Sound Adjustments | Select to make sound adjustments (see page 43 Sound Adjustments). |
| Speakers | Select to set sound to TV Speakers or Audio System. |
| to | |

• For Display Size, Playback Method, Photo Settings, Start Slideshow, Rotate and Save, Delete, Information, Add to Favorites, and Remove from Favorites see page 31.

• Photos cannot be stored in the TV.

Music

Listen to music MP3 files directly from a Sony connected USB equipment (not supplied) or add music to a slideshow.

Accessing Music

Under the Music icon, select the USB or Samples icon to locate your MP3 files.

- **1** Press **HOME**.
- **2** Highlight and select the **Music** category.
- **3** Press \bigstar/\clubsuit to highlight and select the music file location. A sample **USB** icon is selected below.



4 Music files and folders will be displayed in a **List View**. Highlight and select any available file or folder.

Navigating through Music

| Button | To do | Button | To do |
|---------|---|-------------|---|
| OPTIONS | To access Music Options menu | PAUSE | To pause or resume play of a music track. |
| + | To play or pause a music, to select a folder or track | STOP | To stop playing a music track and return to List View/Thumbnail View . |
| | To play the previous music track | ≜/ ▼ | To navigate the List View or to play the previous/next music track |
| | To play the next music track | ◆/ → | Press and hold to display control panel. Release to continue play. |
| PLAY | To play a track | RETURN | To navigate the List View/ Thumbnail View. |

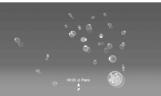
Use the remote control buttons described below to navigate through music tracks.

Music Options

Pressing **OPTIONS** while displaying the **List View** will display the following Music Options menu.



| Omit from Slideshow | Select to remove selected track from the slideshow music. | | |
|---------------------|---|---|--|
| Playback Method | Sets the play order and visual effect settings while playing music files. | | |
| | Repeat | Select On to continuously play tracks. | |
| | Shuffle | Select On to shuffle the track play order. | |
| | Track Selection | Select Single Track or All Tracks to play during a slideshow. | |
| | Visualizer Effect | Select Album Art , Bloom , or Burst visual effects during a track play (shown below is Burst effect). | |



| File Order | Sets the order in which files will be listed on the List View . Select from Original , Alphabetical Reverse , Date Order , or Date Order Reverse . |
|------------------------------|---|
| Thumbnail View | Select to fill display screen with thumbnails. |
| Add for Slideshow | Select to make a music file accessible to play during slideshow. After adding a music file, see Slideshow Music under the Photo Options on page 31. |
| Information | Select to view track, folder, or equipment information. |
| Add to Favorites | Select to add a track, folder, or equipment to Favorites. |
| Remove from Favorites | Select to remove a track, folder, or equipment from Favorites . |
| (L) | |

• Music tracks cannot be stored in the TV.

How to Use TV Guide On Screen

Use the Guide to find the show that you want to watch. The Guide allows you to search for shows by program categories and by keyword. The Guide provides up to two days of TV programming information. The Guide is available with cable service (without a cable box) or over-the-air antenna. Be sure to complete the **Initial Setup** on page 16 to use this service.

| TV Guide Video Logo Window Cloo | ck | Current Service Label | S | Service Bar | |
|------------------------------------|------------------------------------|---|---|---|-------------|
| 12:55 | | | SEARCH | SETUP | |
| GUIDE | 8-1 KFMBH | | | 11:00 12:00 INFO | |
| A Same | Young and the kissing Lily. Eric I | Restless "Victor Fires Mich Braeden, Melody Thomas | ael" (Soap) Victor fires Mi Scott, Amelia Heinle. TV14 | ichael; Karen sees Can 4 (Suggestive Dialogue, | Info Icon |
| | | | | | Info Box |
| | WED | 11:00AM | 11:30AM | 12:00PM | — Time Slot |
| | CODIN 5 | Tyra Banks | | Steve Wilkos Show | |
| and the second | FOX 6 | Still Standing | Still Standing | Cops | |
| | FOX 6-1 | Still Standing | Still Standing | Cops | |
| (- P -) | NBC 7 | Access Hollywood | Jeopardy! | In the Loop With) | |
| | OCBS : | Young and the Restle | 255 | Title Unavailable | |
| | OCBS 84 | Young and the Restle | ess Hi | Title Unavailable | |
| | KUSI 9 | Morning Show With | Mile and Juliet | Maury) | |
| NCIC | 0000 10 | 10News Live @ 11A | | All My Children | |
| NCIS | 00C 10-1 | 10News Live @ 11A | | All My Children | |
| TUE 8/7c OCBS | PBS II | Sesame Street | Peep and the Big | It's a Big, Big World | |
| | | - | | | |
| | | | | | |
| Panel Menu/Panel Ad | Channel Lo | go/Number | Title HDTV S | how Icon | |

TV Guide On Screen System Components

Þ

• Image shown above includes digital channels, which may not be available in some areas. If available, it may be necessary to manually change the channel display (see next page).

Use your TV's remote control to navigate the Guide system.

| To Do This | Do This |
|-------------------------|---|
| View TV Guide | Press GUIDE to display the TV Guide. Press GUIDE again to exit or press HOME to exit to XMB _{TM} . The TV Guide will time out in approximately 5 minutes when no action is taken. |
| Find a program to watch | Use $\langle \langle \langle \rangle \rangle$ to highlight a program. The CH+/– buttons can be used to page up/down through the listings. The program information will appear in the Info Box. Press $(+)$ to tune to the highlighted program. |
| Return to Service Bar | Press RETURN while in the TV Guide, or press OPTIONS to display the Panel Menu then highlight the go to Service Bar and press $(+)$. You can also press \blacklozenge repeatedly to access the Service Bar. |
| Use shortcuts | Shortcuts allow viewing of listings for a different time slot or jumping to a channel of your choice. Enter a number using 0-9 buttons while LISTINGS on the Service Bar is highlighted. The Panel Menu will appear as soon as you enter a number. Complete entering the number in the Shortcuts. The entered number will determine the channel or listing hours ahead or back to view the program. Press ↑/ to make your selection. |

| To Do This | Do This |
|--|---|
| Search program | Press ★/★/★/ to highlight SEARCH on Service Bar. You can search for programs using the following options: KEYWORD , ALPHABETICAL , MOVIES , SPORTS , CHILDREN , EDUCATIONAL , NEWS , VARIETY , SERIES and HDTV . Press (+) then press ★/★ to highlight your search option. Press ★/★ to narrow your search. Press (+) when you find the program. If the program is airing now, press (+) to watch. |
| Keyword search | Keyword search can be done by type, category or subcategory of a program. Highlight SEARCH on the Service Bar, press $(+)$ then press $(+)$ to highlight KEYWORD . Press $(+)$ again or press OPTIONS to display Keyword Options in the Panel Menu. Select new search to narrow your search by type, category or subcategory by pressing $(+)(+)(+)(+)$. |
| Customizing the TV Guide On Screen system settings | Highlight SETUP on the Service Bar then press ♦ to highlight the available options to customize your system settings. You can change system settings, change channel display, change default options, display setup progress and diagnostics information. |
| Change channel display | Highlight SETUP on the Service Bar then press ♦ to highlight the Change channel display then press (+). Highlight a channel then press OPTIONS to display the Grid Options. Make the changes using ♦/♦ and/or 0-9 buttons. When the changes are made, select done and press (+). The Grid Options can also be used to re-sort the channel display numerically. Display the Grid Options and select re-sort numerically then press (+). Confirm the numerical re-sort by selecting yes to complete the task. |
| The Guide appears each time TV is turned on | Highlight SETUP on the Service Bar then press ↓ to highlight Change default options and then press (+). Highlight General defaults and press (+) to display options in the Panel Menu. Set auto guide to on to have the Guide appear when the TV powers on. |
| Lock/unlock video | Allows you to set the Video Window display to remain on a single channel (locked) or change channels (unlocked) as you navigate through Listings. While in Service Bar, press OPTIONS to display the Listings Options in the Panel Menu. Press ∢/ → to lock or unlock the video. The locked video option displays a single channel. |

Using BRAVIA Sync with Control for HDMI

The BRAVIA Sync function on this TV communicates 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 pages 12 to 15 or 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. See page 50 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 through the connected equipment by One-Touch-Play.
- Equipment listed under the **External Inputs** on the **XMB**_{TM} will turn on automatically when selected, see pages 5 and 38.
- Possible operations with **BRAVIA Sync** buttons, see page 19.

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.
- Automatically switching to the audio output of the A/V receiver's attached speakers.
- Adjusting the volume and muting of the A/V receiver with the TV's remote control.

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• The A/V receiver cannot be selected from the **XMB**_{TM}.

Using DIGITAL MEDIA PORT Adapter

Connecting a DIGITAL MEDIA PORT

(DMPORT) adapter lets you display photos and play videos and music from a portable player on your TV.

The DMPORT adapter's menu and portable player can be controlled via the TV's remote control. The DMPORT input can be selected by pressing **INPUT**.

By pressing **~**, **PLAY**, **PAUSE**, **>** or **STOP** you may be able to navigate through the portable player's menu.

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- Viewing the equipment's menu on the TV and controlling it via the TV's remote control depends on the equipment; refer to the portable player's operating instructions.
- Available DIGITAL MEDIA PORT adapters vary in each area.
- Do not connect an adapter other than the DIGITAL MEDIA PORT adapter.
- If the portable player is capable of sending video signals, then the DIGITAL MEDIA PORT will have video output. In this case, the system outputs a composite video signal.
- Check compatibility between portable player and the DIGITAL MEDIA PORT adapter.
- The output volume level between the DMPORT input and TV or other equipment input may be significantly different; adjusting the TV or other equipment's volume may be necessary.

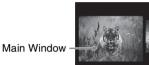
Using P&P and PIP Features

This TV comes with the **P&P** and **PIP** features which allow you to view two pictures simultaneously. **P&P** (picture and picture) provides two windows side by side. **PIP** (picture in picture) provides PC input signal and TV channels.

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- The CABLE/ANTENNA input must be connected to use the **P&P/PIP** features.
- **P&P** is not available with 1080/24p video format.
- Closed Captions (CC) is available with P&P and PIP (see page 47).

P&P





PIP



To Enter P&P and PIP

- 1 Press **OPTIONS** while watching one of the following inputs: TV channels, Video, Component, HDMI, DMPORT or PC.
- **2** Press \bigstar/\bigstar to highlight **P&P** or **PIP** and press (-).

| P&P Supported Inputs | | |
|---------------------------------------|---------------------|--|
| In main window | In sub window | |
| Video 1/2/3 | | |
| Component 1/2 | TV channel | |
| HDMI IN 1/2/3/4 (except PC timing) | (CABLE/ ANTENNA) | |
| DMPORT | | |

| PIP Supported Inputs | | |
|-----------------------------|---------------------|--|
| In main window | In sub window | |
| PC | TV channel | |
| HDMI IN 1/2/3/4 (PC timing) | (CABLE/ ANTENNA) | |

Þ

- To swap audio in **P&P** mode, use the **←/→** button to swap the highlight between the Main Window and Sub Window.
- To swap audio in **PIP** mode, press **OPTIONS**, then press ♦/↓ to highlight **Audio Swap**.
- For compatible PC Timings, refer to the PC Input Signal Reference Chart (see page 14).

To Change Inputs or Channels (P&P)

Press \bigstar to highlight the window to change for **P&P**.

- In the main window, press **INPUT** to select an input to watch.
- In the sub window, change the channel by: pressing **CH**+/–; entering the channel number using the **0-9** numeric buttons; or pressing **JUMP** to switch to the previously viewed channel.

To Change Channels (PIP)

You can change the channel of the sub window by pressing **CH+/–**; entering the channel number using the **0-9** numeric buttons; or pressing **JUMP** to switch to the previously viewed channel.

To Exit from P&P and PIP

1 Press **OPTIONS**.

2 Press **↑**/**↓** to highlight **Exit P&P** or **Exit PIP** (depends on the mode you are in), and press (+) to exit.

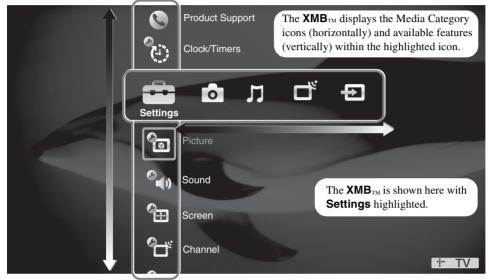
Þ

- You may also press **RETURN** while in these features to exit.
- Additional compatible device with TV tuner is required to watch two simultaneous live TV programs.

Using TV Settings



The **HOME** button allows you to access the **TV Home Menu** on the **XMB**_{TM} (XrossMediaBar) as well as a variety of TV features.



Media Category Icons

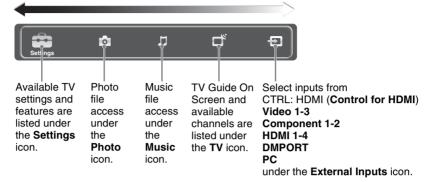
| | Adjusting TV Settings |
|----------|---|
| Settings | Customize the TV settings with various options. |
| Settings | Explanations of different Settings start on page 40. |
| | • The available options vary depending on the situations and conditions applied. Unavailable options are grayed out or not displayed. |
| | Viewing Photos |
| Photo | View photos and customize slideshows (see page 30). |
| M | Listening to Music |
| Music | Listen to music or add a music track to a slideshow (see page 32). |
| | Watching TV |
| | Navigate through the channel list or select the TV Guide On Screen icon located at the top |
| т | of the channel list to select a channel (see page 34). |
| | • You can also select a TV channel using the 0-9 or CH+/– buttons (see remote control section on pages 20 and 23). |
| F | Accessing External Inputs |
| External | Watch a movie, play a game, record a program or work on your PC. |
| Inputs | Assign a label using the Manage Inputs feature for your convenience (see page 50). |

Navigating through TV Home Menu on XMB_{TM}

 Press **HOME** to display the **XMB**_{TM}.

2 (+ ++ +)

Press **♦/** to select a Media Category icon.





+

Press **♦**/**♦** to move within the Category Object Bar. (The Category Object Bar shown below is for **Settings**.)

| | | Product Support (page 40) |
|----|---------------|--------------------------------|
| | e e | Clock/Timers (page 40) |
| | ° <u>a</u> - | Picture (page 41) |
| | ି କୁନ୍ତି | Sound (page 43) |
| | °⊕⊳– | Screen (page 44) |
| L. | °±i= | Channel (page 46) |
| L. | - | Closed Captions (CC) (page 47) |
| | °C | Parental Lock (page 47) |
| | ₽₽ | External Inputs (page 50) |
| | ≗⊷ | HDMI Settings (page 50) |
| |) () () | Network (page 51) |
| | | General Setup (page 51) |
| | 1-2-3 | Initial Setup (page 52) |
| V | | , |

4 ↔ Press ↔ when desired item is highlighted.
5 ↔ Press ↔ or ★/★ to select the highlighted item.
6 ↔ Press RETURN or HOME to exit.

TV Settings Descriptions



Product Support

| Contact Sony | Sony contact information is available from this screen for your convenience. Your TV's specific information such as Model Name, Serial Number, Software Version and downloadable ratings if available from the TV are displayed here. |
|--------------------|---|
| Signal Diagnostics | Select to view the diagnostics information for the current signal. |
| Software Update | To view the current software version and check for software updates, the network must be connected to the TV or a broadcast download must be available (for U.S. customers only). Press ↑/ to choose the new version (if available) and press (+) to begin the software update. |
| | (L) |
| | • The Cable/Antenna cable needs to be connected directly to the TV and have digital TV programming (not available with the use of a cable box). |
| | • The broadcast download is performed while the TV is off. |
| | The software update is performed while the TV is powered on. |
| | • Do not turn off the TV during the software update, it may damage the TV software. |

| Clock/Timers Settings | | |
|-----------------------|---|--|
| Current Time | Set the current day and time (date, hour, minutes, and AM/PM). The Timer feature will not be available until you set the Current Time . | |
| | | |
| | • If the option is disabled, the TV Guide On Screen has automatically set the time. | |
| Timer | Timer can be set to have the TV tune to a certain TV channel or other connected equipment as well as a specified volume at the specified time and duration you set. Turning on the Timer will allow setting the following: Day of the Week , Time , Duration , Input , Channel , and TV On Volume . | |
| Sleep Timer | Sets the time in minutes (Off, 15 min, 30 min, 45 min, 60 min, 90 min , or 120 min) that you want the TV to remain on before shutting off automatically. | |

Picture Settings

| Picture Adjustments | Picture Mode For Video | Vivid | For enhanced picture contrast and sharpness. |
|---------------------|---------------------------|----------------|--|
| | | Standard | For standard picture settings. Recommended for home entertainment. |
| | | Cinema | For viewing film-based content. Most suitable for viewing in a theater-like environment. |
| | | Custom | Allows you to store your preferred settings. |
| | For Photo | Photo-Vivid | For enhancing contrast and sharpness. |
| | | Photo-Standard | For standard viewing; select for home use. |
| | | Photo-Original | Images resemble the printed pictures from your photo album. |
| | | Photo-Custom | Allows you to store your preferred settings. |
| | For PC Timings | Video | This option is available for PC timing (HDMI or PC input) signal to enhance the video shown on the screen. |
| | | Text | This option is available for PC timing (HDMI or PC input) signal to enhance the text shown on the screen. |

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• **Picture Mode** for all inputs can also be accessed by pressing **PICTURE** on the remote control to directly toggle the modes.

• The options for Picture Mode may vary depending on the Video/Photo Optimizer setting (see page 43) and PC input.

| | , 1 | | |
|-------------------------|--|--|--|
| Reset | Resets the current settings to the default values. | | |
| Backlight | Brightens or darkens the backlight. | | |
| Picture | Increases or decrea | ses picture contrast. | |
| Brightness | Brightens or darker | ns the picture. | |
| Color | Increases or decreases color intensity. | | |
| Hue | Increases or decreases the green tones. | | |
| Color Temperature | Cool | Gives the white colors a bluish tint. | |
| White adjustment | Neutral | Gives the white colors a neutral tint. | |
| | Warm 1, 2 | Gives the white colors a reddish tint. | |
| | Image: First State of the state of t | | |
| | | | |
| Sharpness | Sharpens or softens the picture. | | |
| Noise Reduction | Reduces the picture noise level. | | |
| MPEG Noise Reduction | Reduces the mosaic effect in MPEG-compressed video. Useful for DVDs, Blu-ray and digital TV channels. | | |

| | Advanced Settings | Available in the following Picture Modes: Standard, Cinema, Custom, Photo-Standard, Photo-Original, and Photo- Custom. | | |
|-----------------|--|---|--|--|
| | | Reset | Resets all the advanced settings to the default values. | |
| | | Black Corrector | Enhances black areas of the picture for stronger contrast. | |
| | | Advanced C.E. (Advanced Contrast Enhancer | Automatically optimizes the backlight and contrast. This setting is especially effective for dark picture scenes. | |
| | | Gamma | Adjusts the balance between light and dark areas of the picture. | |
| | | Clear White | Emphasizes white and light colors. | |
| | | Color Space | Selects the range of color reproduction from Wide or Standard . | |
| | | Live Color | Available when Color Space is set to Wide . Makes colors more vivid and reproduces clear skin tones. | |
| | | White Balance | Adjusts the color temperature in detail. | |
| Motion Enhancer | | ghtness, and Color T onflow to enhance the s | emperature. moothness of picture movement and to reduce blue | |
| | High | Provides smoother | picture movement for film-based content. | |
| | Standard | Provides smooth p | icture movement. Use this setting for standard use | |
| | Off | Use this setting wh artifacts such as gl | ten the High and Standard settings result in video nosting. | |
| | | | | |
| | | change may be seen de | pending on the video. when Game Mode is set to On . | |
| | • Motion Enn | | | |
| CineMotion | Automatically | detects film-based cont | ent and applies an inverse 3-2 pull-down process rove film content and de-interlacing performance. | |
| CineMotion | Automatically | detects film-based cont stimation engine to imp Applies an inverse estimation to obtai | ent and applies an inverse 3-2 pull-down process rove film content and de-interlacing performance. 3-2 pull-down process along with motion | |
| CineMotion | Automatically and a motion e | detects film-based cont stimation engine to imp Applies an inverse estimation to obtai of moving images. | ent and applies an inverse 3-2 pull-down process rove film content and de-interlacing performance. 3-2 pull-down process along with motion n the smoothest picture quality and reduces artifacts Select for standard use. werse 3-2 pull-down process. Picture movement | |
| CineMotion | Automatically and a motion ex Auto 1 | detects film-based cont stimation engine to imp Applies an inverse estimation to obtai of moving images. Applies only the in | ent and applies an inverse 3-2 pull-down process rove film content and de-interlacing performance. 3-2 pull-down process along with motion n the smoothest picture quality and reduces artifacts Select for standard use. nverse 3-2 pull-down process. Picture movement he original film. | |

| Select On to optimize the enjoyment of fast paced video games where response time is important. Select Off to disable this feature. | | |
|---|--|--|
| لکے • The Game I | Mode can be set separately for each external input (except PC IN). | |
| Sets the picture settings to optimize the image quality of video (moving pictures) or photo (still image) content. Feature is only available for 1080i/p (excluding 1080/24p) content connected to the Component or HDMI input. | | |
| Video-A | The TV will automatically set the picture settings for video or still image content when Sony optional equipment that supports Video-A mode is connected to the HDMI input. | |
| Video | Select to set the picture settings for video. | |
| Photo | Select to set the picture settings for photos. | |
| _ | important. Sel | |

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• Game Mode and Video/Photo Optimizer features are not available when Theater Mode is set to On.

Sound Settings

Available **Sound** settings depend on the **Speakers** setting.

| Sound Adjustments | Sound Mode | Dynamic | Enhances treble and bass. |
|-------------------|---------------|--|--|
| | | Standard | Standard sound optimized for home use. |
| | | Clear Voice | Suitable for spoken dialog. |
| | Reset | Resets the current | settings to the default values. |
| | Treble | Increases or decrea | ases higher-pitched sounds. |
| | Bass | Increases or decrea | ases lower-pitched sounds. |
| | Balance | Emphasizes left or right speaker balance. | |
| | Surround | S-FORCE Front Surround | Provides a virtual surround sound experience made possible using just two front speakers. |
| | | Off | Select for normal stereo or mono reception. |
| | Voice Zoom | news announcer is voice clearer. Conv | of human voices. For example, if the voice of a indistinct, you can turn up this setting to make the versely, if you are watching a sports program, you setting to soften the voice of the commentator. |
| | Sound Booster | depth and width, b Select High , Low Selecting Off will | ster provides a fuller sound with a greater sense of y emphasizing the high and low frequency sounds or Off for the amount of boost you desire. bypass the emphasis. |
| | <u></u> | , | hen in Standard mode. |
| | Steady Sound | | ize the volume across all programs and ct Off to disable this feature. |
| | Volume Offset | Adjusts the volume relative to other in | e level of the current input (TV or video input) |

• Sound Adjustments can also be accessed by pressing **OPTIONS** on the remote control.

| MTS Enjoy stereo, bilingual | Stereo | For stereo reception when viewing a TV program broadcasted in stereo. | | |
|---|---|--|--|--|
| and mono programs | Auto SAP | Automatically switches the TV to second audio programs when a SAP signal is received. If no SAP signal is present, the TV remains in Stereo mode. | | |
| | Mono | For mono reception. Use to reduce noise during weak stereo broadcasts. | | |
| | ¢0 | | | |
| | • MTS is available only for analog programs. | | | |
| | • MTS can also be accessed by pressing OPTIONS on the remote control. | | | |
| Speakers | TV Speakers | Select to use the TV speakers for audio. | | |
| | Audio System | Select this option if you wish to use an external audio system for the TV sound. By selecting this option you are disabling the TV speakers. | | |
| Audio Out Easy control of volume adjustment | Fixed | Select to fix the audio output and allow you to adjust the volume with your audio system's remote control. (The TV's remote control's VOL and MUTING buttons have no effect on the Audio Out .) | | |
| | Variable | Select to control the volume of your TV's speakers or audio system with your TV's remote control. | | |
| Woofer Level | Increases or decreases the low frequency sounds. | | | |

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• Alternate Audio is available only for digital programs. If the program you are watching is also available in other languages from the audio tracks, and if that language is what you have selected in the Language setting, your TV will automatically switch to the matching language with the Alternate Audio feature. The Alternate Audio option may be accessed by pressing OPTIONS on the remote control when an alternate audio stream is available from the broadcaster.

| Wide Mode | Wide Zoom | Fills the screen with minimum distortion. | | |
|-----------|---|---|--|--|
| | Normal | Displays the 4:3 picture in its original aspect ratio when the original source is 4:3. | | |
| | Full | Enlarges the picture horizontally to fill the screen when the original source is 4:3. When the original source is 16:9 (High-definition source), select this mode to display the 16:9 picture in its original size. | | |
| | H Stretch | Enlarges the picture horizontally to fill the screen when the original source is 16:9. It is useful for HD channels with 4:3 content. | | |
| | Zoom | Select to enlarge the picture horizontally and vertically to fill the screen while maintaining the aspect ratio. | | |
| | See WIDE but Normal is available | can also be accessed by pressing WIDE on the remote control. ton description on page 21 for accessing the Wide Mode . uilable with 480i or 480p sources only. only available with 720p, 1080i, 1080p and 1080/24p sources. | | |
| Auto Wide | On | Automatically changes Wide Mode setting based upon content. If frequent screen changes are disturbing to you, select Off . | | |
| | Off | Turns off the Auto Wide option. Choose a Wide Mode from the Wide Mode option. | | |

| 4:3 Default Select the default screen | Wide Zoom | Enlarges the 4:3 picture to fill the 16:9 screen, displaying as much of the original image as possible. | | |
|---|--|--|--|--|
| mode to use for 4:3 sources | Normal | Displays the 4:3 picture in its original aspect ratio. | | |
| sources | Full | Select to enlarge the 4:3 picture horizontally only, to fill the screen. | | |
| | Zoom | Select to enlarge the picture horizontally and vertically to fill the screen while maintaining the aspect ratio. | | |
| | Off | Select to continue using the current Wide Mode setting when the channel or input is changed. | | |
| | • If 4:3 Default current channe replaced with t setting as chan | s not available if Auto Wide is set to Off . t is set to anything but Off , the Wide Mode setting applies only to the l. When you change channels (or inputs), Wide Mode is automatically he 4:3 Default setting for 4:3 sources. To retain the current Wide Mode nels and inputs are changed, set 4:3 Default to Off . | | |
| Display Area | Full Pixel | Displays the picture for 1080i, 1080p or 1080/24p sources in its original size. | | |
| | Normal | Displays the picture in its original size. | | |
| | -1/-2 | Enlarges the picture to hide the edges of the picture. | | |
| | | | | |
| | For 720p, 1080i, 1080p and 1080/24p, feature is only available when Wide Mode is set to Full. | | | |
| Screen Position | Adjust the Vertical positioning by pressing \bigstar/\clubsuit . Press \bigstar/\Rightarrow to adjust the Horizontal positioning. | | | |
| | | | | |
| | Screen Position feature is useful if the TV is connected to game equipment. Vertical position is available only when Wide Mode is set to Zoom. For high-definition signals, Vertical and Horizontal positions are not available. | | | |
| Vertical Size | Adjusts the vertical size of a standard-definition picture. | | | |
| | Vertical Size standard-definit | is available only when Wide Mode is set to Wide Zoom or Zoom for ition channels. | | |
| Screen settings for PC | timings and HDN | II-PC (PC input) differ from all other input modes and are shown below. | | |
| Auto Adjust | Select Yes to sta | art the auto adjust for the PC input. | | |
| Reset | Resets the settings to the default values. | | | |
| Phase | Adjust after Pite | ch to fine tune overall sharpness. | | |
| Pitch | Adjust uneven sharpness on screen. | | | |
| | | | | |
| | • For the PC Input Signal Reference Chart, see page 14. | | | |
| H Center | • | nove the position of the picture horizontally (left and right). | | |
| V Center | Allows you to move the position of the picture vertically (up and down). | | | |
| Wide Mode | Normal | Select to display the picture in its original resolution and aspect ratio. | | |
| | Full 1 | Select to enlarge the picture to fill the screen, while maintaining its original aspect ratio. | | |
| | Full 2 | Select to enlarge the picture to fill the screen. | | |
| | | an also be accessed by pressing WIDE on the remote control. | | |

• Phase and Pitch options are not available with PC signal connected to HDMI input.

Using TV Settings

Channel Settings

| Signal Type | Cable | For receiving cable channels via cable TV provider. | | |
|----------------------|---|--|--|--|
| | Antenna | For receiving signal via over-the-air antenna. | | |
| | (L) | | | |
| | • You should run | Auto Program after changing the Signal Type setting. | | |
| Auto Program | will be based on | ts the channel list in the TV for all receivable channels. Channel scanning the Signal Type (Cable/Antenna) setting. | | |
| | 1 Select Auto Program. | | | |
| | | b start Auto Program . When Auto Program is completed, the screen the number of channels found. | | |
| | 3 Press RETU | IRN to exit Auto Program. | | |
| | | | | |
| | • Running Auto type. | Program will clear the Favorites channel list for the current signal | | |
| | • If you run Auto Program again, previously scanned channels will be overwritten with the newly scanned channels. | | | |
| Add Digital Channels | | tal channels. Be sure to have the Signal Type option selected the signal source. (Useful for antenna installations.) | | |
| Show/Hide Channels | Allows you to sh channel list on th | ow or hide channels when you surf with the $CH +/-$ button or in the TV e XMB_{TM} . | | |
| | 1 Press ↑/ ↓ to hide. | scroll through the channels until you highlight the channel to show or | | |
| | 2 Press (+) to | select Shown or Hidden. | | |
| | To show or l | nide more channels, repeat steps 1-2. | | |
| | (D) | | | |
| | P | els can be accessed by entering the channel number with 0-9 buttons on rol. | | |
| Edit Channel Labels | Assigns labels (st | uch as station call letters) to channel numbers. | | |
| | | scroll through the channel numbers. Then press \oplus to select the channel ssign a label. | | |
| | 2 Press ♠/♦ to scroll through the label characters (A-Z, 0-9, etc.). Press ♦ to move to the next character. Repeat to add up to 7 characters to the label. Press ⊕ to set it. | | | |
| | To assign labels to more channels, repeat steps 1-2. | | | |
| | This feature is r | not available when using the TV Guide On Screen system. | | |

cc Closed Captions (CC) Settings

| CC Display | This option allows you to view Closed Captions (CC). | | |
|-----------------|---|--|--|
| | On | Enables CC Display. | |
| | Off | Disables CC Display . | |
| | On with Muting | g Automatically displays closed captions when the TV is muted. | |
| Analog CC | For the basic analog (EIA-608) closed caption options. | | |
| | CC1, CC2, CC3, CC4 | Displays a printed version of the dialogue or sound effects of a program. (Should be set to CC1 for most programs.) | |
| | Text1, Text2, Text3, Text4 | Displays network/station information presented using either half or the whole screen (if available). | |
| Digital CC | For both analog (EIA-608) and digital (EIA-708) closed caption options. Select from Service 1-6 and CC1-4 (advanced digital closed caption options). | | |
| Display Options | Customize the Closed Captions (CC) displays with Text, Character Size, Character Style, Character Color, Character Opacity, Edge Type, Edge Color, Background Color and Background Opacity. | | |

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• Closed Captions (CC) can be turned On, Off or On with Muting directly by pressing CC on the remote control.

Parental Lock Settings

The **Parental Lock** feature allows you to block programs according to their content and rating levels and block channels (regardless of the programs). Password is necessary in setting up blocking.

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• The Parental Lock feature is also available with Video and Component (480i) inputs.

To View Blocked Programs

Press **ENT** when tuned to a blocked program, then enter the password. To reactivate the **Parental Lock** settings, turn off and on the TV.

| Password | Use 0-9 button on the remote control to enter a four-digit password. The first time the password is created, you must re-enter it again to confirm the password. "Password set" message will appear on the screen upon confirmation. | | |
|----------|---|--|--|
| | Change Password You can change your password by entering the Parental Lock setting with the previously set password. Highlight and select Change Password , then enter the new password. | | |
| | You need your password for any future access into the Parental Lock settings. If you lose your password, see "Lost password" on page 56. | | |
| Country | Select the country name of U.S.A. or Canada for the appropriate ratings. The rating system varies between these two countries. See Custom Rating System Chart on page 49. | | |
| | | | |

| Off | Turns off Parental Lock . No based on their ratings. | programs are blocked from viewing |
|-------------|---|-----------------------------------|
| Child | Ratings permitted are: | |
| | United States | |
| | TV Rating: TV-Y, TV-G | MPAA: G |
| | Canada | |
| | English TV Rating: C, G | French TV Rating: G |
| Youth | Maximum ratings permitted a | re: |
| | United States | |
| | TV Rating: TV-PG | MPAA: PG |
| | Canada | |
| | English TV Rating: PG | French TV Rating: 8 ans+ |
| Young Adult | Maximum ratings permitted a | re: |
| - | United States | |
| | TV Rating: TV-14 | MPAA: PG-13 |
| | Canada | |
| | English TV Rating: 14+ | French TV Rating: 13 ans+ |
| Custom | Sets ratings manually. | |
| | U.S.: See page 49 for details. | |
| | Canada: See page 49 for detai | ls. |
| | | |

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Rating

• If you are not familiar with the parental guideline rating system, you should select **Child**, **Youth**, or **Young Adult** to help simplify the rating selection. To set more specific ratings, select **Custom**.

| Digital Rating (Available only in U.S.A. | Off | Turn Digital Rating off. No programs containing digital ratings are blocked from viewing. | |
|--|--|--|--|
| where advanced ratings exist) | Custom | Select to customize the Parental Lock with downloadable digital ratings. | |
| | Clear All | Select to clear the downloaded ratings. | |
| Unrated | Allow | Allows programs and movies that are broadcasted without a rating. | |
| (Available only when Country is set to U.S.A.) | Block Blocks all programs and movies that are broadcasted without a rating | | |
| | If you block unrated TV programs, be aware that the following types of programs may be blocked: programs broadcast from another country, emergency broadcasts, political programs, sports, news, public service announcements, religious programs and weather. | | |
| Channel Block | to be set up pri | block specific channels regardless of program ratings. The password needs or to blocking channels. The blocked channel can only be viewed by rrect password. | |
| | | ocked Channel en tuned to the blocked channel then enter the password. | |

Custom Rating System Chart

| Movie Rating | G | All children and general audience | |
|--|---------------------------|---|--|
| | PG | Parental guidance suggested | |
| | PG-13 | Parental guidance for children under 13 | |
| | R | Restricted viewing, parental guidance is suggested for ages under 1 | |
| | NC-17 and X | No one 17 or under allowed | |
| TV Rating | Age-Based Ratin | ngs | |
| Block programs by their rating, content or both | TV-Y | All children | |
| ung, comeni or boin | TV-Y7 | Directed to children age 7 and older | |
| | TV-G | General audience | |
| | TV-PG | Parental guidance suggested | |
| | TV-14 | Parents strongly cautioned | |
| | TV-MA | Mature audience only | |
| | Content-Based Ratings | | |
| | FV | Fantasy violence | |
| | D | Suggestive dialogue | |
| | L | Strong language | |
| | S | Sexual situations | |
| | V | Violence | |
| | (L) | | |
| | P | imum blocking capability, set the Age-Based Ratings. | |

For **Country** selection of **U.S.A.**:

For **Country** selection of **Canada**:

| English Rating | С | All children | |
|----------------|---|------------------------------------|--|
| | C8+ | Children 8 years and older | |
| | G | General programming | |
| | PG | Parental guidance | |
| | 14+ | Viewers 14 and older | |
| 18+ | | Adult programming | |
| French Rating | G | General programming | |
| | 8 ans+ | Not recommended for young children | |
| | 13 ans+ | Not recommended for ages under 13 | |
| | 16 ans+ | Not recommended for ages under 16 | |
| | 18 ans+ | Programming restricted to adults | |
| U.S.A. Rating | See TV Rating under U.S.A. for details. | | |

| External Inp | outs Setting | s | | |
|---------------------|--|---|--|--|
| Manage Inputs | Follow the steps below to customize your input menu for easy recognition when the INPUT button is pressed or when selecting an input from the XMB _{TM} . | | | |
| | 1 Press ↑ / ↓ to highlight your input selection. | | | |
| | display thi connected | to set Enable setting to either Always or Auto . The Always option will is input in the input menu at all times. With the Auto option, the input with icon will only appear when external equipment is connected and/or an nal is present. Some external equipment may not be detected ally. | | |
| | 3 To assign your own label to the input, press → to highlight the label option, then press →/→ to choose a name of the equipment that is connected to this input. ✓ You can assign the following labels for each input (except PC IN and DMPORT): -, DVD, Cable Box, Satellite, BD, VCR, Receiver, DVR, Game, Camcorder, PC. | | | |
| | • "-" indicates that no labels are assigned. | | | |
| Channel Tuning Keys | This setting controls how the remote control channel tuning keys (0-9 , CH+/– and JUMP) behave while using an external input. | | | |
| | Enabled | Select to allow the TV to exit from the external input and return to a TV channel when pressing the tuning keys. | | |
| | Disabled | Select to disable the tuning keys during external input mode and prevent unintentionally exiting the external input. | | |
| | (D) | | | |
| | • Useful for applications that do not have a connection to the CABLE/ANTENNA input. | | | |

HDMI Settings

HDMI inputs of this TV will recognize and communicate with other Sony equipment equipped with **Control for HDMI** function.

| Control for HDMI | On/Off feature allows your TV to communicate with other equipment that supports Control for HDMI function. |
|-----------------------|---|
| Device Auto Power Off | Select On to have your connected equipment with Control for HDMI function to power off automatically when the TV is turned off. Select Off to disable this function. This feature is available when Control for HDMI is On . |
| TV Auto Power On | Select On to control your TV's power on from your connected equipment with Control for HDMI function. Select Off to disable this function. This feature is available when Control for HDMI is On . |
| Device List | Displays a list of equipment with Control for HDMI function connected to the TV. |
| Æ. | |

• Press **OPTIONS** while the equipment supporting **Control for HDMI** is connected to display the **Device Control** options. The **Device Control** option provides access to the **Menu**, **Options** and **Content List** of your connected equipment with your TV remote control.

• Some equipment with Control for HDMI does not support the Device Control feature.

| Network S | ettings | | |
|--------------------|----------------|---|---|
| Network Setup | | etwork Set | TV's accessibility to your network via an Ethernet cable and up or review your TV's current network settings. Select your ype. |
| | Easy | The TV will automatically configure your network settings. Most network can be configured with this option. | |
| | Custom | | n allows you to manually enter the IP address and proxy settings VANCED USERS ONLY). |
| | | Auto | Select to populate the IP address and jump to the proxy setting selection. |
| | | Manual | Select to manually enter an IP address. If you would like to use a proxy setting, select Use , if not, select Don't Use . |
| | Review | Select to view current network settings. | |
| Show/Hide Servers | | | de available DLNA Certified media servers. When in Show/ ess OPTIONS to display the items below. |
| | Delete All | Select to c | lelete all connected servers. |
| | Update Lis | t Select to u | pdate the server list. |
| | Details | Select to display the detailed information of the connected server. | |
| | Delete | Select to delete the highlighted server. | |
| | (L) | | |
| | • The items a | above can on | ly be accessed by pressing OPTIONS while in the Show/Hide |
| | Servers n | nenu. | |
| Server Diagnostics | Select to view | w the server | diagnostic information. |

General Setup Settings

| Language | Select the language of your choice from English , Español and Français to be used for displaying all the on-screen settings. | |
|----------------|--|---|
| Info Banner | Displays the program name and the program information such as program title and program rating (if available from the broadcaster). Select the amount of program information to display when tuning. | |
| | Small | Select to display minimal channel and program information. |
| | Medium | Select to display channel and program information. |
| | Large | Select to display detailed channel and program information. |
| USB Auto Start | changed or when DISPLAY on the remote control is pressed. Select to automatically display photos when a camera is connected via USB. | |
| | Slideshow | Select to view JPEG files as a Slideshow . |
| | Thumbnail View | Select to view JPEG files up to 60 thumbnails at a time. |
| | Off | Select to disable this function. |
| | Press HOMI | on the remote control to exit this function. |

| Home Menu Scrolling | g Adjust the navigation speed through menu items. | |
|-----------------------------|--|---|
| Tionic mena coroning | Standard Select to scroll quickly with $\frac{1}{2}$ buttons. | |
| | | |
| | Mode 1 | Select to scroll slowly with \bigstar/\clubsuit buttons. |
| | Mode 2 | Select to scroll individually with repeated $/////$ button press. |
| Power Saving | Reduces the power consumption by adjusting the backlight brightness. This also the black level. Select from Off , Low , High and Picture Off . | |
| | | |
| | While Picture Off is set, pressing VOL +/- or MUTING buttons will not disable this function. Press other buttons to disable it. | |
| Light Sensor | Enables the automatic picture (screen) brightness control. The Light Sensor meas the room brightness which allows the TV to automatically adjust the backlight bright based on the picture settings and the ambient room light conditions. | |
| | | |
| | Be sure not to put anything around the sensor, as its function may be affected (see page 18). In low light the range of the backlight control is reduced when the Light Sensor is set to On. | |
| PC Power Management | Select On to have the TV automatically enter standby mode when there is no signal in for more than 30 seconds. The STANDBY LED on the front panel illuminates with th On option. Select Off to disable this feature. Press POWER to exit from standby mode. PC Power Management is not VESA-compliant. | |
| | | |
| | | |
| | | |
| Logo Illumination | Select On to illuminate the SONY logo on the front panel or select Off to disable this function. | |
| Picture Adjustments Lock | Select Lock to prevent the picture adjustments from being changed. To disable this feature and allow picture adjustments, select Unlock . | |



If you missed the **Initial Setup** when you first connected the TV or if you want to scan all receivable channels, select **Initial Setup**. Follow the instructions on the screen. Some settings such as **Picture Adjustments**, **Sound Adjustments**, and **Parental Lock** will not be affected by this **Initial Setup**. If you wish to return your TV to factory settings, please see the Troubleshooting section on page 56.

Þ

• Favorite channel list will be cleared each time you run the Initial Setup.

Troubleshooting

If you have questions, service needs, or require technical assistance related to the use of your Sony TV, please visit our website or call one of the following numbers: http://www.sony.com/tvsupport for US Support http://www.sony.ca/support for Canadian Support 1-800-222-SONY(7669) for US Support 1-877-899-SONY(7669) for Canadian Support

| Condition | Explanation/Solution | |
|---|--|--|
| No picture | | |
| No picture | • Check the Power Saving settings (see page 52). | |
| Cannot receive any channels | Make sure the power cord is connected securely. Turn on the power of the TV. Check cable/antenna connections. Make sure the Signal Type setting is correct for your TV signal source. | |
| TV is locked to one channel | • Perform Auto Program to add receivable channels that are not present in the TV's memory (see pages 16 and 46). | |
| Cannot receive or select channels | Perform Auto Program to add receivable channels that are not present in the TV's memory (see pages 16 and 46). To receive or select cable channels, make sure that Signal Type in the Channel settings is set to Cable (see page 46). To receive or select UHF channels over an antenna, make sure Signal Type is set to Antenna. | |
| The TV turns off automatically | Check if Sleep Timer is activated, or confirm the Duration setting of Timer (see page 40). Check PC Power Management in General Setup settings (see page 52). | |
| No picture from some video sources | Check the connection between the optional video equipment and the TV. Press INPUT on the remote control (see page 22). Press HOME on the remote control. Select your desired input from the External Inputs list. | |
| Poor picture | | |
| Picture quality not as good as viewed at the store | • Picture quality depends on the signal content. See Quick Setup Guide (supplied) to display the best possible picture for that signal. | |
| Broadcast HD formats have poor quality | Content and signal quality are regulated by the signal provider. Many HD channels and content are actually upscaled versions of standard-definition broadcasts. The picture is affected by the quality of the signal received, which varies between channel and program. Confirm the picture quality by selecting Signal Diagnostics in the Product Support settings (page 40). Then select Sample Image (or Additional Information first). An HD image will display on the screen to confirm routine panel operation. If your normal picture quality is worse than this sample image, it is most likely due to the signal provided by the broadcaster. | |
| Double images or ghosts• Check cable/antenna connections.• Check the antenna location and direction.• Set the Motion Enhancer to Standard or Off (see page 42). | | |
| Only snow and noise appear on the screen | Check if the antenna is broken or bent. Check if the antenna has reached the end of its serviceable life. (3-5 years in normal use, 1-2 years at the seaside.) | |
| Dotted lines or stripes | Keep the TV away from noise sources such as cars, motorcycles, or hair-dryers. If using 300 ohm twin lead, move the excess lead away from the TV or try using 75 ohm coaxial cable instead. | |

| Condition | Explanation/Solution |
|---|---|
| No color / Dark picture / Color is not correct / The picture is too bright | Press PICTURE to select the desired Picture Mode (see page 22). Adjust the Picture Mode options in the Picture settings (see page 41). If you set the Power Saving mode to Low or High, it will enhance the black level (see page 52). |
| Noisy picture | Make sure that the antenna is connected using a 75-ohm coaxial cable. Keep the antenna cable away from other connecting cords. To avoid TV interference, make sure to use an undamaged antenna cable. |
| Blurry picture / Poor color | • Transporting the TV from a cold to a warm location or a sudden change in room temperature may cause moisture condensation, resulting in a blurry picture or poor color. Turn off your TV and wait a few hours before powering on again. |
| No sound / Noisy sound | |
| No sound / Good picture | Check the volume control. Press MUTING or VOL + so that "Muting" disappears from the screen (page 20). Set Speakers to TV Speakers in the Sound settings (see page 44). If it is set to Audio System, sound is not output from the TV's speakers regardless of the TV's volume control. When using HDMI input with Super Audio CD or DVD-Audio, DIGITAL AUDIO OUT (Optical) may not provide an audio signal. When tuned to a digital channel with Alternate Audio, the broadcaster may not be broadcasting your preferred Alternate Audio language. Press OPTIONS, highlight and select Alternate Audio, and change the Alternate Audio language (see page 44). |
| Audio noise | Make sure that the antenna is connected using a 75-ohm coaxial cable. Keep the antenna cable away from other connecting cords. To avoid TV interference, make sure to use an undamaged antenna cable. |
| No Audio or Low Audio with Home Theater System | Press THEATER for BRAVIA Sync activated Theater System (see page 19). Set Speakers to Audio System in the Sound settings (see page 44). Set Audio Out to Fixed in the Sound settings (see page 44). |
| BRAVIA Sync | |
| Cannot find connected BRAVIA Sync HDMI device | • Make sure that the Control for HDMI is set up on both the TV and the optional device compatible with BRAVIA Sync (see page 36). |
| Cannot control second AV receiver | • Only one A/V receiver may be used with the BRAVIA Sync and Control for HDMI functions at one time (see page 50). |
| DLNA | |
| DLNA Certified™ Photo Media Player is not connecting to the server | Check the LAN cable/connection to your server and your TV. Check if your network is properly configured on your TV. See Network Setup on page 51. |
| When "Network disconnected" appears on your TV screen | Check the current network settings. From the Network icon located on the XMB_{TM}, select Network Setup, then the Review option. If all of your network settings are 0.0.0.0, your server may not be connected properly. Check your network connections and/or server's instruction manual for connection information. Reconfigure your network settings. See Network Setup on page 51. If the LAN cable is connected to an active server and the TV has acquired an IF Address, check your DLNA Certified media server's connections and configurations. Your IP Address configuration can be viewed by selecting the Review option. |
| DLNA Certified [™] server is listed under the Photo icon, but is inaccessible | See Network Setup on page 51. The TV may have lost connection with the server, check your LAN cable/ connection or your server connections. |

| ondition | Explanation/Solution | |
|--|---|--|
| C Input | | |
| No picture / No signal | Confirm the PC is correctly connected to the TV with either the PC IN (with an HD15 cable) or with the HDMI IN. Ensure the output signal from the PC is one of the formats listed on page 14. Turn the PC off. Confirm the PC connection and restart the PC. Plug-and-play will auto-detect the TV and correctly set up PC timing. Verify PC Power Management is activated (see page 52). Verify the PC is not in standby or hibernation mode. | |
| Poor Picture | Adjust the resolution (see page 14). Adjust Pitch and Phase. | |
| eneral | | |
| Wide Mode changes automatically | The current Wide Mode setting is automatically replaced with the 4:3 Default setting when you change the channel or video input, if 4:3 Default in the Screen settings is set to other than Off. If you want to lock in Wide Mode selected with WIDE on the remote control, set 4:3 Default to Off in the Screen settings (see page 44). Check the Auto Wide option in the Screen settings (see page 44). | |
| Suddenly the picture gets smaller | The picture gets smaller during the commercials due to the method in which the provider broadcasts their content. When HD content channels switch to SD content (commercials), the picture may be small with a black border. Auto Wide will not expand the picture during these content changes since the content information is regulated by the channel signal provider. You can manually change the Wide Mode if you prefer (see page 21). This setting will remain in effect until you change the channel or input or manually change the Wide Mode again. | |
| "Black box" on screen | • You have selected a text option and no text is available (see page 47). To turn off this feature, set the CC Display option to Off . If you were trying to select closed captioning, select CC1 instead of Text1-4 . | |
| Black bands appear at the edges of the screen | Some wide screen programs are filmed in aspect ratios that are greater than 16:9 (this is especially common with theatrical releases). Your TV will show these programs with black bands at the top and bottom of the screen. For more details, check the documentation that came with your DVD (or contact your program provider). Programs in 4:3 aspect ratio will have bands on left and right sides of the screen. Programs broadcasted in HD formats (720p and 1080i) with 4:3 content will commonly have black bands on the left and right sides of the screen which are added by the broadcaster (see image on left). Auto Wide will not expand the picture when the black bands on the sides of the screen are added by the broadcaster. You can manually change the Wide Mode to Wide Zoom, H Stretch or Zoom to fill the screen, which will remain in affect until you change the channel or input or manually change the Wide Wide Mode to Wide Wide Wide the screen when the channel or input or manually change the Wide Wide Mode to Wide Wide Wide Wide Wide Wide Wide Wide | |
| Certain programs on DVD or other digital sources display a loss of detail, especially during fast-motion or dark scenes | a digital broadcasts and DVDs which may cause your TV's screen to display le | |
| Remote control does not operate | To determine if the problem is with the remote control or not, press a button on the TV. Check the polarity of the batteries or replace the batteries. Point the remote control at the remote control sensor located at the front of the TV. Keep the remote control sensor area clear from obstacles. Fluorescent lamps can interfere with your remote control operation; try turning off the fluorescent lamps. | |

(Continued)

| ondition | Explanation/Solution | |
|---|--|--|
| Some digital cable channels are not being displayed | Certain cable companies have limitations on the broadcast of digital cable channels. Check with your cable company for more information. The digital cable channel may be set to Hidden in the Show/Hide Channels setting (see page 46). | |
| Some photo files or music files are not displayed from my USB equipment or DLNA Certified media server | • The accessible file or folder limit in a directory is 1,000 for USB and 30,000 for a DLNA Certified media server. This limit includes non-JPEG, MP3 files or just folders. Files or folders are populated based on their time stamps. Photo, music files or folders exceeding the limit will not be displayed. | |
| Photo images appear small in the screen | Set Display Size to Expanded (see page 31). Whether or not photo images can or cannot be displayed in full-screen depends on the resolution or aspect ratio of the file. | |
| Photo images or folders take time to display | Depending on the image dimension, file size, and number of files in a folder, some photo images or folders take time to display. The first time a camera is connected to the TV via USB cable, it may take up to a couple of minutes for the photos to display. | |
| Lost password | • Select the Password settings on the Parental Lock settings, then enter the following master password: 4357. This password clears your previous password and allows you to enter a new password (see page 47). | |
| How to reset the TV to factory settings | • Turn on the TV. While holding down ★ on the remote control, press POWER on the TV. (The TV will turn itself off, then back on again.) Release ★. WARNING: The reset will clear all of your customized settings including the Parental Lock setting. | |
| The speaker grill is loose | • Orient the speaker grill so that the location of the marks on the speaker grill ar TV match, insert the protrusions on the speaker grill into the holes on the TV, and support gently. Check that the speaker grill and TV are in contact without any gaps, and then secure it by pushing and sliding the speaker grill left into place. | |
| | | |

| TV screen feels warm | • Due to the thin profile of this television, the heat generated by the LCD panel backlight and supporting electronics will be more noticeable. This is normal operation and not a cause for concern. |
|----------------------|---|

Specifications

| Model | KDL-40XBR6 | KDL-46XBR6 | KDL-52XBR6 | |
|------------------------------------|---|--|--|--|
| System | L | | | |
| Television system | NTSC: American TV standard ATSC (8VSB terrestrial): ATSC cc QAM on cable: ANSI/SCTE 07 20 | 00 (Does not include CableCARD funct | ionality) | |
| Channel coverage | Analog terrestrial: 2 - 69 / Digital terrestrial: 2 - 69 Analog Cable: 1 - 135 / Digital Cable: 1 - 135 | | | |
| Panel system | LCD (Liquid Crystal Display) Pan | el | 1 | |
| Speaker output | 8W (L) + 8W (R) + 11W (Assist V | Voofer) | 10W (L) + 10W (R) + 15W (Assist Woofer) | |
| Input/Output jacks | | | | |
| CABLE/ANTENNA | 75-ohm external terminal for RF in | 1 | | |
| VIDEO IN 1/2/3 COMPONENT IN 1/2 | S VIDEO (4-pin mini DIN) (VIDEO 1 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 YPBPR (Component Video): Y: 1.0 Vp-p, 75 ohms unbalanced, sync negative / PB: 0.7 Vp-p, 75 ohms / | | | |
| | AUDIO: 500 mVrms (Typical) / In | | | |
| HDMI IN 1/2/3/4 | and 24bits, Dolby Digital | 0i, 1080p, 1080/24p / Audio: Two channe Vrms (Typical) / Impedance: 47 kilohms | | |
| AUDIO OUT | 500 mVrms (Typical) | | | |
| DIGITAL AUDIO OUT (OPTICAL) | PCM/Dolby Digital optical signal | | | |
| PC IN | D-sub 15-pin, analog RGB, 0.7 Vp See the PC Input Signal Reference | | | |
| PC AUDIO INPUT | Stereo mini jack, 500 mVrms, (Typ | | | |
| LAN (10/100) | 10 BASE-T/100 BASE-TX Conner product does not guarantee network | 10 BASE-T/100 BASE-TX Connector speed may vary depending on the network environment. This product does not guarantee network quality or speed of 10 BASE-T/100 BASE-TX terminals.) | | |
| DMPORT | VIDEO: 1 Vp-p, 75 ohms unbalanced, sync negative AUDIO: 500 mVrms (Typical) / Impedance: 47 kilohms | | | |
| USB | Hi-Speed USB | * | | |
| Power and others | | | | |
| Power requirement | 120 V AC, 60 Hz | | | |
| Power consumption | | | | |
| in use | 225 W | 285 W | 295 W | |
| in standby | All models less than 0.2 W* | | 1.74 | |
| Screen size | 40 | 46 | 52 | |
| (inches measured diagonally) | 1.020 data (haning stal) at 1.020 lin | | | |
| Display resolution | 1,920 dots (horizontal) × 1,080 line 34 × 104 | es (vertical) | | |
| Speaker/Front (2) (mm) (inches) | $1^{3}/8 \times 4^{1}/8$ | | | |
| Tweater (2) (mm) ø (inches) ø | $30 \\ 1^{1}/8$ | | | |
| Assist Woofer (mm) | 50×100 | | 55 × 120 | |
| (inches) | 2×4 | | $2^{1}/8 \times 4^{3}/4$ | |
| Dimensions (W x H x D) | | | | |
| with stand (mm) (inches) | 953 x 684 x 279 37 ⁵ /8 x 27 x 11 | 1089 x 765 x 307 42 ⁷ /8 x 30 ¹ /8 x 12 ¹ /8 | 1257 x 874 x 346 49 ¹ /2 x 34 ¹ /2 x 13 ⁵ /8 | |
| without stand (mm) | 953 x 645 x 103 | 1089 x 723 x 104 | 1257 x 831 x 127 | |
| (inches) | 37 ⁵ /8 x 25 ¹ /2 x 4 ¹ /8 | 42 ⁷ /8 x 28 ¹ /2 x 4 ¹ /8 | 49 ¹ /2 x 32 ³ /4 x 5 | |
| wall-mount hole pattern (mm) | 300×300 | | | |
| wall-mount screw size | M6 (length: refer to diagram on pa | ge 7) | | |
| Mass with stand (kg) | 20.0 | 23.5 | 35.5 | |
| (lb.) | 45.0 | 52.0 | 79.0 | |
| without stand (kg) (lb.) | 23.5 52.0 | 28.0 62.0 | 42.5 94.0 | |
| Supplied accessories | Remote control RM-YD024 (1) / S | ize AA batteries (2) / AC power cord (1) | / Cable holder (1 attached to the Table- | |
| | | s (1) / Quick Setup Guide (1) / Warranty | | |
| | | BR only: Attaching the Table-Top Stand | | |
| Optional accessories | Connecting cables / Support Belt k page 2 | Kit / Colour Variation Unit / Wall-Mount | Bracket: SU-WL500 / TV Stand: see | |

* While the TV is collecting TV Guide data and/or during software update the power consumption is less than 30 W. Þ

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

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| For Your Convenience | | | | |
|--|---|--|--|--|
| Please contact Sony Customer Support directly if you: Have questions on the use of your television after reading your Operating Instructions manual and Quick Setup Guide Experience difficulty operating your television For United States | | | | |
| http://www.sony.com/tvsupport | | | | |
| or to speak with a support representative: 1-800-222-SONY (7669) | | | | |
| For Canada | | | | |
| http://www.sony.ca/support | | | | |
| or to speak with a support representative: 1-877-899-SONY (7669) | | | | |
| Sony will work to resolve your questions more quickly than your retailer or place of purchase. | | | | |
| Please Do Not Return the Product to the Store | | | | |
| On-line Registration Available: Be sure to register your TV. United States http://productregistration.sony.com | Canada http://www.sonystyle.ca/registration | | | |



Body pages printed on recycled paper. http://www.sony.net/

