Television

Reference Guide

Lea este manual antes de usar el producto

Centro de Asistencia de Sony
http://esupport.sony.com/ES/LA/

Llame al número telefónico que aparece en su póliza de garantía.

Por favor no devuelva el producto a la tienda donde adquirió el producto.
Introduction
Thank you for choosing this Sony product. Before operating the TV, please read this manual thoroughly and retain it for future reference.

Note
• Images and illustrations used in the Setup Guide and this manual are for reference only and may differ from the actual product.

The 43" class has a 42.5 inch (108.0 cm) viewable image size (measured diagonally).

Location of the Setup Guide
Setup Guide is placed on top of the cushion inside the TV carton.

Help Guide
Help Guide explains the information on how to use the TV’s features. To display Help Guide on the TV, press HELP on the remote control and select [Help Guide].

Location of the identification label
Labels for the TV Model No. and Power Supply rating are located on the rear of the TV.

IMPORTANT NOTICE

Owner’s Record
The model and serial numbers are located at the side and 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.

IMPORTANT NOTICE TO MEXICO

This equipment operation is subject to the following two conditions: (1) It is possible that this equipment or device may not cause harmful interference, and (2) this equipment or device must accept any interference, including interference that may cause undesired operation.

For information related to certificate number, refer to the package label and/or product.

CAUTION
To prevent electric shock and blade exposure, do not use this AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted.
• Operate the TV only on 110 V - 240 V AC.

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.
WARNING

Never place a television set in an unstable location. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls.

If your existing television set is being retained and relocated, the same considerations as above should be applied.

Before setting up your TV

Some TV models are packaged with a detached Table-Top Stand so you can mount your TV to a wall right away. See page 12 (Installing the TV to the Wall) if you want to mount the TV to a wall. If you are not mounting the TV to a wall, you will need to attach the Table-Top Stand. You will need a Phillips screwdriver (not supplied) and the supplied screws to complete the task. Look for the Setup Guide.

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

- Disconnect all cables when carrying the TV.
- Carry the TV with the adequate number of people; larger size TVs require two or more people.
- Correct hand placement while carrying the TV is very important for safety and to avoid damage.

- Ensure your TV has adequate ventilation, see page 14.
- For best picture quality, do not expose the screen to direct illumination or sunlight.
- Avoid installing the TV in a room with reflective wall and floor materials.
- Avoid moving the TV from a cold area to a warm area. Sudden room temperature changes may cause moisture condensation. This may cause the TV to show poor picture and/or poor color. Should this occur, allow moisture to evaporate completely before powering the TV on.

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.

Preventing the TV from Toppling

- 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.
- 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.

Recommended Measures to Secure the TV

Consider the following measures when securing your TV to a Stand (not supplied).

1. Secure the Stand for the TV.
- Make sure the 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 Stand.

- Angle brace (not supplied)
2. Secure the TV to the Stand.
Use the optional hardware listed as follows (not supplied):
• M6 machine screws (screwed into the TV’s rear cover).
• A screw or similar (attach it to the 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.

3. Anchor the TV to the wall by using bolts, wall anchor and chain (or rope).

Note
• Your TV is shipped with screws attached to the rear of the TV depending on the TV model. (They are fastened in the screw holes for wall mounting.) Be sure to remove the upper two screws prior to anchoring the TV to a wall.
• Securing the TV to the stand without securing the TV and the stand to the wall provides minimum protection against the TV toppling over. For further protection, be sure to follow these three measures recommended.
How to care for your BRAVIA TV

Safety is very important. Please read and follow the safety documentation (Safety Booklet) separately provided.

Unplug the TV and other connected equipment from the wall outlet before you begin cleaning your TV.

• Wipe the LCD screen gently with a soft cloth.
• Stubborn stains may be removed with a cloth slightly moistened with a solution of mild soap and warm water.
• If using a chemically pretreated cloth, please follow the instruction provided on the package.
• Never spray water or detergent directly on the TV set. It may drip to the bottom of the screen or exterior parts and enter the TV set, and may cause damage to the TV set.
• Never use strong solvents such as a thinner, alcohol or benzine for cleaning.
• Do not plug in the TV into the wall outlet until the moisture from cleaning has evaporated.
• Never touch the TV if your hand is covered in any chemical substance such as hand cream or sunblock.

The TV should also be placed on a stable surface to prevent it from toppling over (see page 3). If you have young children or pets at home, check regularly to ensure the TV is securely fastened.

Recommendation for an F type plug

Projection of the inner wire from the connection part must be less than 1.5 mm.

(Reference drawing for an F type plug)
The BRAVIA® 4K TV Experience

Thank you for choosing Sony! Your new BRAVIA TV opens the door to the "4K TV Experience." This document will help you get the most out of your TV. Please take a moment to register your TV at: http://esupport.sony.com/LA/perl/registration.pl

Four Steps to a 4K TV Experience

Set, Source, Sound, and Setup.

1 Set

Now that you have made the best selection in LED backlit LCD TV technology, be sure to remove all of the accessories from the packaging before setting up your TV.

2 Source

To experience the stunning detail of your BRAVIA TV, you need access to HD programming.

• Upgrade your signal or content source to high-definition (HD) by contacting your HD service provider.
• Receive over-the-air HD broadcasts with an HD-quality antenna connected directly to the back of your TV.
• Discover the wealth of entertainment now available on super-high resolution Blu-ray Disc™ player and other Sony HD equipment.

3 Sound

Complete the high-definition experience with a BRAVIA Sync™ surround sound system or A/V receiver from Sony.

4 Setup

Install your TV and connect your sources. See page 10 for sample connection diagrams. To help assure the highest quality for your HD experience, use Sony HDMI (High-Definition Multimedia Interface) cables.

This TV displays all video input signals in a resolution of 3,840 dots x 2,160 lines.

The following chart shows the high-definition (HD) and standard-definition (SD) video formats supported by your BRAVIA TV inputs.

<table>
<thead>
<tr>
<th>INPUT</th>
<th>VIDEO</th>
<th>AUDIO</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI</td>
<td>4K*</td>
<td>1080p/24p/30p</td>
</tr>
<tr>
<td>HDMI</td>
<td>HD</td>
<td>720p/24p/30p</td>
</tr>
<tr>
<td>COMPONENT</td>
<td>Y Pb Pb</td>
<td>Audio L/R</td>
</tr>
<tr>
<td>SD VIDEO</td>
<td>Composite video connection</td>
<td>Audio L/R</td>
</tr>
</tbody>
</table>

*1 For details of supported formats, refer to the "Specifications" in this manual.
*2 For supported PC formats refer to the Help Guide.
Parts and Controls

Controls and Indicators

1. (Power) /+/−
   When the TV is off,
   Press (Power) to power on.
   When the TV is on,
   Long press (Power) to power off.
   Press (Power) repeatedly to change the function, then press + or – button to:
   • Adjust the volume.
   • Select the channel.
   • Select the input source of TV.

2. Remote Control sensor* / Light sensor* / Illumination LED
   The illumination LED lights up or blinks according to the status of the TV.
   • White
     When turning on the TV/picture off mode/software update, etc.
   • Cyan
     When connecting with a mobile device wirelessly.
   • Amber
     Timer is set.

* Do not place anything near the sensor.
Using Remote Control

Remote Control Parts Description
The remote control shape, location, availability and function of remote control button may vary depending on your region/country/TV model.

1. INPUT
Display and select the input source.

ϕ (Microphone)
Use Voice Function. (e.g., Search various content by voice.)

POWER
Turn on or turn off the TV (standby mode).

SYNC MENU
Display the BRAVIA Sync Menu.

2. Number buttons
Use with the 0-9 buttons to select digital channels.

DISPLAY
Display information about the channel/program/input you are viewing.

3. Google Play
Access the “Google Play” online service.

NETFLIX (Only on limited region/country/TV model)
Access the “NETFLIX” online service.
Color buttons
 Execute corresponding function at that
time.

4 ACTION MENU
 Display a list of contextual functions.

TV
 • Switch to a TV channel or input from
   other applications.
 • Turn on the TV to display TV channel
   or input.

GUIDE
 Display the digital program guide.

BACK
 Return to previous screen.

HOME
 Display the TV Home Menu.

DISCOVER
 Bring up the Content Bar to search for
content.

+/– (Item select/Enter)

5 VOL +/- (Volume)
 Adjust the volume.

JUMP
 Jump back and forth between two
channels or inputs. The TV alternates
between the current channel or input
and the last channel or input that was
selected.

MUTING
 Mute the sound. Press again to restore
the sound.

CH +/- (Channel)
 Select the channel.

6 AUDIO
 Change the language for the program
currently being viewed.

◄/►/►►/◄◄/II/◄/►/◄/►
 Operate media contents on TV and
connected BRAVIA Sync-compatible
device.

SUBTITLE/CC
 Turn subtitles on or off (when the
feature is available).

HELP
 Display Help Menu. Help Guide can be
accessed from here.

WIDE
 Change the screen format.

PIC OFF
 Turn the picture off, while sound
remains on.

Guidelines for IR Remote Control
 • 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.

IR Blaster Setup
 • Follow the on-screen instructions to
perform IR Blaster setup during initial
setup.
 • To perform IR Blaster setup later, press
the HOME button, then select
[Settings] → [External inputs] → [IR
Blaster setup].
Connection Diagram

For more information on connections, refer to the Help Guide (page 2).

Note
• When connecting the cable to the Cable/Antenna, input finger tighten only, over tightening the connection can damage the TV.
1 AUDIO OUT*5
   To listen to the TV's sound through the connected equipment, press HOME.
   Select [Settings] → [Sound] → [Headphone/Audio out] and then select the desired item.

2 USB 1/2, USB 3
   • Connecting a large USB device may interfere with other connected devices beside it.
   • When connecting a large USB device, connect to the USB 1 port.

3 HDMI IN 1/2/3/4
   If connecting a digital audio system that is compatible with Audio Return Channel (ARC) technology, use HDMI IN 3. If not, an additional connection with DIGITAL AUDIO OUT (OPTICAL) is necessary.

4 VIDEO IN 1
   For a composite connection, use the supplied Analog Extension Cable*6.

*1
< 12 mm
< 21 mm

*2

*3

*4 When connecting mono equipment, connect to the L (MONO) audio jack (socket).
*5 Supports 3-pole stereo mini jack only.
*6 Only on limited region/country/TV model.
Installing the TV to the Wall

This TV’s instruction manual only shows the steps on preparing the installation of the TV before installing to the wall.

Your TV can be mounted on a wall using a Wall-Mount Bracket (not supplied) out of the box as packaged. If the Table-Top Stand is attached to the TV, the TV may require detaching the Table-Top Stand; see page 13 (Detaching the Table-Top Stand from the TV). Prepare the TV for the Wall-Mount Bracket before making cable connections.

For product protection and safety reasons, Sony strongly recommends that installation of your TV on the wall be performed by qualified professionals. Do not attempt to install it yourself.

• Follow the instruction guide provided with the Wall-Mount Bracket for your model. Sufficient expertise is required in installing this TV, especially to determine the strength of the wall for withstanding the TV’s weight.
• The length of the screw for Wall-Mount Bracket differs depending on the Wall-Mount Bracket thickness. Please see below illustration.

8 mm - 12 mm

- Screw
- Wall-Mount Bracket
- TV’s rear cover

• 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.

Note
• Read the supplied Safety Booklet for additional safety information.

Removing the screws from the rear of the TV
Detaching the Table-Top Stand from the TV

To detach the Table-Top Stand from the TV, remove the screws.

Note
- Do not remove the Table-Top Stand for any reason other than to install corresponding accessories on the TV.
- Be sure the TV is vertical before turning on. To avoid uneven picture uniformity do not power on the TV with the LCD panel facing down.
- When attaching the Table-Top Stand again, be sure to fasten the screws (previously removed) to the original holes on the rear of the TV.
Installing the TV against a wall or enclosed area

Make sure that your TV has adequate ventilation. Allow enough space around the TV as shown in the illustration.

**Installed with stand**

![Diagram of TV installed with stand]

Leave at least this much space around the set.

**Installed on the wall**

![Diagram of TV installed on the wall]

Leave at least this much space around the set.

Never install the TV set as follows:

- Air circulation is blocked.
- Air circulation is blocked.

**Note**

- Inadequate ventilation can lead to overheating of the TV and may cause damage to your TV or cause a fire.
Troubleshooting

In order to keep your TV software up-to-date, it is necessary to download the latest software information via the digital broadcasting system or internet and to update the software. Select [Update Now] to start a software update. The illumination LED flashes white while the software is updating.

The following screen with [Updating...] will appear while software is updating.

Do not unplug the AC power cord during the software update. If you do, the software update may not finish completely, and it may cause a software malfunction.

Software updates can take up to 30 minutes. If you do not wish to update the software automatically, press HOME and select [Help] → [System software update] → [Automatic software download] → [Off].

When you plug in TV, the TV may not be able to turn on for a while even if you press the power button on the remote control or the TV, because it takes time to initialize the system. Wait for about one minute, then operate it again.

When you turn on by pressing the power button on the remote control or the TV, it takes some time to turn on the illumination LED and for the remote control to be functional.

When the illumination LED is flashing red, count how many times it flashes (interval time is three seconds).

If the illumination LED flashes red, reset the TV by disconnecting the AC power cord for two minutes, then turn on the TV. If the problem persists, contact Sony Customer Support (information provided on the front cover) with the number of times the illumination LED flashes red (interval time is three seconds). Disconnect the AC power cord, and contact Sony Customer Support.

When the illumination LED is not flashing, check the items as follows.

You can also refer to troubleshooting in the Help Guide or perform self-diagnosis by selecting [Help] → [Self diagnostics]. If the problem persists, contact Sony Customer Support (information provided on the front cover).

Troubles and Solutions

There is no picture (screen is dark) and no sound.

• Check the cable/antenna connection.

Some programs cannot be tuned.

• Check the cable/antenna connection.

The remote control does not function.

• Replace the batteries.

The [Parental lock (Broadcast)] password has been forgotten.

• Enter 4357 for the PIN code. Update PIN code by selecting [Settings] → [Parental lock (Broadcast)] → [Change password].

The TV and its surroundings become warm.

• When the TV is used for an extended period of time, the TV and its surroundings may become warm to the touch. This is not a malfunction of the TV.

How to reset the TV to factory settings

• Turn on the TV. You can reset the TV to factory settings by pressing HOME, then select [Settings] → [Storage & reset] → [Factory data reset].

WARNING: The reset will clear all of your customized settings including the [Parental lock (Broadcast)] setting.

• For security purposes, be sure to remove all personal and account information before discarding, selling or passing your TV to someone else by: unlinking/unregistering, signing out of and deactivating all network services as well as factory reset the TV.

Frozen audio or video, a blank screen, or the TV does not respond to TV or remote control buttons.

• Perform a simple reset of the TV by unplugging the AC power cord for two minutes, then plug it in again.
The △, + and – buttons cannot be located on the TV.
• See below illustration for location of the buttons on the TV.

Rear of TV

The illumination LED is turned on.
• If you do not wish to light up the illumination LED, you can turn it off.
Press HOME, then select [Settings] → [Illumination LED] → [Off].

Cannot connect to a wireless router by WPS (Wi-Fi Protected Setup).
• If you use WEP security, select [Easy] → [Wi-Fi] → [Connect by scan list]. Then, select the network name (SSID) you want to connect.

Cannot find the required network name in network setup.
• Select [[Manual entry]] and press  to enter network name.

Specifications

System
Television system
NTSC: American TV standard
ATSC (BVSB terrestrial); ATSC compliant BVSB QAM on cable: ANSI/SCTE 07 2000 (Does not include CableCARD functionality)
Channel coverage
Analog terrestrial: 2 - 69 / Digital terrestrial: 2 - 69
Analog Cable: 1 - 135 / Digital Cable: 1 - 135
Panel system
LCD (Liquid Crystal Display) Panel, LED
Backlight
Speaker output
10 W + 10 W
Wireless technology
Protocol IEEE802.11ac/a/b/g/n
Bluetooth Version 4.1

Input/Output jacks
CABLE/ANTENNA
75-ohm external terminal for RF inputs

VIDEO IN 1
Video/Audio input (mini jack)

COMPONENT IN
YPbPr (Component Video): 1080p (60 Hz), 1080i (60 Hz), 720p (60 Hz), 480p, 480i
Audio input (phono pin jack)

VIDEO IN 2
Video input (common phono pin with Y input)

HDMI IN 1/2/3/4 (Support 4K resolution, HDCP 2.2-compatible)
Video:
4096 × 2160p (60 Hz)*1, 4096 × 2160p (24 Hz)*1, 4096 × 2160p (60 Hz)*2,
3840 × 2160p (24, 30 Hz), 1080p (30, 60 Hz),
1080/24p, 1080i (60 Hz), 720p (30, 60 Hz),
720/24p, 480p, 480i, PC Formats
*1 3840 × 2160p is displayed when 4096 × 2160p is input.
*2 HDMI IN 2 / 3 only.
Audio: 5.1 channel linear PCM: 32, 44.1, 48, 88.2, 96, 176.4 and 192 kHz, 16, 20 and 24 bits, Dolby Digital, Dolby Digital Plus and DTS
ARC [Audio Return Channel] (HDMI IN 3 only)
[Two channel linear PCM, Dolby Digital, Dolby Digital Plus, DTS]

DIGITAL AUDIO OUT (OPTICAL)
Digital optical jack (Two channel linear PCM, Dolby Digital, DTS)
AUDIO OUT (Stereo mini jack)
- Headphone, Audio output, Subwoofer
  - 1, 2, 3
- USB port 1 and 2 support High Speed USB (USB2.0).
- USB port 3 supports Super Speed USB (USB3.0).

LAN
- 10BASE-T/100BASE-TX connector
- Connection speed may differ depending on the network environment. 10BASE-T/100BASE-TX communication rate and communication quality are not guaranteed for this TV.

Home Network
- Refer to the Help Guide for supported formats.

IR BLASTER*1
- IR Blaster Cable input (mini jack)

Others
- Receptor IR (infrarrojo) con cable
- Optional accessories
  - Wireless Subwoofer: SWF-BR100
- Operating temperature
  - 0 ºC – 40 ºC

Power and others
- Power requirement
  - 110 V - 240 V AC, 50/60 Hz
- Power consumption
  - in use: 126 W
  - in standby*2
    - Less than 0.50 W with 120 V AC and less than 0.50 W with 240 V AC
- Screen size (measured diagonally) (Approx.)
  - 108.0 cm / 42.5 inches (43” class)
- Display resolution
  - 3,840 dots (horizontal) × 2,160 lines (vertical)
- Output Rating
  - USB 1/2
    - 5 V, 500 mA MAX
  - USB 3
    - 5 V, 900 mA MAX

Dimensions (Approx.)
- with stand
  - 960 × 612 × 216 mm
- without stand
  - 960 × 564 × 45 mm
- wall-mount hole pattern
  - 100 × 200 mm
- wall-mount screw size (mm)
  - M6 (length: see diagram on page 12.)

Mass (Approx.)
- with stand
  - 13.2 kg
- without stand
  - 12.3 kg

*1 Only on limited region/country/TV model.
*2 Standby power consumption will increase when your TV is connected to the network.

Note
- Optional accessories availability depends on countries/region/TV model/stock.
- Design and specifications are subject to change without notice.

Licensing Information
- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
- Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio, and the double-D symbol are trademarks of Dolby Laboratories.
- “BRAVIA” and BRAVIA Sync, and are trademarks or registered marks of Sony Corporation.
- Gracenote, Gracenote eyeq, Gracenote VideoID, Gracenote Video Explore, the Gracenote logo and logotype, and the “Powered by Gracenote” logo are either registered trademarks or trademarks of Gracenote in the United States and/or other countries.
- Opera® Devices SDK from Opera Software ASA. Copyright 1995-2015 Opera Software ASA. All rights reserved.
- Wi-Fi, Wi-Fi Direct, Miracast, Wi-Fi Protected Setup and Wi-Fi CERTIFIED Logo are trademarks or registered trademarks of Wi-Fi Alliance.
- For DTS patents, see http://patents.dts.com.
- Manufactured under license from DTS, Inc.
- DTS, the Symbol, & DTS and the Symbol together are registered trademarks, and DTS Digital Surround is a trademark of DTS, Inc. © DTS, Inc. All Rights Reserved.
• QuickSet and the QuickSet logo are trademarks of Universal Electronics Inc.
  Portions © UEI 2000 – 2015
• The Bluetooth® word mark and logos are registered trademarks owned by
  Bluetooth SIG, Inc. and any use of such marks by Sony Corporation is under
  license. Other trademarks and trade names are those of their respective
  owners.
• TUXERA is a registered trademark of
  Tuxera Inc. in the US and other
  countries.
• USB-IF SuperSpeed USB Trident logo is a registered trademark of USB
  Implementers Forum, Inc.

HDMI™

DOLBY AUDIO

gracenote

Opera

dts®
Digital Surround
## For Your Convenience

<table>
<thead>
<tr>
<th>Online Registration:</th>
<th>Be sure to register your TV.</th>
<th><a href="http://esupport.sony.com/LA/perl/registration.pl">http://esupport.sony.com/LA/perl/registration.pl</a></th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Updates:</td>
<td>Your TV is capable of receiving software updates. For the latest information about software updates for your TV, visit:</td>
<td><a href="http://esupport.sony.com/LA/">http://esupport.sony.com/LA/</a></td>
</tr>
<tr>
<td></td>
<td>NOTE: If your TV is connected to the Internet, you can check for software updates by selecting [Help], [System software update] and then [Check for a system software update].</td>
<td></td>
</tr>
</tbody>
</table>