

## Television

### Reference Guide



## BRAVIA

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**Internet Connection and Data Privacy**

This product connects to the internet during initial setup as soon as a network is connected in order to confirm internet connection, and later to configure the Home screen. Your IP address is used in these and all other internet connections. If you do not want your IP address be used at all, do not set-up the wireless internet function and do not connect an internet cable. Please refer to the privacy information presented in the set-up screens for further details of internet connections.

## Introduction

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

### Note

- Before operating the TV, please read the “Safety Information” (page 3).
- Images and illustrations used in the Setup Guide and this manual are for reference only and may differ from the actual product.
- Sales should be performed in accordance with current applicable local regulation. Product which cannot be used anymore should be utilized in accordance with current applicable local regulation.

## Location of the Setup Guide

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

## Help/Help Guide

Help feature offers a lot of information about your TV. To use the Help feature, press **HELP** on the remote control. You can find how to and troubleshooting from the list or keyword search. Select [Help Guide] on Help menu to view the manual. If you connect your TV to the internet, the Help feature and information will be updated.

## Location of the identification label

Labels for the TV Model No., Production Date (year/month) and Power Supply rating are located on the rear of the TV or package. They can be found by removing the center cover.

Дата изготовления указана на изделии и упаковке на этикетке со штрих-кодом в следующем формате: YYYY/MM, где YYYY - год, MM - месяц изготовления.

Дата виготовлення зазначена на виробі та упаковці на етикетці зі штрих-кодом у наступному форматі: YYYY/MM, де YYYY - рік, MM - місяць виготовлення.

**Өндіруші:** Сони Корпорейшн

**Өндіруші мекенжайы:** 1-7-1 Конан Минато-ку Токио, 108-0075 Жапония

KD-77A1

Жапонияда жасалған

KD-65A1 / KD-55A1

Словакияда жасалған

Өндіруші ел өнімде және қорапта көрсетілген.



Кеден одағы жеріндегі шетелден әкелуші: «Сони Электроникс» АҚ Ресей, 123103, Мәскеу, Карамышевский өтпе көшесі, 6

Қазақстан жеріндегі тұтынушылардың шағым-талаптарын қабылдауға уәкілетті ұйым «Сони Электроникс» АҚ Қазақстандағы Өкілдігі, 050010, Қазақстан Республикасы, Алматы қ., Достық даңғылы, 117/7 үй

## WARNING

TO PREVENT THE  
SPREAD OF FIRE, KEEP  
CANDLES OR OTHER OPEN  
FLAMES AWAY FROM THIS  
PRODUCT AT ALL TIMES.



## Для покупателей в России

Устройство предназначено только для использования в помещениях.

## Информация для покупателей в Украине

Уполномоченный представитель в Украине по вопросам соответствия требованиям технических регламентов:  
ООО «Сони Украина», ул. Ильинская, 8, г. Киев, 04070, Украина.

Оборудование отвечает требованиям:

- Технического регламента ограничения использования некоторых опасных веществ в электрическом и электронном оборудовании (постановление КМУ от 03.12.2008 № 1057);
- Технического регламента по электромагнитной совместимости оборудования (постановление КМУ от 16.12.2015 № 1077);
- Технического регламента низковольтного электрического оборудования (постановление КМУ от 16.12.2015 № 1067).

Настоящим Сони Корпорейшн заявляет, что телевизоры моделей KD-77A1, KD-65A1, KD-55A1 соответствуют Техническому регламенту радиооборудования и телекоммуникационного конечного (терминального) оборудования. Полный текст декларации о соответствии доступен в Интернете по адресу: [info@sony.ua](mailto:info@sony.ua).



## ВАЖНОЕ ПРИМЕЧАНИЕ

### Название продукта: Телевизор

Производитель: Сони Корпорейшн, 1-7-1 Конан Минато-ку Токио, 108-0075 Япония  
KD-77A1

Сделано в Японии.

KD-65A1 / KD-55A1

Сделано в Словакии.

Страна производства указана на изделии и упаковке.



Импортёр на территории стран Таможенного союза: АО «Сони Электроникс», Россия, 123103, Москва, Карамышевский проезд, 6

Организация, уполномоченная принимать претензии от потребителей на территории Казахстана  
АО «Сони Электроникс»  
Представительство в Казахстане,  
050010, Республика Казахстан, г. Алматы, пр. Достык, дом 117/7

## ВАЖЛИВА ПРИМІТКА

### Назва виробу: Телевізор

### Обладнання відповідає вимогам:

- Технічного регламенту обмеження використання деяких небезпечних речовин в електричному та електронному обладнанні (постанова КМУ від 03.12.2008 № 1057);
- Технічного регламенту з електромагнітної сумісності обладнання (постанова КМУ від 16.12.2015 № 1077);
- Технічного регламенту низьковольтного електричного обладнання (постанова КМУ від 16.12.2015 № 1067).

Справжнім Сони Корпорейшн заявляє, що телевізори моделей KD-77A1, KD-65A1, KD-55A1 відповідають Технічному регламенту радіообладнання і телекомунікаційного кінцевого (термінального) обладнання. Повний текст декларації про відповідність доступний в Інтернеті за такою адресою: [info@sony.ua](mailto:info@sony.ua).

Виробник: Сони Корпорейшн, 1-7-1 Конан Мінато-ку Токіо, 108-0075 Японія

KD-77A1

Вироблено в Японія.

KD-65A1 / KD-55A1

Вироблено у Словаччині.

Країна виробництва зазначається на виробі та пакуванні.

Уповноважений представник в Україні з питань відповідності вимогам технічних регламентів:

ТОВ «Соні Україна», вул. Іллінська, 8, м. Київ, 04070, Україна.

## ЕСКЕРТУ

### Өнім атауы: Телевизор

## Safety Information

### WARNING

Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

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.

### Installation/Set-up

Sufficient expertise is required when installing the TV to the Table-Top Stand.

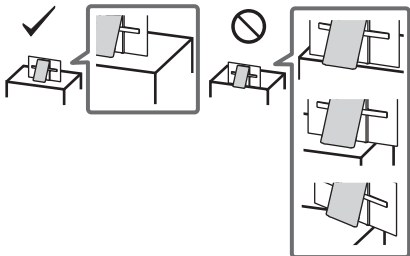
Refer to the Setup Guide supplied with the TV for stand installation.

Sony is not liable for any damage or injury caused by mishandling or improper installation.

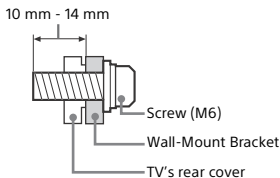
Install and use the TV set in accordance with the instructions below in order to avoid any risk of fire, electric shock or damage and/or injuries.

## Installation

- The TV set should be installed near an easily accessible mains socket.
- Place the TV set on a stable, level surface to prevent it from falling over and causing personal injury or property damage.
- Install the TV where it cannot be pulled, pushed, or knocked over.
- Install the TV so that the TV bottom does not protrude out from the TV stand (not supplied). If the TV bottom protrudes out from the TV stand, it may cause TV set to topple over, fall down, and cause personal injury or damage to the TV.

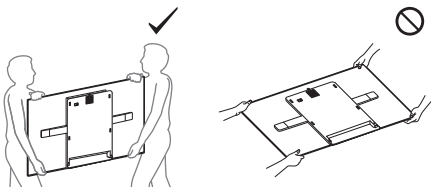


- For safety reasons, be sure to attach the center cover to the rear of the TV when TV in Table-Top condition.
- Only qualified service personnel should carry out wall-mount installations.
- For safety reasons, it is strongly recommended that you use Sony accessories, including:
  - Wall-Mount Bracket SU-WL450
- Be sure to use the screws supplied with the Wall-Mount Bracket when attaching the Wall-Mount Bracket to the TV set. The supplied screws are designed as indicated by illustration when measured from the attaching surface of the Wall-Mount Bracket. 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.

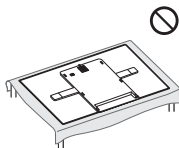


## Transporting

- Before transporting the TV set, disconnect all cables.
- Two or three people are needed to transport a large TV set.
- When transporting the TV set by hand, hold it as shown below. Do not put stress on the panel and the frame around the screen.



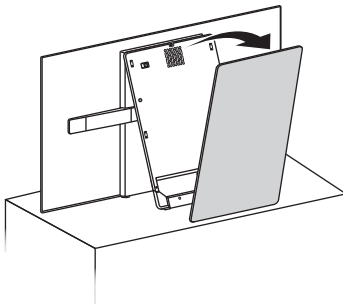
- When handling or mounting the TV set, do not lay down the TV.



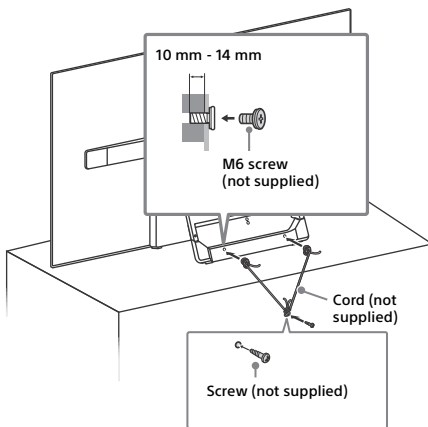
- When transporting the TV set, do not subject it to jolts or excessive vibration.
- When transporting the TV set for repairs or when moving, pack it using the original carton and packing material.

## Topple prevention

- 1 Remove the center cover.



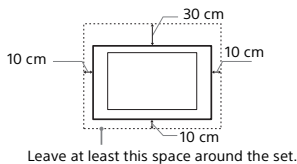
- 2 Secure the TV to the TV stand.



## Ventilation

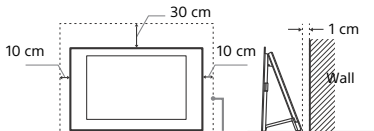
- Never cover the ventilation holes or insert anything in the cabinet.
- Leave space around the TV set as shown below.
- It is strongly recommended that you use a Sony Wall-Mount Bracket in order to provide adequate air circulation.

## Installed on the wall



Leave at least this space around the set.

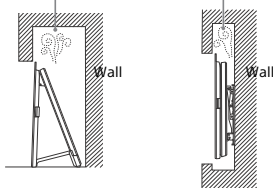
## Installed with stand



Leave at least this space around the set.

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

Air circulation is blocked.



## Mains lead

Handle the mains lead and socket as follows in order to avoid any risk of fire, electric shock or damage and/or injuries:

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

## Note

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

## Prohibited Usage

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

### Locations:

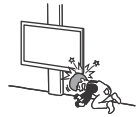
- Outdoors (in direct sunlight), at the seashore, on a ship or other vessel, inside a vehicle, in medical institutions, unstable locations, near water, rain, moisture or smoke.

### Environments:

- Places that are hot, humid, or excessively dusty; where insects may enter; where it might be exposed to mechanical vibration, near flammable objects (candles, etc.). The TV set shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the TV.

## Situations:

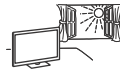
- Use when your hands are wet, with the cabinet removed, or with attachments not recommended by the manufacturer. Disconnect the TV set from mains socket and aerial during lightning storms.
- Install the TV so that it sticks out into an open space. Injury or damage from a person or object bumping into the TV may result.



- Place the TV in a humid or dusty space, or in a room with oily smoke or steam (near cooking tables or humidifiers). Fire, electric shock, or warping may result.



- Install the TV in places subject to extreme temperature such as in direct sunlight, near a radiator or a heating vent. The TV may overheat in such condition which can cause deformation of the enclosure and/or TV malfunction.



- If the TV is placed in the changing room of a public bath or hot spring, the TV may be damaged by airborne sulfur, etc.



- For best picture quality, do not expose the screen to direct illumination or sunlight.
- 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 colour. Should this occur, allow moisture to evaporate completely before powering the TV on.

## Broken pieces:

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

## When not in use

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

## For children

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

## If the following problems occur...

**Turn off** the TV set and unplug the mains lead immediately if any of the following problems occur.

Ask your dealer or Sony service centre to have it checked by qualified service personnel.

### When:

- Mains lead is damaged.
- Poor fitting of mains socket.
- TV set is damaged by being dropped, hit or having something thrown at it.
- Any liquid or solid object falls through openings in the cabinet.

## About TV Temperature

When the TV is used for an extended period, the panel surrounds become warm. You may feel hot when touching there by the hand.

## Precautions

### Viewing the TV

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

### OLED Screen

- Although the OLED screen is made with high-precision technology and 99.99 % or more of the pixels are effective, black dots may appear or bright points of light (white, red, blue, or green) may appear constantly on the OLED screen. This is a structural property of the OLED screen and is not a malfunction.
- Do not push or scratch the front filter, or place objects on top of this TV set. The image may be uneven or the OLED screen may be damaged.
- The screen and cabinet get warm when this TV set is in use. This is not a malfunction.
- When disposing of your TV be sure to follow your local laws and regulations.

### Handling and cleaning the screen surface/cabinet of the TV set

Be sure to unplug the mains lead connected to the TV set from mains socket before cleaning.

To avoid material degradation or screen coating degradation, observe the following precautions.

- To remove dust from the screen surface/cabinet, wipe gently with a soft cloth. If dust is persistent, wipe with a soft cloth slightly moistened with a diluted mild detergent solution.
- 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 any type of abrasive pad, alkaline/acid cleaner, scouring powder, or volatile solvent, such as alcohol, benzene, thinner or insecticide. Using such materials or maintaining prolonged contact with rubber or vinyl materials may result in damage to the screen surface and cabinet material.
- Do not touch the TV if your hand is covered in any chemical substance such as hand cream or sunblock.
- Periodic vacuuming of the ventilation openings is recommended to ensure to proper ventilation.
- When adjusting the angle of the TV set, move it slowly so as to prevent the TV set from moving or slipping off from its table stand.

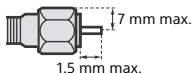


### Optional Equipment

- Keep optional components or any equipment emitting electromagnetic radiation away from the TV set. Otherwise picture distortion and/or noisy sound may occur.
- This equipment has been tested and found to comply with the limits set out in the EMC Directive using a connection signal cable shorter than 3 meters.
- This equipment has been tested and found to comply with the limits set out in the EMC Directive using a RF cable shorter than 30 meters for terrestrial/satellite/CATV terminal.

### Recommendation of F-type plug

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



(Reference drawing of the F-type plug)

### Wireless Function of the unit

- Do not operate this unit near medical equipment (pacemaker, etc.), as this may result in the malfunction of the medical equipment.
- Although this unit transmits/receives scrambled signals, be careful of unauthorised interception. We cannot be responsible for any trouble as a result.
- This equipment should be installed and operated keeping a separation distance of 20 cm or more between the antenna of this device and a person's body.

### Caution about handling the remote control

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

### Утилизация телевизора



**Утилизация отслужившего электрического и электронного оборудования (директива применяется в странах Евросоюза и других европейских странах, где действуют системы раздельного сбора отходов)**



**Утилизация использованных элементов питания (применяется в странах Евросоюза и других европейских странах, где действуют системы раздельного сбора отходов)**

### Утилізація телевізора



**Утилізація старого електричного та електронного обладнання (застосовується в Європейському союзі та інших європейських країнах із системами роздільного збирання сміття)**



**Переробка використаних елементів живлення (директива діє у межах країн Європейського Союзу та інших країн Європи зі системами роздільного збору відходів)**

## Теледидар құрылғысын лақтыру



Қызмет мерзімі біткен электр және электрондық жабдықты залалсыз жою (бағыттама қалдықтарды бөлек жинау жүйелері жұмыс істейтін Еуроодақ және басқа еуропа елдерінде қолданылады)



Пайдаланылған қоректену элементтерін залалсыз жою (қалдықтарды бөлек жинау жүйелері жұмыс істейтін Еуроодақ елдерінде және басқа еуропа елдерінде қолданылады)

## Protecting the TV Screen (OLED TV)

### Precautions to Protect the Screen from Damage


#### Image retention

OLED TV's are susceptible to image retention (burn-in) due to the characteristics of the materials used. Image retention may occur if images are displayed in the same location on the screen repeatedly or over extended periods of time. This is not a malfunction of the TV. Avoid displaying images that may cause image retention.

#### The following are examples of images that may cause image retention:

- Content with black bars either on the top and bottom and/or the left and right sides of the screen. (for example, Letterboxed, 4:3 screen, Standard definition)
- Static images such as photos.
- Video games that might have static content in some part of the screen.
- On-screen menus, programme guides, channel logos etc.
- Static content from applications.
- On-screen tickers, such as those used for news and headlines.

#### To reduce the risk of image retention:

- Sony recommends that you turn off the TV normally by pressing the power button on the remote control or the TV.
- Fill the screen by changing [Wide mode] to eliminate the black bars. Select [Wide mode] other than [Normal].
- Turn off the OSD (On Screen Display) by pressing the  button, and turn off the menus from connected equipment. For details, refer to the instruction manuals for the connected equipment.
- Avoid displaying static images with bright colours (including white), clocks or logos on any portion of the screen.
- Set the picture settings based on the ambient conditions. The Standard Picture is recommended for home use and when viewing content that often displays the station logos, etc.

The TV has following features to help reduce/ prevent image retention.

#### Panel refresh

Panel refresh will automatically run to adjust the uniformity of the TV screen after it has been in use for long periods of time. Panel refresh can also be performed manually and should only be used if image retention is very noticeable or you see the following message: [Panel refresh did not finish...]

##### Caution:

- The Panel refresh function may affect the panel. As a reference, perform the Panel refresh only once a year, do not perform it more than once a year as it may affect the usable life of the panel.
- Panel refresh takes about one hour to complete.
- A white line may be displayed on the screen during the Panel refresh, this is not a malfunction of the TV.
- Panel refresh will only work when the room temperature is between 10 °C and 40 °C.

#### Pixel shift

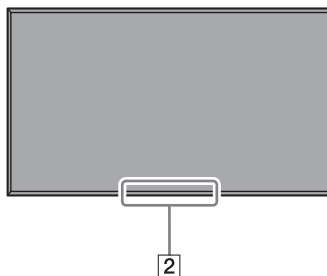
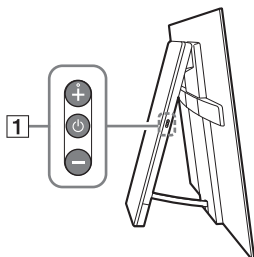
Automatically moves the image on the screen to prevent image retention.

#### Other feature

The screen brightness is automatically reduced when displaying still images, clocks, bright colours or logos etc.


# Parts and Controls

## Controls and Indicators





### 1 (Power) / + / -

**When the TV is off,**

Press  to power on.

**When the TV is on,**

Press and hold  to power off.

Press  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.

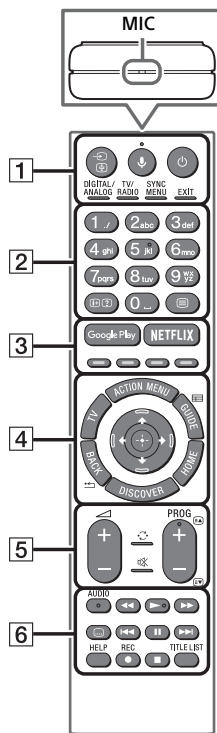
For more information, refer to the Help  
Guide.

\* 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 select/Text hold)**  
In TV mode: Display and select the input source.  
In Text mode: Hold the current page.

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

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

**DIGITAL/ANALOG**  
Switch between digital and analogue mode.

**TV/RADIO**  
Switch between TV or RADIO broadcasts.

**SYNC MENU**  
Display the BRAVIA Sync Menu.

**EXIT**  
Return to the previous screen or exit from the menu. When an Interactive Application service is available, press to exit from the service.

- 2** **Number buttons**

**(Info/Text reveal)**  
Display information.

**(Text)**  
Display text information.

### 3 Google Play

Access the "Google Play" online service.

#### NETFLIX (Only on limited region/ country/TV model)

Access the "NETFLIX" online service.

#### Colour 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 programme 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 +/- (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.

#### PROG +/-//

In TV mode: Select the channel.

In Text mode: Select the next () or previous () page.

### 6 AUDIO

Change the language for the programme currently being viewed.



Operate media contents on TV and connected BRAVIA Sync-compatible device.

#### (Subtitle setting)

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

#### HELP

Display Help menu. Help Guide can be accessed from here.

#### ● REC

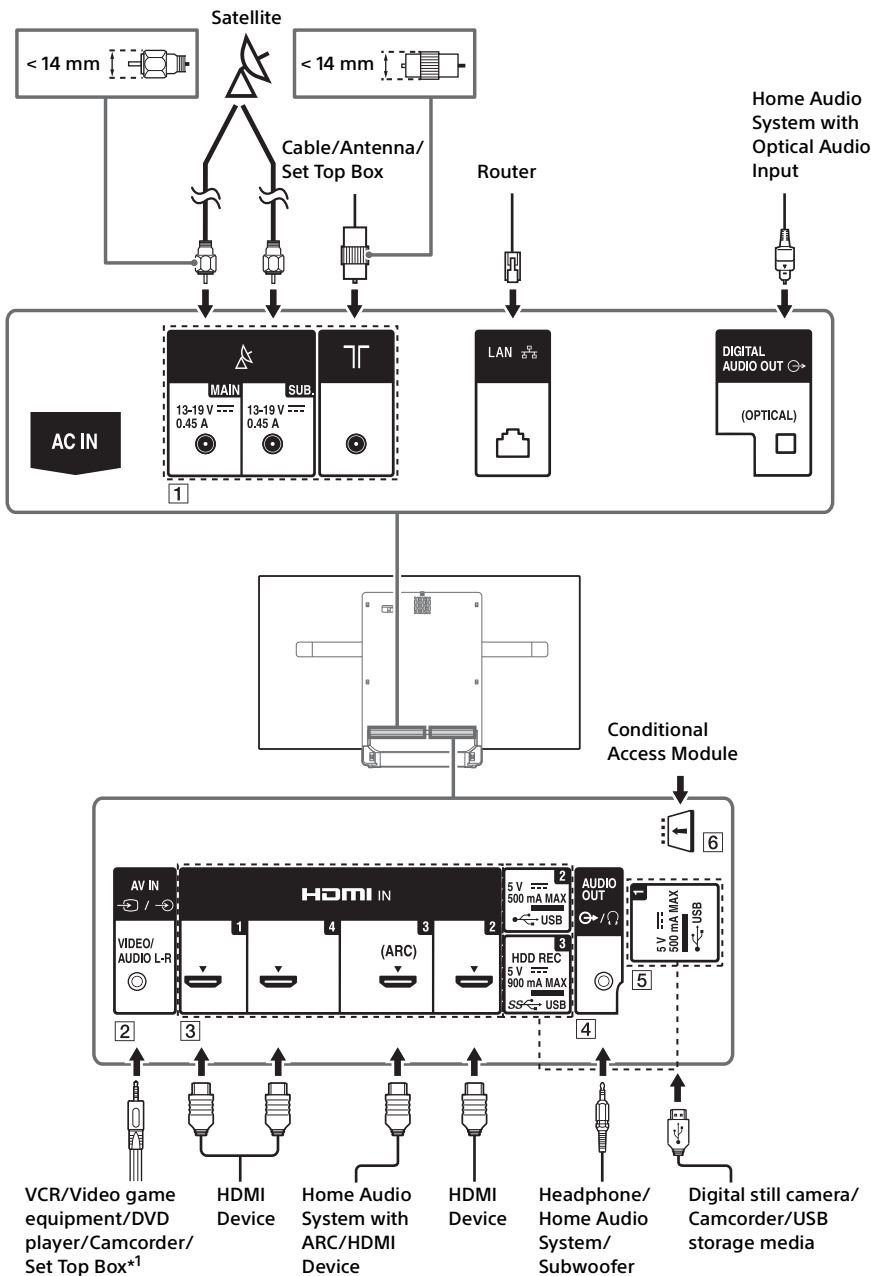
Record the current programme with the USB HDD recording function.

#### TITLE LIST

Display the Title list.

# Connection Diagram

For more information on connections, refer to the Help Guide by pressing **HELP** on the remote control.

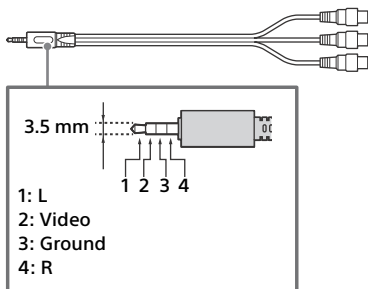


### 1 (Satellite input), (RF input)

- Connections for terrestrial/cable and satellite. Connection steps: SUB. → Antenna → MAIN
- For SUB. jack, connect only when you are using twin tuner mode except for Single Cable Distribution EN50494.

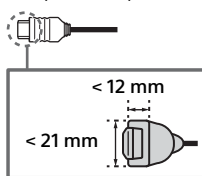
### 2 AV IN

- For a composite connection, use an Analogue Extension Cable (not supplied).



### 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 AUDIO OUT

- Supports 3-pole stereo mini jack only.
- 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.

### 5 USB 1/2, USB 3 (HDD REC)\*2

- 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.

### 6 CAM (Conditional Access Module)

- Provides access to pay TV services. For details, refer to the instruction manual supplied with your CAM.
- Do not insert the smart card directly into the TV CAM slot. It must be fitted into the Conditional Access Module provided by your authorised dealer.
- CAM is not supported in some countries/areas. Check with your authorised dealer.
- A CAM message may appear when you switch to a digital programme after using the Internet video.

\*1 For an external device which has only SCART AV OUT, use a SCART-RCA adapter and Analogue Extension Cable.

\*2 Only on limited region/country/TV model.

#### Note

- Be sure to store the side cover in a safe place for future use.

## 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.

### To Customers:

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

### To Sony Dealers and Contractors:

Provide full attention to safety during the installation, periodic maintenance and examination of this product.

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

Use the Wall-Mount Bracket SU-WL450 (not supplied) to install the TV to the wall.

When installing the Wall-Mount Bracket, also refer to the Operating Instructions and Installation Guide supplied with the Wall-Mount Bracket.

### Note

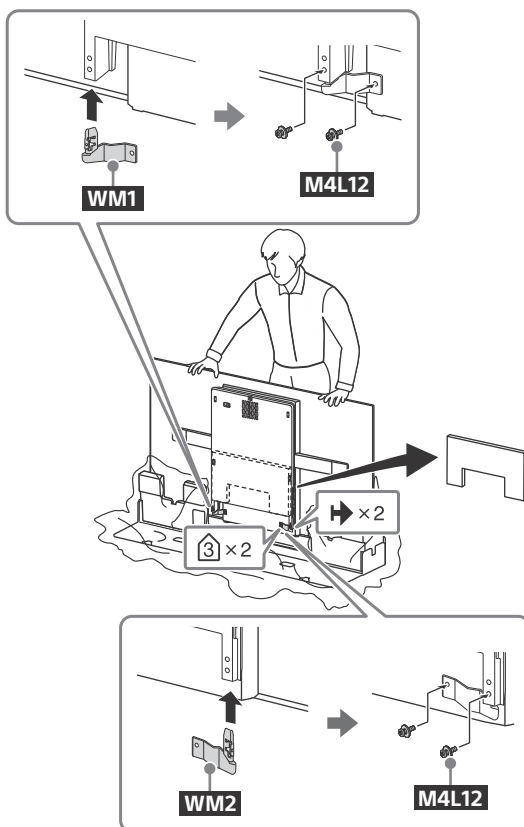
- Be sure to store the removed screws in a safe place, keeping them away from children.
- Be sure to hold the TV while preparing it for wall-mount installation.
- Please remove the corner guards after installing the TV to the wall.



For instructions on Wall-Mount Bracket installation of your TV model, refer to the following website:  
[www.sony.eu/tv/wall-mount-bracket-manual](http://www.sony.eu/tv/wall-mount-bracket-manual)

## Installing the TV to the Wall from Carton

Attach **WM1** and **WM2** (supplied with the TV) to the rear of the TV.

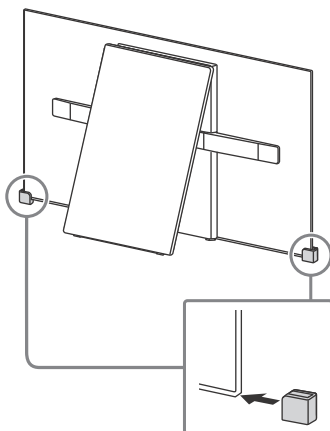


### Note

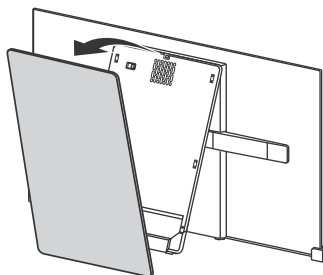
- If using an electric screwdriver, set the torque at approximately 1.5 N·m {15 kgf·cm}.

## Installing the TV to the Wall from Table-Top Stand

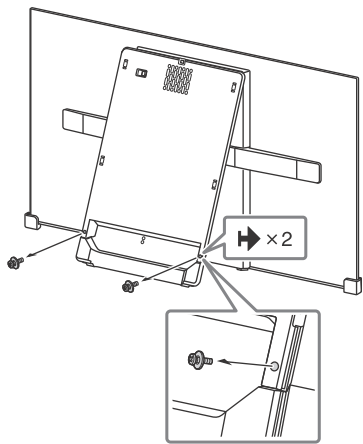
- 1 Insert the corner guards.



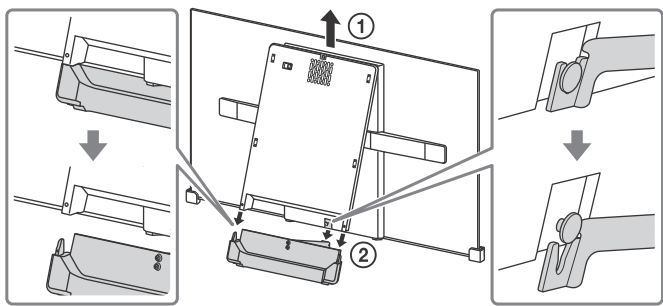
- 2 Remove the center cover.



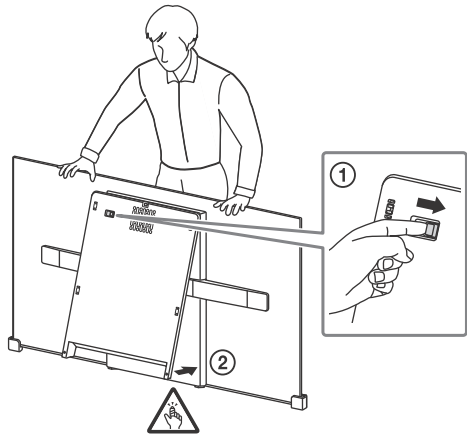
3 Remove the screws.



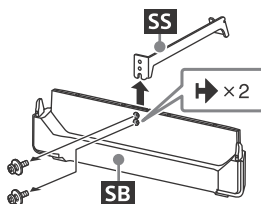
4 Detach the stand base.



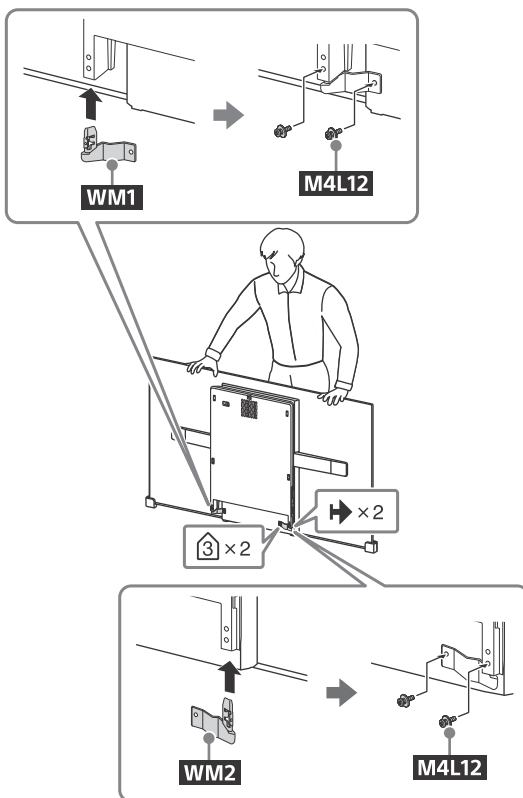
5 Close the center block by releasing the hinge lock.



## 6 Detach **SS** from **SB**.



## 7 Attach **WM1** and **WM2** (supplied with the TV) to the rear of the TV.



### Note

- If using an electric screwdriver, set the torque at approximately 1.5 N·m {15 kgf·cm}.

## Troubleshooting

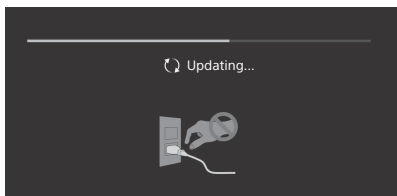
General troubleshooting for issues like: black screen, no sound, frozen picture, TV does not respond, or network is lost, do the following steps.

- 1 Restart your TV by pressing the power button on the remote control until a message appears. The TV will restart. If the TV does not recover, try unplugging the TV from the mains lead for three minutes and then plug it in again.
- 2 Refer to the Help menu by pressing **HELP** on the remote control.
- 3 Connect your TV to the Internet and perform a software update.
- 4 Visit Sony support website (information provided on the back cover).

### When [A new TV system software update is available...] message is displayed.

Sony strongly recommends you to update the TV software by selecting [Update Now]. These software updates improve your TV performance or add new features.

The following screen with [Updating...] will appear and the illumination LED flashes white while software is updating.



Do not unplug the mains lead 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 15 minutes.

### 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.

It takes time to initialize the system. Wait for about one minute, then operate it again.

## Troubles and Solutions

### When the illumination LED is flashing in red.

- Count how many times it flashes (interval time is three seconds).  
Reboot the TV by disconnecting the mains lead for three minutes, then turn on the TV.  
If the problem persists, disconnect the mains lead, and contact your dealer or Sony service centre with the number of times the illumination LED flashes.

### Terrestrial/cable service cannot be received.

- Check the antenna (aerial)/cable connection and booster settings.
- Select terrestrial/cable service by pressing **DIGITAL/ANALOG** on the remote control. If the broadcasting service is not displayed, press **TV** and then press **DIGITAL/ANALOG**.
- Terrestrial signal might be suppressed if there is a strong signal supplied nearby. Set [LNA (CH ---)] to [Off] in digital tuning settings.
- After moving to a new house or trying to receive new services, attempt a service search by selecting [Digital Tuning].

### Satellite service cannot be received.

- Check the satellite cable connection.
- When [No signal. LNB overload detected...] message is displayed, unplug the mains lead. Then, ensure the satellite cable is not damaged and the satellite signal line is not short-circuited in the satellite connector.

### The remote control does not function.

- Replace the batteries.

### The parental lock for broadcast password has been forgotten.

- Enter 9999 for the PIN code and select [Change PIN Code].

### The TV surrounds become warm.

- When the TV is used for an extended period, the TV surrounds become warm.  
You may feel hot when touching there by the hand.

### The screen becomes darker while watching TV.

- If the whole image or part of the image remains still, the screen brightness will be gradually reduced to prevent image retention. This is not a malfunction of the TV.

## You are concerned about image retention.

- If the same image is displayed repeatedly or for long periods of time, image retention may occur. You can manually perform a Panel refresh to reduce image retention.

### Note

- Perform Panel refresh only when image retention is particularly noticeable. As a reference, perform it only once a year. Avoid performing it more than once a year because it may affect the usable life of the panel.
- Images that include clocks, logos and bright colours (including white) easily cause image retention. Avoid displaying these types of images for long periods of time, otherwise image retention may occur.

## A white line appears on the screen.

- Panel refresh automatically runs after the TV has been used for long periods of time to reduce image retention. Panel refresh starts after the TV is turned off and takes about one hour to complete. A white line may be displayed on the screen during the Panel refresh. This is not a malfunction of the TV.

## The message [Panel refresh did not finish...] is displayed.

Panel refresh automatically runs after the TV has been used for long periods of time to reduce image retention. If the TV is turned on, the mains lead is unplugged, or the room temperature falls outside of the range between 10 °C and 40 °C during the Panel refresh, the process will not be completed and this message will appear.

- If Panel refresh started automatically, it will restart when you turn off the TV with the remote control.
- If Panel refresh initiated manually, you must select it again.

# Specifications

## System

### Panel system

OLED (Organic Light Emitting Diode) Panel

### TV system

Depending on your country/area selection/TV model

Analogue: B/G, D/K, I

Digital: DVB-T/DVB-C

DVB-T2\*

Satellite\*: DVB-S/DVB-S2

### Colour system

PAL, SECAM, NTSC3.58 (Video only), NTSC4.43 (Video only)

### Channel coverage

Depending on your country/area selection/TV model

Analogue: UHF/VHF/Cable

Digital: UHF/VHF/Cable

Satellite\*: IF Frequency 950-2,150 MHz

### Sound output

10 W + 10 W + 10 W + 10 W + 10 W

### Wireless technology

Protocol IEEE802.11ac/a/b/g/n

(IEEE802.11ac may not be available depending on countries/regions.)

Bluetooth Version 4.1

Frequency band(s): WLAN 2.4 GHz/5 GHz,

Bluetooth 2.4 GHz

Radio frequency power transmitted: 100 mW MAX

- \* Not all the TV sets have DVB-T2 or DVB-S/S2 technology or satellite antenna terminal.

## Input/Output jacks

### Antenna (aerial)/cable

75 ohm external terminal for VHF/UHF

### Satellite antenna

Female F-Type Connector, 75 ohm.

DiSEqC 1.0, LNB 13 V/18 V & 22 kHz tone, Single

Cable Distribution EN50494.

### AV IN

Video/Audio input (mini jack)

HDMI IN 1, 2, 3, 4 (Support 4K resolution, HDCP 2.2-compatible)

Video:

4096 × 2160p (50, 60 Hz)\*<sup>1</sup>\*<sup>2</sup>, 4096 × 2160p (24 Hz)\*<sup>1</sup>, 3840 × 2160p (50, 60 Hz)\*<sup>2</sup>, 3840 × 2160p (24, 25, 30 Hz), 1080p (30, 50, 60 Hz), 1080/24p, 1080i (50, 60 Hz), 720p (30, 50, 60 Hz), 720/24p, 576p, 576i, 480p, 480i, PC Formats

\*<sup>1</sup> 3840 × 2160p is displayed when 4096 × 2160p is input.

\*<sup>2</sup> 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: 48 kHz, 16 bits, Dolby Digital, Dolby Digital Plus, DTS)

Ⓞ DIGITAL AUDIO OUT (OPTICAL)

Digital optical jack (Two channel linear PCM: 48 kHz, 16 bits, Dolby Digital, DTS)

AUDIO OUT Ⓞ / Ⓜ (Stereo mini jack)

Headphone, Audio output, Subwoofer

•↔1, •↔2, SS↔ 3 (HDD REC)\*<sup>1</sup>

USB device port (SS↔ 3 USB HDD device for REC feature)

USB port 1 and 2 support High Speed USB (USB2.0).

USB port 3 supports Super Speed USB (USB3.0).



CAM (Conditional Access Module) slot



10BASE-T/100BASE-TX connector (Depending on the operating environment of the network, connection speed may differ. 10BASE-T/100BASE-TX communication rate and communication quality are not guaranteed for this TV.)

## Others

Optional accessories

Wall-Mount Bracket: SU-WL450

Условия хранения:

Товары сохраняют в упакованном виде в темных, сухих, чистых, хорошо вентилируемых помещениях, изолированных от мест хранения кислот и щелочей.

Температура хранения\*: от -20 °C до +60 °C.

Относительная влажность хранения\*: < 80 % (без конденсации).

\*Примечание: максимальные значения для обоих параметров не могут быть достигнуты одновременно.

Рабочая температура: от 0 °C до 40 °C. Рабочая относительная влажность: 10 % – 80 % (без конденсации).

Умови зберігання:

Продукцію зберігають в упакованому виді в темних, сухих, чистих, добре вентильованих приміщеннях, ізовованих від місць зберігання кислот і лугів. Температура зберігання\*: від -20 °C до +60 °C. Відносна вологість зберігання\*: < 80 % (без конденсації).

\* Примітка: неможливо отримати максимальні значення для обох параметрів одночасно.

Робоча температура: від 0 °C до 40 °C. Робоча відносна вологість: 10 % - 80 % (без конденсації).

Сақтау шарты:

Өнімдерді қараңғы, құрғақ, таза, жақсы желдетілетін қышқылдар мен сілтілік металдар сақталған орыннан оқшауланған бумада сақтау қажет. Сақтау температурасы\*: -20 °C мен +60 °C аралығы. Сақтау ылғалдылығы\*: < 80% салыст. ылғалдылық (конденсациясыз).

\* Ескерту: Екі параметрдің ең үлкен мәндеріне бір уақытта жету мүмкін емес.

Жұмыс температурасы: 0 °C мен 40 °C аралығы.

Жұмыс ылғалдылығы: 10 % – 80 % салыст.

ылғалдылық (конденсациясыз).

## Power, Product Fiche and others

Power requirements

Rating: Input 220 V - 240 V AC, 50 Hz

Energy Efficiency Class

KD-77A1: B

KD-65A1: A

KD-55A1: B

Screen size (measured diagonally) (Approx.)

KD-77A1: 194.7 cm / 77 inches

KD-65A1: 163.9 cm / 65 inches

KD-55A1: 138.8 cm / 55 inches

Удельная потребляемая мощность в режиме [Стандартный]:

KD-77A1: 16,2 мВт/см<sup>2</sup>

KD-65A1: 13,5 мВт/см<sup>2</sup>

KD-55A1: 16,5 мВт/см<sup>2</sup>

Power consumption

in [Standard] mode

KD-77A1: 262 W

KD-65A1: 154 W

KD-55A1: 135 W

in [Vivid] mode

KD-77A1: 765 W

KD-65A1: 498 W

KD-55A1: 378 W

Average annual energy consumption\*<sup>2</sup>

KD-77A1: 363 kWh

KD-65A1: 214 kWh

KD-55A1: 187 kWh

Standby power consumption\*<sup>3+4</sup>

0.50 W (27 W in software/EPG update mode)

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.) (w × h × d)

with Table-Top Stand

KD-77A1: 172.1 × 99.3 × 39.9 cm

KD-65A1: 145.1 × 83.2 × 33.9 cm

KD-55A1: 122.8 × 71.0 × 33.9 cm

without Table-Top Stand

KD-77A1: 172.1 × 99.7 × 9.9 cm

KD-65A1: 145.1 × 83.4 × 8.6 cm

KD-55A1: 122.8 × 71.1 × 8.6 cm

## Mass (Approx.)

with Table-Top Stand

KD-77A1: 45.3 kg

KD-65A1: 36.2 kg

KD-55A1: 28.8 kg

without Table-Top Stand

KD-77A1: 37.8 kg

KD-65A1: 29.8 kg

KD-55A1: 25.0 kg

\*<sup>1</sup> Only on limited region/country/TV model.

\*<sup>2</sup> Energy consumption per year, based on the power consumption of the television operating 4 hours per day for 365 days. The actual energy consumption will depend on how the television is used.

\*<sup>3</sup> Specified standby power is reached after the TV finishes necessary internal processes.

\*<sup>4</sup> Standby power consumption will increase when your TV is connected to the network.

### Note

- Do not remove the cover from TV CAM (Conditional Access Module) slot other than to insert a smart card fitted in CAM.
- Optional accessories availability depends on countries/region/TV model/stock.
- Design and specifications are subject to change without notice.

## Notes on Digital TV function

- Digital TV (DVB terrestrial, satellite and cable), interactive services and network functions may not be available in all countries or areas. Some functions might not be enabled or might not operate correctly with some providers and network environments. Some TV service providers may charge a fee for their services.
- This TV supports digital broadcasting using MPEG-2, H.264/MPEG-4 AVC and H.265/HEVC codecs, but compatibility with all operator/service signals, which may change over time, cannot be guaranteed.

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**4K**

Actual resolution: 3840 x 2160 pixels.



Справочное руководство  
Довідка  
Көмекші нұсқаулық

[http://rd1.sony.net/help/tv/eaep1/h\\_eu/](http://rd1.sony.net/help/tv/eaep1/h_eu/)



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