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Remote and TV Controls/Indicators

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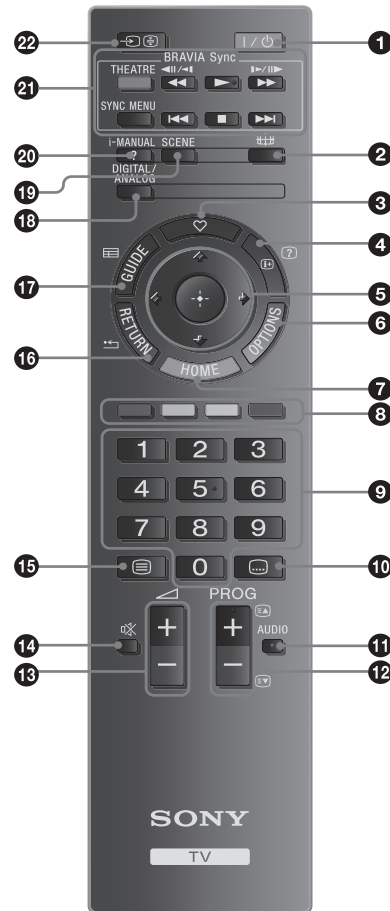
Using MENU Functions





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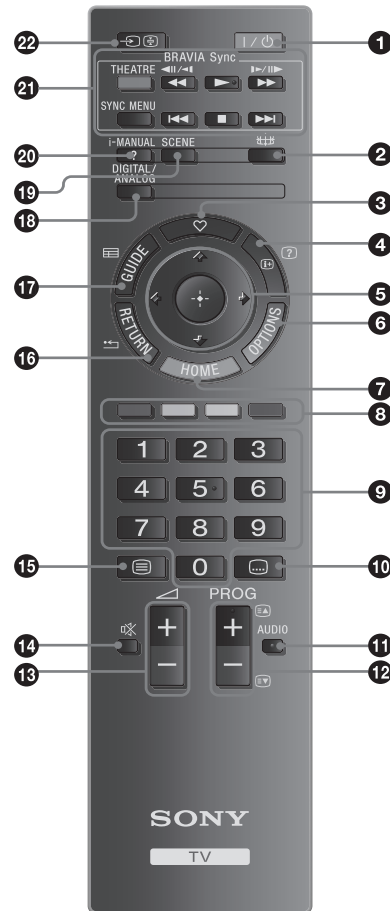
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? Overview of the remote



- 1  – TV standby
Turns the TV on and off from standby mode.

 - Depending on the model you may also have an additional power button on the rear of the Remote Commander.
- 2  – Screen mode (22)
- 3  – Digital Favourite list
Press to display the Digital Favourite list that you have specified (28).

? Overview of the remote



4 – Info/Text reveal

- In digital mode: Displays brief details of the programme currently being watched.
- In analogue mode: Displays information such as current channel number and screen format.
- In Text mode (19): Reveals hidden information (e.g. answers to a quiz).

5

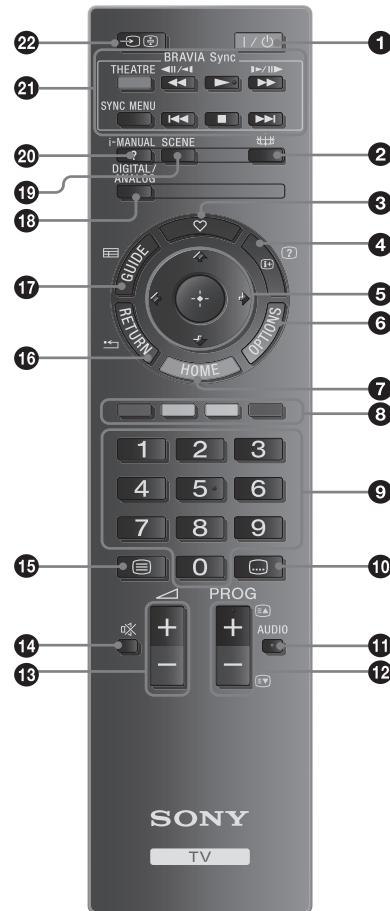
6 OPTIONS (25) (40)

Enables you to access various viewing options and change/make adjustments according to the source and screen format.

7 HOME (48)

8 Coloured buttons (19) (29)

? Overview of the remote



9 Number buttons

- In TV mode: Selects channels. For channel numbers 10 and above, press the second and third digit in quick succession.
- In Text mode: Enters the three digit page number to select the page.

10 – Subtitle setting

- Press to change the subtitle language (74) (in digital mode only).

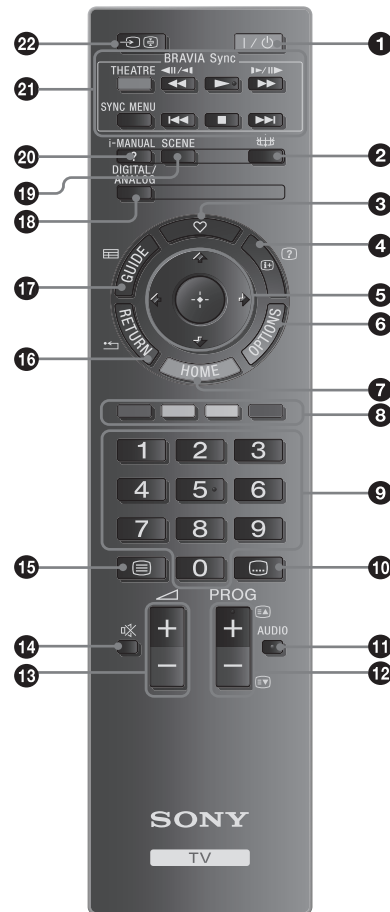
11 AUDIO

- Press to change the dual sound mode (58).

12 PROG +/-

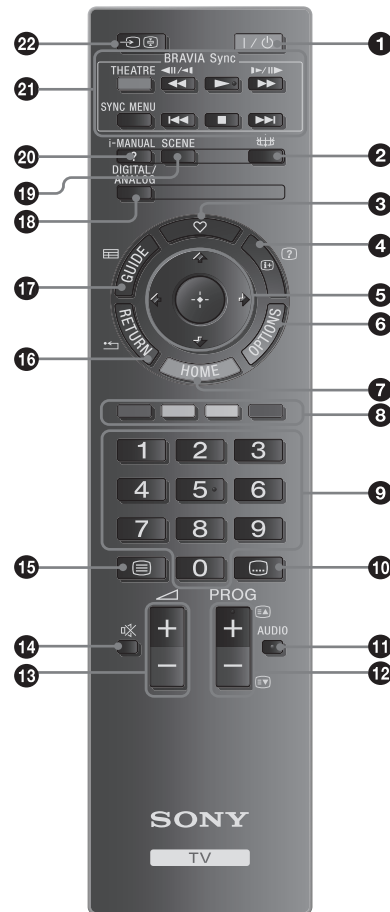
- In TV mode: Selects the next (+) or previous (-) channel.

? Overview of the remote



- In Text mode (19): Selects the next (⏮) or previous (⏭) page.
- 13 ▲ +/- – Volume
- 14 🔇 – Mute the sound
- 15 ☰ – Text (19)
- 16 RETURN / ↶
Returns to the previous screen of any displayed menu.
- 17 GUIDE / ☰ – EPG (Digital Electronic Programme Guide) (26)
- 18 DIGITAL – Digital mode (15)
ANALOG – Analogue mode (15)
- 19 SCENE – Scene Select (20)

? Overview of the remote



20 i-MANUAL

Displays contents of Instruction Manual on the screen.

21 BRAVIA Sync

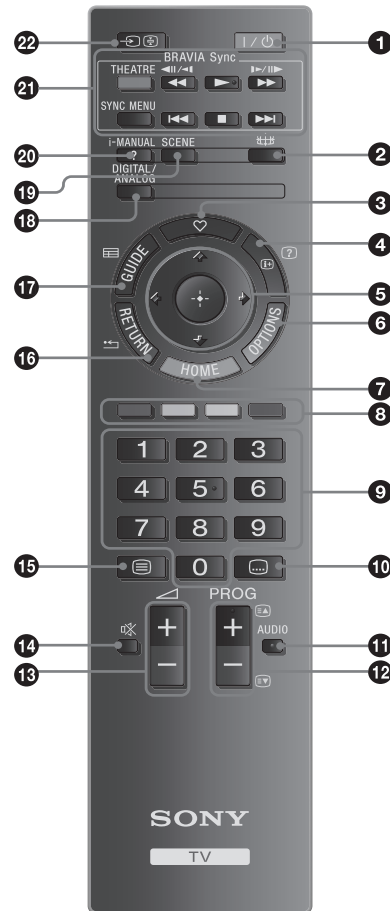


You can operate the BRAVIA Sync-compatible equipment that is connected to the TV.

SYNC MENU:

Displays the menu of connected HDMI equipment. While viewing other input screens or TV programmes, "HDMI Device Selection" is displayed when the button is pressed.

? Overview of the remote



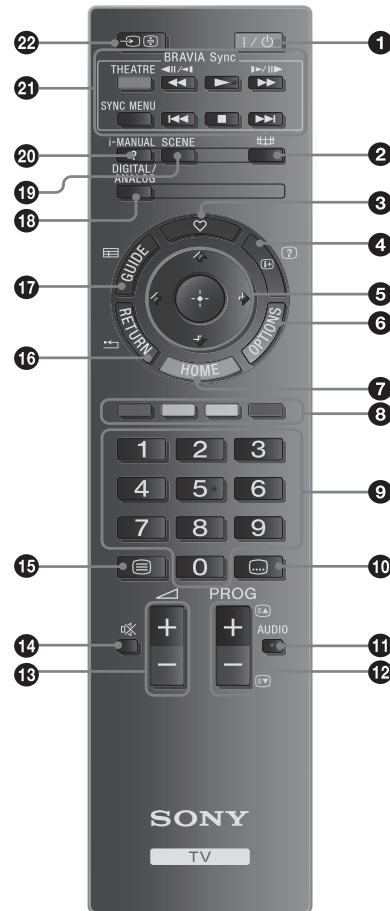
THEATRE:

You can set Theatre Mode to on or off. When Theatre Mode is set to on, the optimum sound quality (if the TV is connected with an audio system using an HDMI cable) and picture quality for film-based contents are automatically set.




- If you turn the TV off, Theatre Mode is also turned off.
- When you change the “Scene Select” setting, Theatre Mode turns off automatically.

? Overview of the remote



- “Control for HDMI” (BRAVIA Sync) is only available with the connected Sony equipment that has the BRAVIA Sync or BRAVIA Theatre Sync logo or is compatible with Control for HDMI.

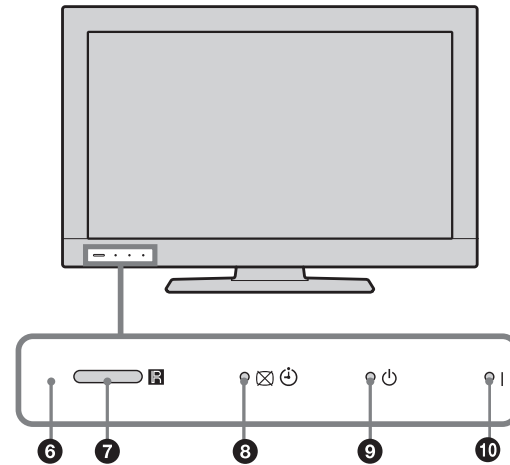
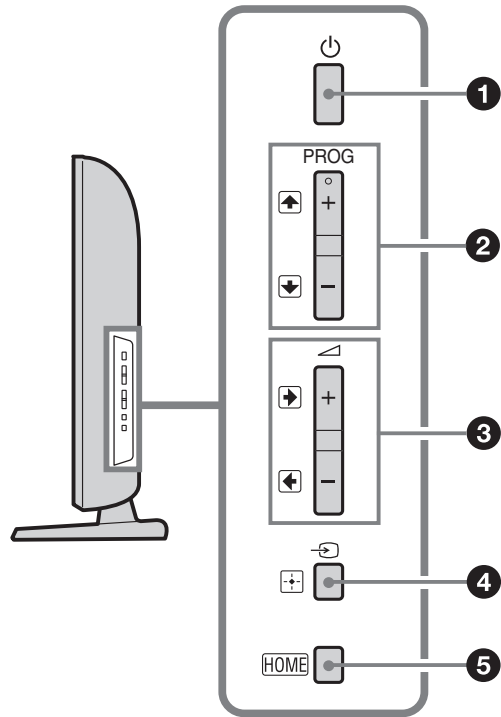
22  – Input select







- In TV mode: Press to display a list of inputs.



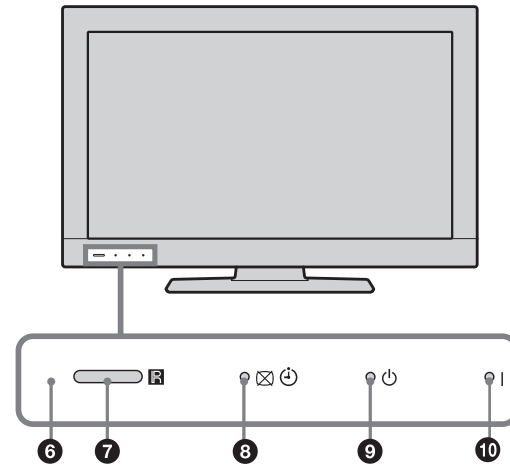
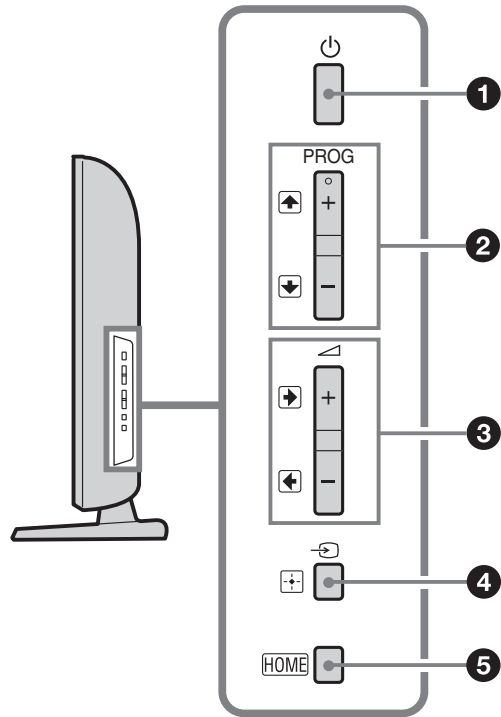
- The number 5, PROG + and AUDIO buttons have tactile dots. Use the tactile dots as references when operating the TV.

? Overview of the TV buttons and indicators



- 1  – Power
Turns the TV on or off.

 - To disconnect the TV completely, pull the plug from the mains.
 - When you turn on the TV, the power indicator lights in green.
- 2 PROG +/-/
 - In TV mode: Selects the next (+) or previous (-) channel.
 - In TV menu: Moves through the options up () or down ()

? Overview of the TV buttons and indicators



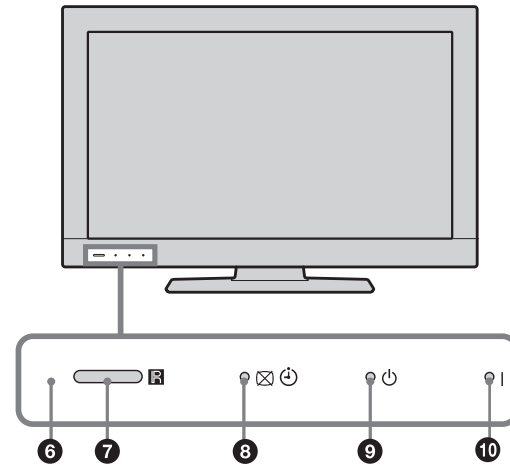
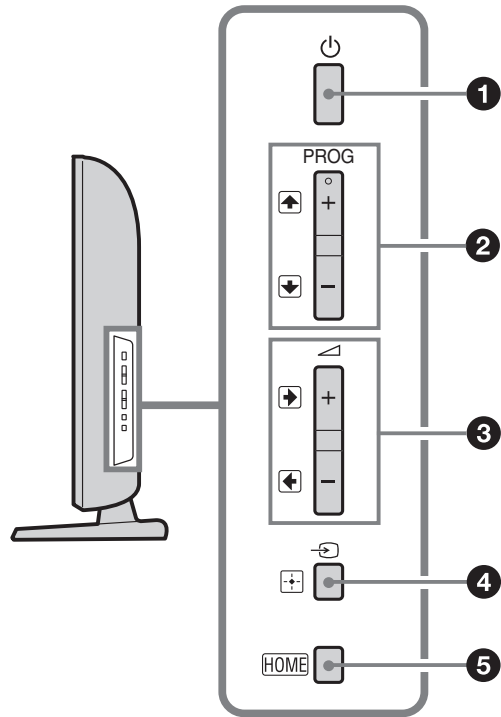
3 +/- / /

- In TV mode: Increases (+) or decreases (-) the volume.
- In TV menu: Moves through the options right () or left ()

4 / – Input select / OK

- In TV mode: Selects the input source from equipment connected to the TV sockets (33).
- In TV menu: Selects the menu or option, and confirms the setting.

? Overview of the TV buttons and indicators



5 **HOME** (48)

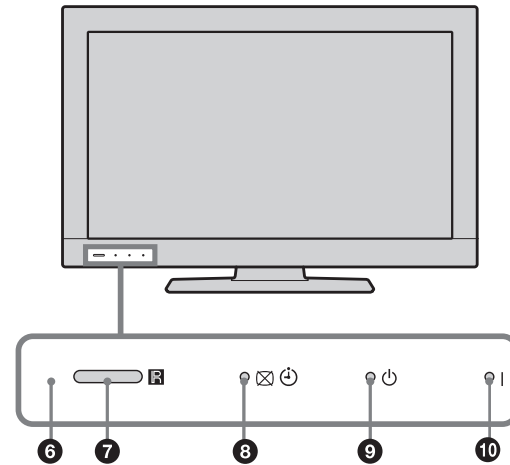
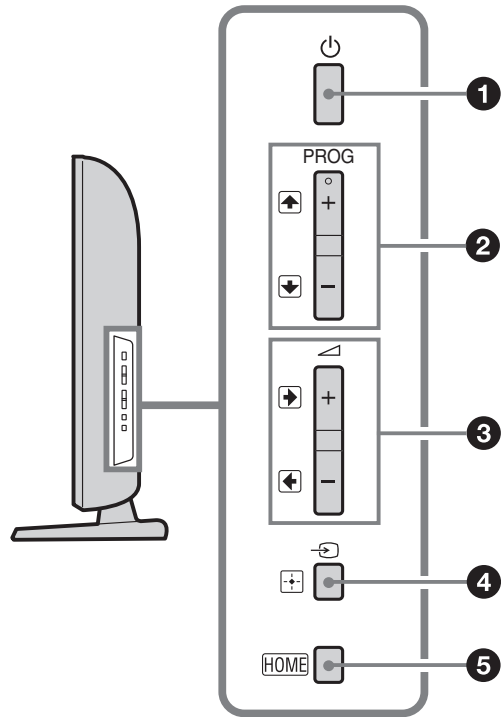
6 Light sensor





Do not put anything over the sensor, doing so may affect its function (62).

7 Remote control sensor

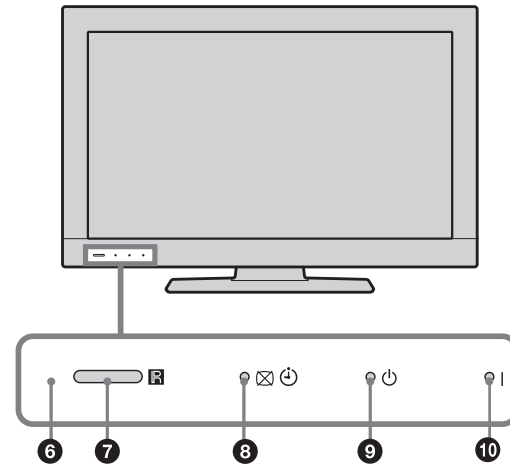
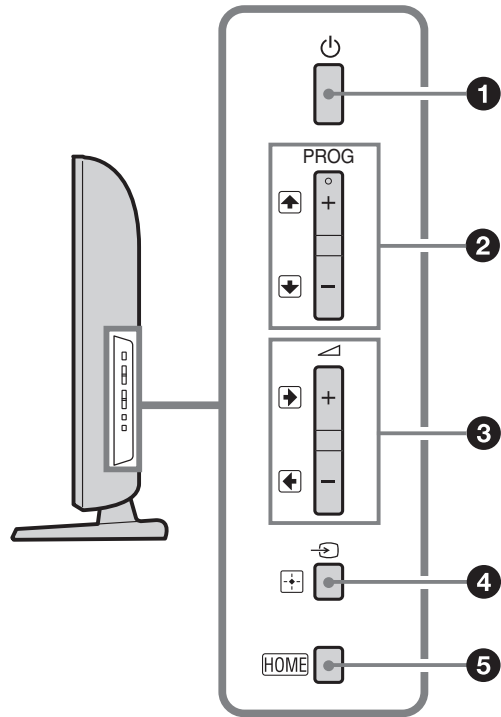
- Receives IR signals from the remote.
- Do not put anything over the sensor, as its function may be affected.

? Overview of the TV buttons and indicators



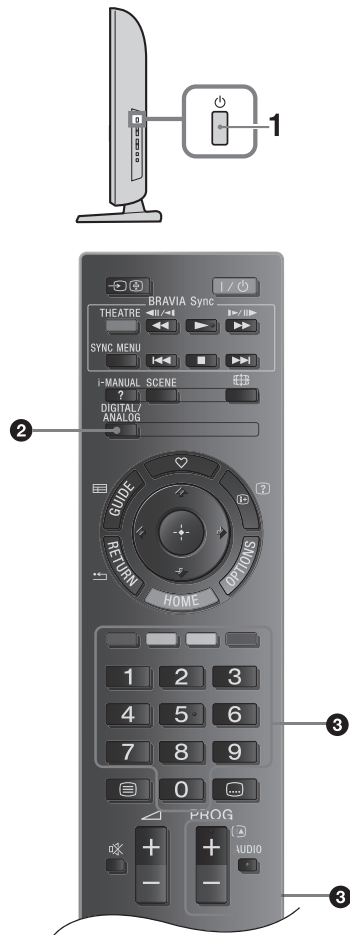
- 8   – Picture Off / Sleep Timer indicator
- Lights up in green when the picture is switched off (61).
 - Lights up in orange when the sleep timer is set (61).
- 9  – Standby indicator
Lights up in red when the TV is in standby mode.
- 10  – Power indicator
Lights up in green when the TV is turned on.




? Overview of the TV buttons and indicators



- Make sure that the TV is completely turned off before unplugging the mains lead. Unplugging the mains lead while the TV is turned on may cause the indicator to remain lit or may cause the TV to malfunction.

? Watching TV



- 1 Press  on the side of the TV to turn on the TV. When the TV is in standby mode (the  (standby) indicator on the TV front panel is red), press  on the remote to turn on the TV.
- 2 Press DIGITAL/ANALOG to switch between digital and analogue modes. The channels available vary depending on the mode.

? Watching TV



3 Press the number buttons or PROG +/- to select a TV channel.


To select channel numbers 10 and above using the number buttons, press the second and third digits in quick succession.


To select a digital channel using the Digital Electronic Programme Guide (EPG) (26).

? Watching TV

In digital mode


An information banner appears briefly. The following icons may be indicated on the banner.

: Interactive service is available (MHEG Digital Text)

: Interactive service (MHEG Digital Text) is currently disabled


: Radio Service

: Scrambled/Subscription service

: Multiple audio languages available

: Subtitles available

: Subtitles available for the hearing impaired


: Recommended minimum age for current programme (from 4 to 18 years)




: Parental Lock

: Digital Programme Lock

? Watching TV

Additional operations


To adjust the volume, press  + (increase)/- (decrease).

To access the Programme index table (in analogue mode only), press . To select an analogue channel, press , then press .

To access the Digital Favourites (in digital mode only), press . For details, see (28).


To access Digital Text


Many broadcasters provide a Digital Text service. Digital Text offers graphically rich contents, compared to Analogue Text.

Select a digital channel which provides Digital Text, then press .

When a broadcaster provides a dedicated Digital Text channel, select this channel to access Digital Text.

To navigate through Digital Text, follow the instructions on the screen.

To exit Digital Text, press  RETURN.



To move around, press .

To select items, press  and the number buttons.

To access shortcuts, press the coloured buttons.

? Watching TV

To access Analogue Text

In analogue mode, press . Each time you press , the display changes cyclically as follows:





Text → Text over the TV picture (mix mode) → No Text (exit the Text service)

To select a page, press the number buttons or /.

To hold a page, press .

To reveal hidden information, press .



- You can also jump directly to a page by selecting the page number displayed on the screen. Press  and / to select the page number, then press .

- When four coloured items appear at the bottom of the Text page, you can access pages quickly and easily (FastText). Press the corresponding coloured button to access the page.

? Watching TV

Scene Select mode

When you select the desired scene option, the optimum sound quality and picture quality for the selected scene are automatically set.

- 1 Press SCENE on the remote control.
- 2 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to select the mode, then press \oplus .

Cinema: Delivers a theatre-like picture and sound.

Sports: Delivers a realistic picture with surround sound.

Photo: Delivers a picture that reproduces the texture and colour of a printed photo.

Game: Delivers a picture that lets you enjoy game-playing to the fullest with the best picture and sound quality.

Graphics: Delivers picture scenes that ease your prolonged monitor viewing experience and reduce fatigue by displaying clearer detailed pictures.

General: Current user settings.

Auto HDMI: The optimum sound quality and picture quality are automatically set according to the input source, though there may not be any effect depending on the connected devices.


? Watching TV



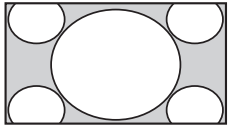
- Except for “General”, if any scene mode is selected, picture mode selection in the picture menu is not possible - release scene selection first.
- When you set Theatre Mode (8) to on, the “Scene Select” setting switches to “Cinema” automatically.

? Watching TV

To change the screen format manually to suit the broadcast

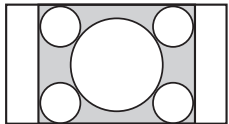
Press  repeatedly to select the desired screen format.

Smart*



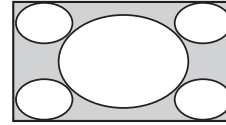
Displays conventional 4:3 broadcasts with an imitation wide screen effect. The 4:3 picture is stretched to fill the screen.

4:3



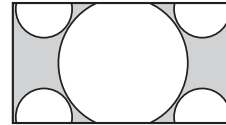
Displays conventional 4:3 broadcasts (e.g. non-wide screen TV) in the correct proportions.

Wide



Stretches a 4:3 picture horizontally, to fill a 16:9 screen.

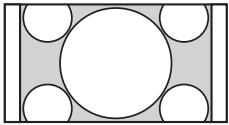
Zoom*



Displays cinemascopic (letter box format) broadcasts in the correct proportions.

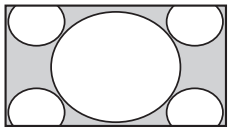
? Watching TV

14:9*



Displays 14:9 broadcasts in the correct proportions. As a result, black border areas are visible on the screen.

Subtitle*



Displays cinemascope (letter box format) broadcasts with subtitles on the screen.

Auto

- "Screen Format" is set to "Auto", automatically changes the screen format to suit the broadcast signal.



* Parts of the top and bottom of the picture may be cut off.



- Depending on the signal, some screen formats may not be selectable.
- Some characters and/or letters at the top and the bottom of the picture may not be visible in "Smart".

? Watching TV



- You can adjust the vertical position of the picture when selecting “Zoom”, “14:9” or “Subtitle”. Press / to move up or down (e.g. to read subtitles).

? Watching TV

Using the OPTIONS menu

Press OPTIONS to display the following options when viewing a TV programme.

(53) Picture

(57) Sound

(59) Speaker

Lock/Unlock (in digital mode only)

Lock/Unlock the selected channel.

See "Parental Lock" for PIN Code (75).

(74) Audio Language (in digital mode only)

(74) Subtitle Setting (in digital mode only)

(61) Sleep Timer

(61) Power Saving

System Information (in digital mode only)

Displays the system information screen.

? Using the Digital Electronic Programme Guide (EPG)

Guide		Sat 10 Feb 23:39			
Today		23:30	00:00	00:30	01:00
001	BBC ONE	Match of t...	The Replacement Killers		
002	BBC TWO	Nev...	Mock the Week	Room 101	Have I Got Old N... The Cul...
003	Channel 3	No event information			
004	Channel 4	No event information			
005	Five	Any Given Sunday			
007	BBC THREE	i	Two Pints of Lag...	Thieves Like Us	Comedy Specials... Comedy: S...
012	UKTV Br'tideas	UK Bright Ideas			
015	abc1	Back at 6am			
016	QVC	Small Office Hom...	Travel Solutions	No event Inform...	
017	UKTV Gold	The Office	Gimme Gimme Gimme	No event information	
018	The HITS	Classic Hits	Cash Call		
021	TMF	Ultimate 20 Love...	Pop the Q		

← Previous → Next +1 day

⊕ Tune ⬆️⬇️⬆️ Select ⓘ Information Ⓞ OPTIONS Options






- 1 In digital mode, press GUIDE.
- 2 Perform the desired operation as shown in the following table or displayed on the screen.

Digital Electronic Programme Guide (EPG)

This function may not be available in some countries/regions.

? Using the Digital Electronic Programme Guide (EPG)

Watch a programme

Press /// to select the programme, then press .

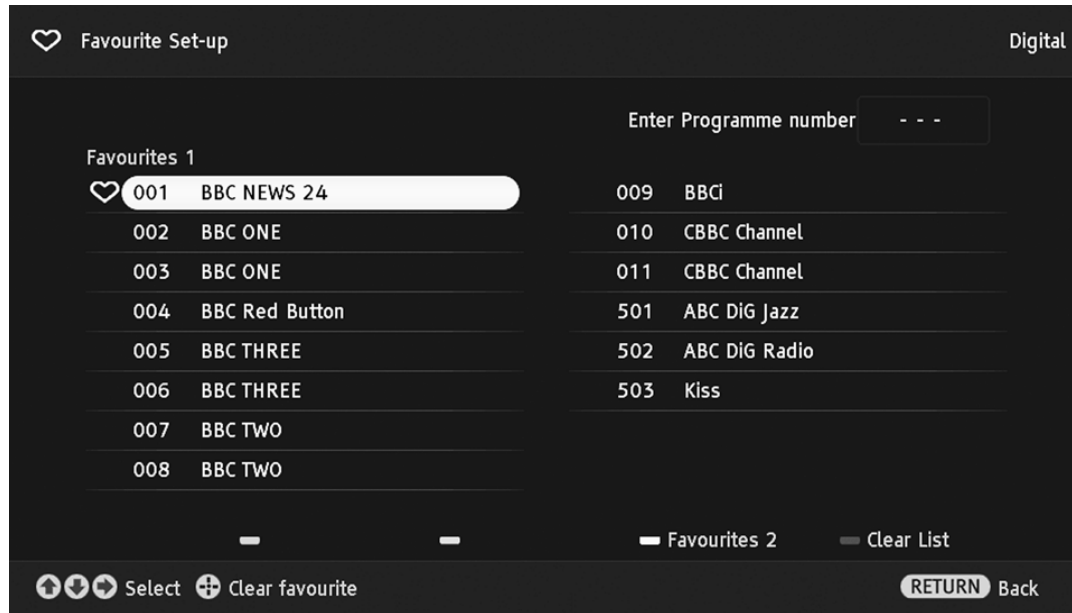
Turn off the EPG

Press GUIDE.



- If an age restriction for programmes has been selected, a message asking for a PIN code will appear on the screen. For details, see “Parental Lock” (75).

? Using the Digital Favourite list



Digital Favourite list






This function may not be available in some countries/regions.

The Favourite feature allows you to specify up to four lists of your favourite programmes.



- 1 In digital mode, press ♥.
- 2 Perform the desired operation as shown in the following table or displayed on the screen.

? Using the Digital Favourite list

Create your Favourite list for the first time

- 1 Press  to select "Yes".
- 2 Press the yellow button to select the Favourite list.
- 3 Press  to select the channel you want to add, then press .
Channels that are stored in the Favourite list are indicated by a  symbol.
- 4 Press  RETURN to finish setting up.

Watch a channel

- 1 Press the yellow button to navigate through your Favourite lists.
- 2 Press  to select the channel, then press .

Turn off the Favourite list

Press  RETURN.

? Using the Digital Favourite list

Add or remove channels in the currently edited Favourite list

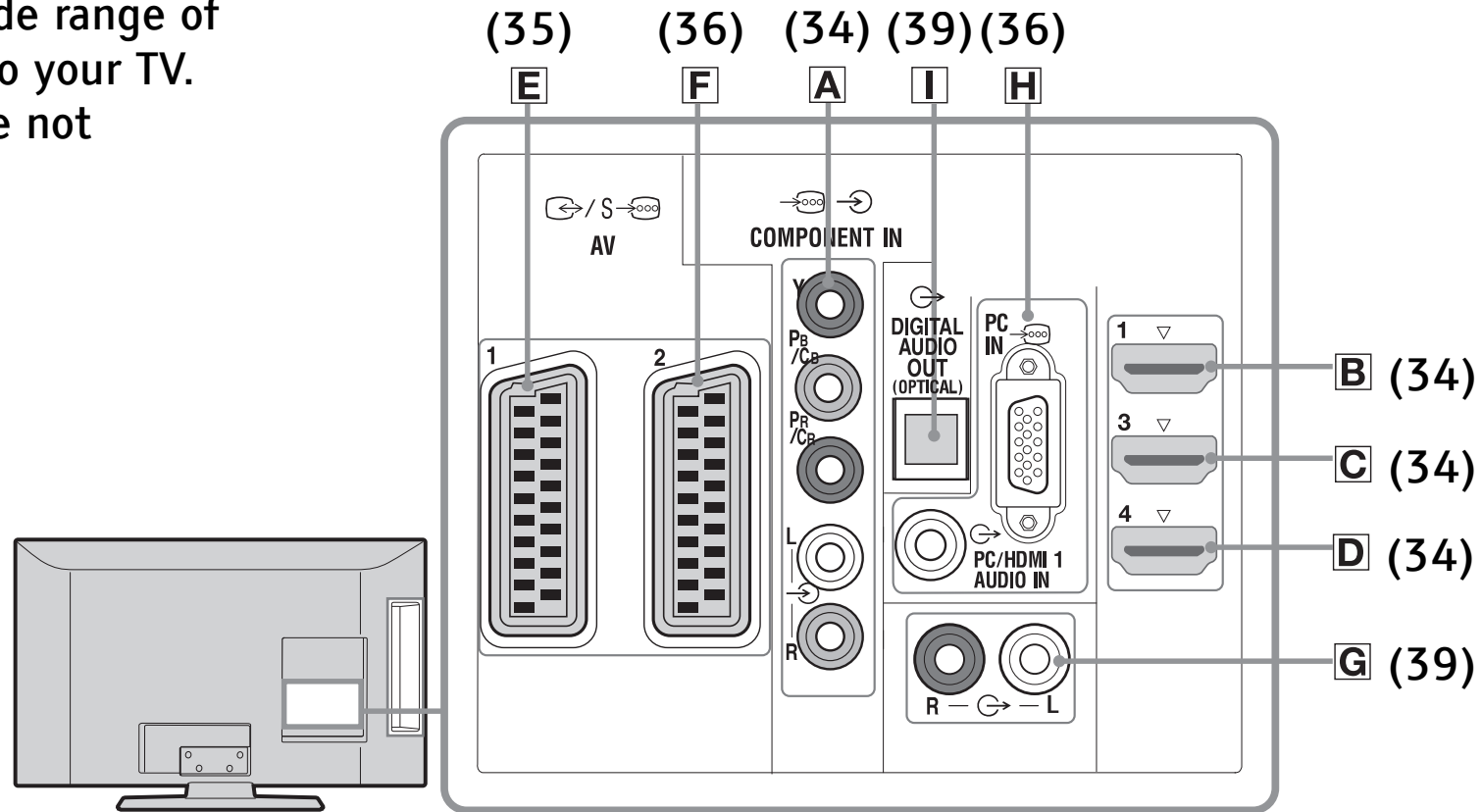
- 1 Press the blue button.
- 2 Press the yellow button to select the Favourite list you want to edit.
- 3 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to select the channel you want to add or remove, then press \oplus .

Remove all channels from the current Favourite list

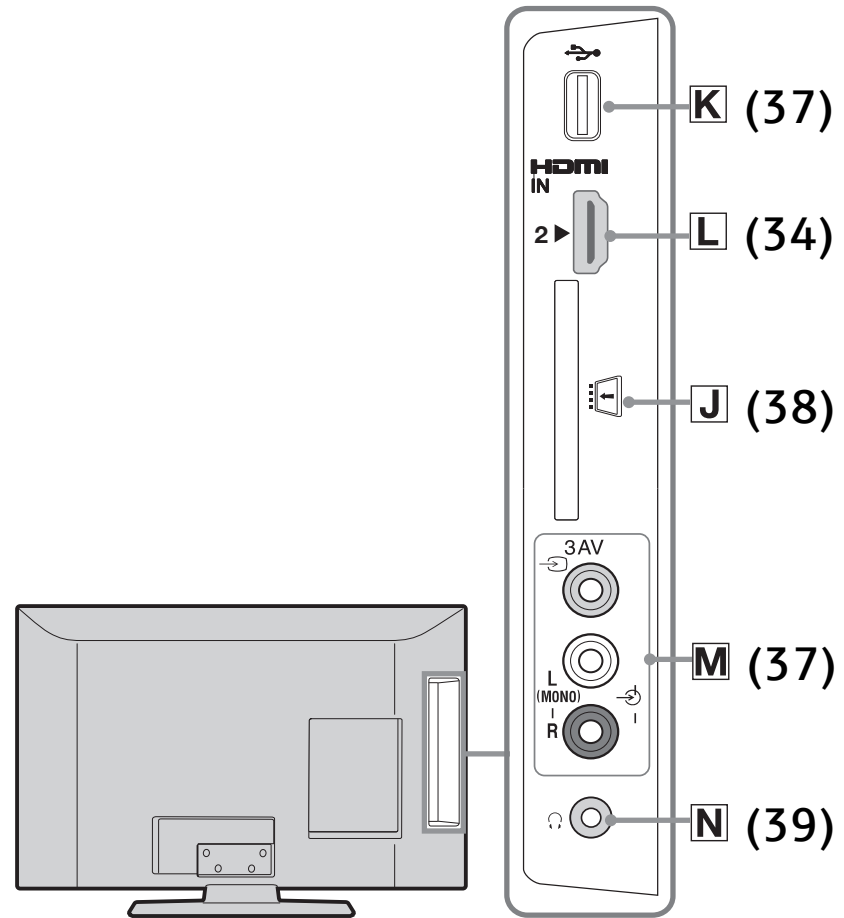
- 1 Press the blue button.
- 2 Press the yellow button to select the Favourite list you want to edit.
- 3 Press the blue button.
- 4 Press \leftarrow/\rightarrow to select "Yes", then press \oplus to confirm.

? Connecting optional equipment

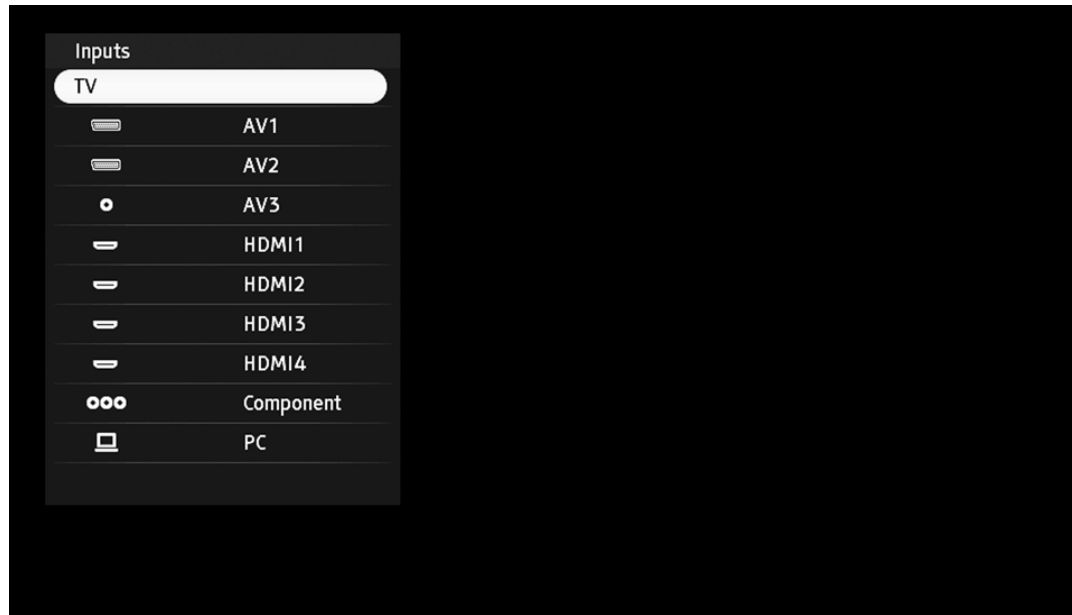
You can connect a wide range of optional equipment to your TV. Connecting cables are not supplied.



? Connecting optional equipment



? Viewing pictures from connected equipment







Turn on the connected equipment, then perform the following operation.

For an auto-tuned VCR

In analogue mode, press PROG +/-, or the number buttons, to select the video channel.

For other connected equipment

Press  to display the connected equipment list. Press  to select the desired input source, then press . (The highlighted item is selected if two seconds pass without any operation after pressing .)

For a USB device (41)

? Viewing pictures from connected equipment

Symbol on the screen:

○○○ Component

Description:

To see the equipment connected to **A** (31).

- DVD player with component output

Symbol on the screen:

≡ HDMI1, ≡ HDMI2, ≡ HDMI3 or ≡ HDMI4

Description:

HDMI IN 1, HDMI IN 2, HDMI IN 3 or HDMI IN 4.

To see the equipment connected to **B** (31), **C** (31), **D** (31) or **L** (32).

- DVD player
- PC (HDMI output)
- Blu-ray disc player
- Digital video camera

Digital video and audio signals are input from the connected equipment.

? Viewing pictures from connected equipment

If the equipment has a DVI socket, connect the DVI socket to the HDMI IN 1 socket through a DVI-HDMI adaptor interface (not supplied), and connect the equipment's audio out sockets to the audio in sockets in the HDMI IN 1 sockets.

Connect to the HDMI IN 2 socket, to view photographs or screen images from a PC or digital video camera.

Symbol on the screen:

 AV1

Description:

To see the equipment connected to  (31).

- Video game equipment
- DVD player
- Decoder

? Viewing pictures from connected equipment

Symbol on the screen:

 AV2

Description:

To see the equipment connected to **F** (31).

- DVD recorder
- VCR
- Decoder

Symbol on the screen:

 PC

Description:

To see the equipment connected to **H** (31).



- It is recommended to use a PC cable with ferrites like the "Connector, D-sub 15" (ref. 1-793-504-11, available in Sony Service Centre), or equivalent.

? Viewing pictures from connected equipment

Symbol on the screen:

ψ USB

Description:

To see the equipment connected to  (32).

- Digital video camera
- Digital camera
- USB storage

You can enjoy photo/music/video files stored in a Sony digital still camera or camcorder (41).


Symbol on the screen:

○ AV3

Description:

To see the equipment connected to  (32).

- Video game equipment
- DVC camcorder

When connecting mono equipment, connect to the  AV3 L socket.



- Be sure to use only an authorised HDMI cable bearing the HDMI logo. We recommend that you use a Sony HDMI cable.

? Viewing pictures from connected equipment

- When HDMI control compatible equipment is connected, communication with the connected equipment is supported. Refer to (45) to set up this communication.

To connect:

Conditional Access Module (CAM)  (32)

Do this:

To use Pay Per View services.

For details, refer to the instruction manual supplied with your CAM. Turn off the TV when inserting or removing your CAM.



- CAM is not supported in some countries/regions. Check with your authorised dealer.

? Viewing pictures from connected equipment

To connect:

Hi-Fi audio equipment  (31)

Do this:

Connect to the audio output sockets  to listen to the sound from the TV on Hi-Fi audio equipment.

Audio level of the external speakers can be modified by pressing the volume buttons on the remote control.

To connect:

DIGITAL AUDIO OUT (OPTICAL)  (31)

Do this:

Use an optical audio cable.

To connect:

Headphones  (32)

Do this:

Connect to the  socket to listen to sound from the TV on headphones.

? Viewing pictures from connected equipment

Additional operation

To:

Return to normal TV mode

Do this:

Press DIGITAL/ANALOG.

(59) Speaker

(64) Horizontal Shift (in PC input mode only)

(64) Vertical Shift (in PC input mode only)

(61) Sleep Timer (except PC input mode)

(61) Power Saving

Using the OPTIONS menu

Press OPTIONS to display the following options when viewing pictures from connected equipment.

(53) Picture

(57) Sound

? Playing Back Photo/Music/Video via USB


You can enjoy photo/music/video files stored in a Sony digital still camera or camcorder through a USB cable or USB storage device on your TV.

- 1 Connect a supported USB device to the TV.
- 2 Press HOME.
- 3 Press \leftarrow/\rightarrow to select "Photo", "Music", or "Video".
- 4 Press \uparrow/\downarrow to select a USB device, then press \oplus .
The file or folder list appears.
- 5 Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to select a file or folder, then press \oplus .

When you select a folder, select a file, then press \oplus .

Playback starts.



- You can register the background music to be played during a slideshow using  Photo by pressing OPTIONS, then select "Slideshow Music".
- Picture quality may appear coarse when using "Photo" because images may be enlarged depending on the file. Also, images may not fill the entire screen depending on the image size and aspect ratio.
- Some photo files may take some time to be displayed when using "Photo".
- The file name and folder name support the UTF-8 character set.

? Playing Back Photo/Music/Video via USB

- While the TV is accessing the data on the USB device, observe the following:
 - Do not turn off the TV or connected USB device.
 - Do not disconnect the USB cable.
 - Do not remove the USB device.

The data on the USB device may be damaged.

- Sony will not be held liable for any damage to, or loss of, data on the recording media due to a malfunction of any connected devices or the TV.
- USB playback is supported for the following photo file formats:
 - JPEG (JPEG format files with the extension “.jpg” and conforming to DCF 2.0 or Exif 2.21)

- When you connect a Sony digital still camera, set the camera’s USB connection mode to Auto or “Mass Storage”. For more information about USB connection mode, refer to the instructions supplied with your digital camera.
- USB playback is supported for the following music file formats:
 - MP3 (files with the extension “.mp3” that have not been copyrighted).
- USB playback is supported for the following video file format:
 - MPEG1 (files with the extension “.mpg”)
 - MP4 (files with the extension “.mp4”)
 - DivX (files with the extension “.avi”)

? Playing Back Photo/Music/Video via USB

- USB Photo Viewer supports FAT16 and FAT32 file systems.
- BRAVIA TV supports DivX ®.
- Up to 300 files per folder are supported.
- Depending on the exact file specifications, some files, including those modified on a PC, cannot be played even if the file format is supported.
- Check the website below for updated information about compatible USB devices.

<http://support.sony-europe.com/TV/compatibility/>




To display a photograph

– Picture Frame



You can display a photograph on the screen for a selected period of time. After that period, the TV automatically switches itself into standby mode.

- 1 Select a photograph.
You can select a photograph from the connected USB device.
- 2 Press **OPTIONS** on the selected photograph and then select "Picture Frame Image".
- 3 Press **RETURN** repeatedly to return to the Home Menu.


? Playing Back Photo/Music/Video via USB

- 4 Press / to select "Photo", then select "Picture Frame" and press .

The TV is switched to Picture Frame mode, and the selected photograph is displayed on the screen.

To set the duration of displaying a photograph Press **OPTIONS**, then select "Duration" and press . Then, select the duration, and press . The counter appears on the screen.

Slideshow with music

You can select the background music to be played during a slideshow. Press **OPTIONS**, then select "Add to list" and press .

Use "Remove from list" to remove music files from the list and "SlideShow Music" to browse or change the order of music files.

To return to the XMB™

Press  RETURN.



- If the photograph is selected from a USB device, it must remain connected to the TV.
- If "Sleep Timer" is activated, the TV automatically will switch into standby mode.



? Using BRAVIA Sync with Control for HDMI

The Control for HDMI function enables the TV to communicate with the connected equipment that is compatible with the function, using HDMI CEC (Consumer Electronics Control).

For example, by connecting Sony equipment that is compatible with Control for HDMI (with HDMI cables), you can control them together.

Be sure to connect the equipment correctly, and make the necessary settings.







Control for HDMI

- Automatically turns the connected equipment off when you switch the TV to standby mode using the remote.
- Automatically turns the TV on and switches the input to the connected equipment when the equipment starts to play.
- If you turn on a connected audio system while the TV is on, the sound output switches from the TV speaker to the audio system.
- Adjusts the volume ( +/-) and mutes the sound () of a connected audio system.
- You can operate the connected Sony equipment that has the BRAVIA Sync logo by the TV remote by pressing:

? Using BRAVIA Sync with Control for HDMI

-  to operate the connected equipment directly.

- SYNC MENU to display the menu of the connected HDMI equipment on the screen.

After displaying the menu, you can operate the menu screen by using ///, , colour buttons, and  RETURN.

- Select "Device Control", then select the desired option to operate the equipment.

- Refer to the instruction manual of the equipment for available control.

- Select "TV Control" to open XMB™ or TV options menu.

- If "Control for HDMI" of the TV is set to "On", "Control for HDMI" of the connected equipment is also automatically switched to "On".

? Using BRAVIA Sync with Control for HDMI

To connect the equipment that is compatible with Control for HDMI

Connect the compatible equipment and the TV with an HDMI cable. When connecting an audio system, be sure to also connect the DIGITAL AUDIO OUT (OPTICAL) jack of the TV and the audio system using an optical audio cable (31).

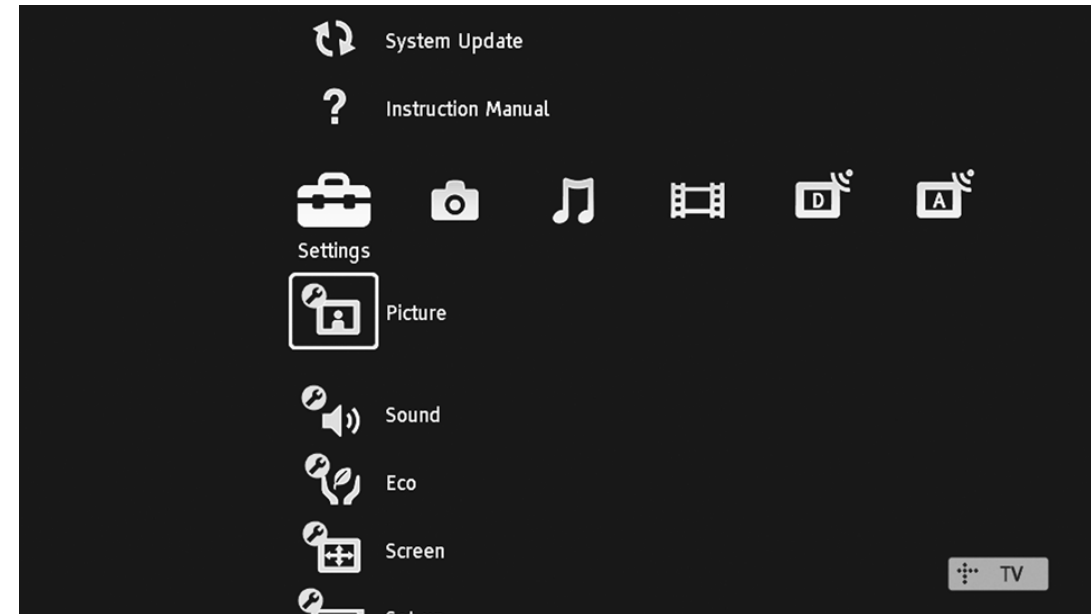
To make the Control for HDMI settings

The Control for HDMI settings must be set on both the TV side and connected equipment side. See "HDMI Set-up" (68) for the TV side settings. For settings on the connected equipment, refer to the operating instructions for that equipment.

? Navigating through TV Home Menu on XMB™

The XMB™ (XrossMediaBar) is a menu of BRAVIA features and input sources displayed on the TV screen. The XMB™ is an easy way to select programming and adjust settings on your BRAVIA TV.

1 Press HOME to display the XMB™.



? Navigating through TV Home Menu on XMB™

2 Press / to select the category.



Settings

You can make advanced settings and adjustments.



Photo

You can enjoy photo files via USB devices (41).



Music

You can enjoy music files via USB devices (41).



Video

You can enjoy video files via USB devices (41).



Digital

You can select a digital channel, Digital Favourite list (28) and the Digital Electronic Programme Guide (EPG) (26).



Analogue

You can select an analogue channel.






External Inputs

You can select equipment connected to the TV.

To assign a label to an external input, see "AV Preset" (67).

? Navigating through TV Home Menu on XMB™

- 3 Press  to select the item, then press .
- 4 Follow the instructions on the screen.
- 5 Press  RETURN to exit.



- The options you can adjust vary depending on the situation.
- Unavailable options are greyed out or not displayed.

? System Update

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

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

? Instruction Manual

Displays contents of Instruction Manual on the screen.

Use coloured buttons to move through the screens.

Press /// to select , then press  to go to related item or access real application.

? Picture

Picture Mode

Selects the picture mode.

- Vivid: For enhanced picture contrast and sharpness.
- Standard: For standard picture. Recommended for home entertainment.



- "Picture Mode" is set depending on "Scene Select" settings.
- "Vivid" and "Standard" are available when "General" is selected in "Scene Select" mode.

Backlight

Adjusts the brightness of the backlight.



- Reducing the brightness of the screen, the power consumption will be reduced.

Contrast

Increases or decreases picture contrast.

Brightness

Brightens or darkens the picture.

Colour

Increases or decreases colour intensity.

? Picture

Hue

Increases or decreases the green tones and red tones.



- "Hue" can only be adjusted for an NTSC colour signal (e.g., U.S.A. video tapes).

Sharpness

Sharpens or softens the picture.

Colour Temperature

Adjusts the whiteness of the picture.

- Cool: Gives the white colours a blue tint.
- Neutral: Gives the white colours a neutral tint.
- Warm: Gives the white colours a red tint.



- "Warm" can not be selected when you set "Picture Mode" to "Vivid".

? Picture

Noise Reduction

Reduces the noise picture (snowy picture) in a weak broadcast signal.

- High/Medium/Low: Modifies the effect of the noise reduction.
- Off: Turns off the "Noise Reduction" feature.

MPEG Noise Reduction

Reduces the picture noise in MPEG-compressed video.

Advanced Settings

Customizes the Picture function in more detail.

- Adv. Contrast Enhancer: Automatically adjusts "Backlight" and "Contrast" to the most suitable settings judging from the brightness of the screen. This setting is especially effective for dark images scenes, and will increase the contrast distinction of the darker picture scenes.
- Auto Light Limiter: Reduces glare such as in scenes where the entire screen is white.
- Live Colour: Makes colours more vivid.

? Picture

Reset

Resets all "Picture" settings except "Picture Mode" to the factory settings.



- "Noise Reduction" and "MPEG Noise Reduction" are not available when "Picture Mode" is set to "Photo".
- "Advanced Settings" is not available when "Picture Mode" is set to "Vivid" or for USB (Photo/Music) input.

? Sound

Sound Effect

Selects the sound mode.

- **Dynamic:** Intensifies clarity and sound presence for better intelligibility and musical realism.
- **Standard:** Enhances clarity, detail, and sound presence.
- **Clear Voice:** Makes voice sound clearer.

Surround

Selects the surround mode.

- **Surround:** For surround sound (for stereo programmes only).
- **Simulated Stereo:** Adds a surround-like effect to mono programs.
- **Off:** For normal stereo or mono reception.

Treble

Adjusts higher-pitched sounds.

Bass

Adjusts lower-pitched sounds.

Balance

Emphasizes left or right speaker balance.

Reset

Resets all the "Sound" settings to the factory settings.

? Sound

Dual Sound

Selects the sound from the speaker for a stereo or bilingual broadcast.

- Stereo, Mono: For a stereo broadcast.
- A/B/Mono: For a bilingual broadcast, select "A" for sound channel 1, "B" for sound channel 2, or "Mono" for a mono channel, if available.



- If you select other equipment connected to the TV, set "Dual Sound" to "Stereo", "A" or "B".

Auto Volume

Keeps a constant volume level even when volume level gaps occur (e.g., adverts tend to be louder than programmes).

Volume Offset

Sets an independent volume level to each equipment connected to the TV.

? Sound

Speaker

Turns on/off the TV's internal speakers.

- **TV Speaker:** The TV speakers are turned on in order to listen to the TV's sound through the TV speakers.
- **Audio System:** The TV speakers are turned off in order to listen to the TV's sound only through your external audio equipment connected to the audio output sockets.

PC Audio Input

Selects the sound from the connected equipment HDMI 1 (34) (DVI-HDMI) or PC (36).

Advanced Settings

- **Dynamic Range:** Compensates for differences in the audio level between different channels (only for Dolby Digital audio).



- The effect may not function or may vary depending on the programme regardless of the "Dynamic Range" setting.
- **Optical Out:** Sets the audio signal that is output from the DIGITAL AUDIO OUT (OPTICAL) jack of the TV. Set to "Auto", when connecting equipment compatible with Dolby Digital.

? Sound

Set to "PCM", when connecting equipment not compatible with Dolby Digital.

- Downmix Mode: Set the downmix method of multi-channel to two-channel sound.
 - Surround: Select to get best surround performance, or while using external products with Pro Logic.
 - Stereo: Select to get a stereo output.



- "Sound Effect", "Surround", "Treble", "Bass", "Balance", "Reset" and "Auto Volume" are not available when "Speaker" is set to "Audio System".

? Eco

Power Saving

Selects the power saving mode to reduce the power consumption of the TV.

- Standard: Default settings.
- Reduce: Reduces the power consumption of the TV.
- Picture Off: Switches off the picture. You can listen to the sound with the picture off.

Sleep Timer

Sets a period of time after which the TV automatically switches itself into standby mode.

When the "Sleep Timer" is activated, the ⌚ (Sleep Timer) indicator on the TV front panel lights up in orange.



- When you turn off the TV and turn it on again, "Sleep Timer" is reset to "Off".
- A notification message appears on the screen one minute before the TV switches to standby mode.

Idle TV Standby

Selects the time ("1h", "2h" or "4h") to set the TV into standby mode automatically, if you do not operate the TV for the specified period of time.

PC Power Management

When this is set to "On," turns to standby mode if no PC signal is received. Only available in PC input.

? Eco

Light Sensor

Automatically optimises the picture settings according to the ambient light in the room.



- Do not put anything over the sensor, doing so may affect its function. Check the position of the sensor (12).

Reset

Resets all the “Eco” settings to the factory settings.



- Energy efficiency reduces power consumption and thus saves money by reducing electricity bills.

? Screen

Screen Format

Changes the screen format. For details about the screen format see (22).

Screen Format (only in PC mode)

- Normal: Displays the picture in its original size.
- Full 1: Enlarges the picture to fill the vertical display area, while maintaining its original proportion.
- Full 2: Enlarges the picture to fill the display area.

Screen Format (only in USB (Video) mode)

- Normal: Displays the picture in its original size.
- Zoom: Enlarges the picture.





4:3 Default

Sets the default screen format for 4:3 broadcasts.

RGB Centre

Adjusts the horizontal picture position so that the picture is in the middle of the screen.



- This option is only available if an RGB source has been connected to the Scarts connectors  /S  AV1 or  /S  AV2 on the rear of the TV.

? Screen

PC Adjustment

Customizes the TV screen as a PC monitor.



- This option is only available if a PC signal is received.
- Phase: Adjusts the screen when a part of a displayed text or image is not clear.
- Pitch: Enlarges or shrinks the screen size horizontally.
- Horizontal Shift: Moves the screen to the left or to the right.
- Vertical Shift: Moves the screen up or down.
- Reset: Resets to the factory settings.

Display Area

Adjusts the picture display area.

- Full Pixel (except for KDL-32BX3xx, 32EX3xx, 26EX3xx, 22EX3xx): Displays pictures in their original size when parts of the picture are cut off.
- Normal: Displays pictures in their recommended size.
- +1: Displays pictures in their original size.



- These options may change depending on the input displayed.

? Screen

Vertical Shift

Adjusts the vertical position of the picture when "Screen Format" is set to "Zoom", "14:9" or "Subtitle".

Vertical Size

Adjusts the vertical size of the picture when "Screen Format" is set to "Smart".

? Set-up

Auto Start-up

Starts the initial set-up to select the language, country/region and location, and tune in all available digital and analogue channels. Usually, you do not need to do this operation because the language and country/region will have been selected and channels already tuned when the TV was first installed. However, this option allows you to repeat the process (e.g., to retune the TV after moving house).

Language

Selects the language in which the menus are displayed.

? Set-up

AV Preset

Assigns a name to any equipment connected to the side and rear sockets. The name will be displayed briefly on the screen when the equipment is selected.

1 Press \uparrow/\downarrow to select the desired input source, then press \oplus .

2 Press \uparrow/\downarrow to select the desired option below, then press \oplus .

- AV1 (or AV2/AV3/HDMI1/HDMI2/HDMI3/HDMI4/Component/PC), VIDEO, DVD, CABLE, GAME, CAM, SAT: Uses one of the preset labels to assign a name to connected equipment.

- Edit: Creates your own label.

1 Press \uparrow/\downarrow to select the desired letter or number ("_" for a blank space), then press \Rightarrow .

If you input a wrong character
Press \Leftarrow/\Rightarrow to select the wrong character.
Then, press \uparrow/\downarrow to select the correct character.

2 Repeat the procedure in step 1 until the name is completed, then press \oplus .

? Set-up

HDMI Set-up

Allows the TV to communicate with equipment that is compatible with the control for HDMI function, and connected to the HDMI sockets of the TV. Note that communication settings must also be made on the connected equipment.

- **Control for HDMI:** Sets whether or not to link the operations of the TV and the connected equipment that is compatible with control for HDMI.
- **Auto Devices Off:** When this is set to "On", the connected equipment that is compatible with control for HDMI turns off when you switch the TV to standby mode using the remote.

- **Auto TV On:** When this is set to "On", the TV turns on when you turn on the connected equipment that is compatible with control for HDMI.
- **Device Control Keys:** If it is set to "Tuning Keys", you can select a channel tuned by connected equipment and if it is set to "Menu Keys" you can navigate through the menus of the connected equipment using the remote.
- **Device List Update:** Creates or updates the "HDMI Device List". Up to 11 compatible equipment items can be connected, and up to 5 equipment items can be connected to a single socket. Be sure to update the "HDMI Device List" when you change the connections or settings.

? Set-up

- **HDMI Device List:** Displays a list of connected equipment that is compatible with control for HDMI.

Analogue Set-up

- **Auto Tuning (Only in analogue mode):** Tunes in all the available analogue channels. Usually you do not need to do this operation because the channels are already tuned when the TV was first installed. However, this option allows you to repeat the process (e.g., to retune the TV after moving house, or to search for new channels that have been launched by broadcasters).

- **Manual Programme Preset (Only in analogue mode):** Changes the available analogue channel setting. Press \uparrow/\downarrow to select the programme number you want to modify. Then, press \oplus .

System

Presets programme channels manually.

- 1 Press \uparrow/\downarrow to select "System", then press \oplus .
- 2 Press \uparrow/\downarrow to select one of the following TV broadcast systems, then press \leftarrow .

B/G: For western European countries/regions

I: For the United Kingdom

D/K: For eastern European countries/regions

L: For France

? Set-up



- Depending on the country/region selected for "Country", this option may not be available.

Channel

- 1 Press \uparrow/\downarrow to select "Channel", then press \oplus .
- 2 Press \uparrow/\downarrow to select "S" (for cable channels) or "C" (for terrestrial channels), then press \Rightarrow .
- 3 Tune the channels as follows:
If you do not know the channel number (frequency)
Press \uparrow/\downarrow to search for the next available channel. When a channel has been found, the

search will stop. To continue searching, press \uparrow/\downarrow .

If you know the channel number (frequency)

Press the number buttons to enter the channel number of the broadcast you want or your VCR channel number.

- 4 Press \oplus to jump to "Confirm", then press \oplus .
Repeat the procedure above to preset other channels manually.

Label

Assigns a name of your choice, up to five letters or numbers, to the selected channel.

? Set-up

AFT

Allows you to fine-tune the selected programme number manually if you feel that a slight tuning adjustment will improve the picture quality.

Audio Filter

Improves the sound for individual channels in the case of distortion in mono broadcasts. Sometimes a non-standard broadcast signal can cause sound distortion or intermittent sound muting when watching mono programmes. If you do not experience any sound distortion, we recommend that you leave this option set to the factory setting "Off".



- "Audio Filter" is not available when "System" is set to "L".

Skip

Skips unused analogue channels when you press PROG +/- to select channels. (You can still select a skipped channel using the number buttons.)

Confirm

Saves changes made to the "Manual Programme Preset" settings.

? Set-up

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

1 Press \uparrow/\downarrow to select the channel you want to move to a new position, then press \rightarrow .

2 Press \uparrow/\downarrow to select the new position for your channel, then press \oplus .

- Intelligent Picture:
 - On with Indicator: Automatically reduces the picture noise. The signal level bar is displayed when the channel is changed or the display is changed from an input screen to a TV programme.
 - On: Automatically reduces the picture noise.

- Off: Turns off the "Intelligent Picture" feature.

Digital Set-up

Digital Tuning

- Digital Auto Tuning: Tunes in the available digital channels.

This option allows you to retune the TV after moving house, or to search for new channels that have been launched by broadcasters. Press \oplus .

- Programme List Edit: Removes any unwanted digital channels stored on the TV, and changes the order of the digital channels stored on the TV.

? Set-up

1 Press \uparrow/\downarrow to select the channel you want to remove or move to a new position.

Press the number buttons to enter the known three-digit programme number of the broadcast you want.

2 Remove or change the order of the digital channels as follows:

To remove the digital channel:

Press \oplus . After a confirmation message appears, press \leftarrow to select "Yes", then press \oplus .

To change the order of the digital channels:

Press \Rightarrow , then press \uparrow/\downarrow to select the new position for the channel and press \leftarrow .

3 Press \leftarrow RETURN.



- When "Cable" is selected this function may not be available in some countries.
- Digital Manual Tuning: Tunes the digital channels manually.

1 Press the number button to select the channel number you want to manually tune, then press \uparrow/\downarrow to tune the channel.

2 When the available channels are found, press \oplus to store programmes.

Repeat the above procedure to manually tune other channels.

? Set-up



- Not available for Cable connection.

Subtitle Set-up

- Subtitle Setting: When “For Hard Of Hearing” is selected, some visual aids may also be displayed with the subtitles (if TV channels broadcast such information).
- Primary Preferred Language: Selects preferred language which subtitles are displayed in.
- Secondary Preferred Language: Selects secondary preferred language which subtitles are displayed in.

Audio Set-up

- Audio Type: Switches to broadcast for the hearing impaired when “For Hard Of Hearing” is selected.
- Primary Preferred Language: Selects the preferred language used for a programme. Some digital channels may broadcast several audio languages for a programme.
- Secondary Preferred Language: Selects the secondary preferred language used for a programme. Some digital channels may broadcast several audio languages for a programme.

? Set-up

- **Audio Description:** Provides audio description (narration) of visual information if TV channels broadcast such information.
- **Mixing Level:** Adjusts the TV main audio and Audio Description output levels.



- This option is only available when “Audio Description” is set to “On”.
- **MPEG Audio Level:** Adjusts the MPEG audio sound level.

Parental Lock

Sets an age restriction for programmes. Any programme that exceeds the age restriction can only be watched after a PIN Code is entered correctly.




- For cable operators in Netherlands, the PIN code should be entered when the programme rating is above or equal to the age you specify.
 - 1 Press the number buttons to enter your existing PIN code.
If you have not previously set a PIN, a PIN code entry screen appears. Follow the instructions of “PIN Code” below.
 - 2 Press to select the age restriction or “None” (for unrestricted watching), then press .
 - 3 Press RETURN.


? Set-up

PIN Code

To set your PIN for the first time

- 1 Press the number buttons to enter the new PIN code.
- 2 Press  RETURN.

To change your PIN



- 1 Press the number buttons to enter your existing PIN code.
- 2 Press the number buttons to enter the new PIN code.
- 3 Press  RETURN.



- PIN code 9999 is always accepted.

Digital Programme Lock

Locks/unlocks programmes and checks the status of programmes.

- 1 Press the number buttons to enter your existing PIN code or to set the new one.
- 2 Press  to navigate across the programmes and press  to change between “lock” and “unlock” status.

DivX® VOD

- DivX® VOD Registration Code: Displays the registration code that is required to play DivX® VOD content.
- DivX® VOD Deregistration Code: Displays the deregistration code that is required to play DivX® VOD content.

? Set-up

Technical Set-up

- **Auto Service Update:** Enables the TV to detect and store new digital services as they become available.
- **System Update:** This TV set is capable of receiving software upgrades via the broadcast signal. In order to receive upgrades the System Update option in the Technical Setup menu should be set to "On". When an upgrade is detected the user will be informed by a series of on screen displays on how to proceed with the upgrade. Please do not disconnect the set from the mains during the installation procedure.
- **System Information:** Displays the current software version and the signal level.

- **Time Zone:** Allows you to manually select the time zone you are in, if it is not the same as the default time zone setting for your country/region.




- When "Cable" is selected this function may not be available in some countries.
- **Auto DST:** Sets whether or not to automatically switch between summer time and winter time.
 - **On:** Automatically switches between summer time and winter time according to the calendar.
 - **Off:** The time is displayed according to the time difference set by "Time Zone".

? Set-up



- When "Cable" is selected this function may not be available in some countries.
- Service Replacement: Select "On" to automatically change the channel when broadcaster changes transmission of the viewing programme to a different channel.


CA Module Set-up

Allows you to access a pay TV service once you obtain a Condition Access Module (CAM) and a view card. See (32) for the location of the  (PCMCIA) socket.

? Troubleshooting

Picture

No picture or no menu information from equipment connected to the scart connector

- Press  to display the connected equipment list, then select the desired input.
- Check the connection between the optional equipment and the TV.

Double images or ghosting

- Check the aerial/cable connection.
- Check the aerial location and direction.

Picture or sound noise when viewing a TV channel

- Adjust "AFT" (Automatic Fine Tuning) to obtain better picture reception (71).


Some tiny black points and/or bright points appear on the screen


- The picture of a display unit is composed of pixels. Tiny black points and/or bright points (pixels) on the screen do not indicate a malfunction.

No colour on programmes

- Select "Reset" (56).



? Troubleshooting

No colour or irregular colour when viewing a signal from the  COMPONENT IN sockets

- Check the connection of the  COMPONENT IN sockets and check if each sockets are firmly seated in their respective sockets.

Sound

No sound, but good picture

- Press  + or  (Mute).
- Check if the “Speaker” is set to “TV Speaker” (59).
- When using HDMI input with Super Audio CD or DVD-Audio, DIGITAL AUDIO OUT (OPTICAL) may not output audio signals.

? Troubleshooting

Channels

The desired channel cannot be selected

- Switch between digital and analogue mode and select the desired digital/analogue channel.

Some channels are blank

- Scrambled/Subscription only channel. Subscribe to the pay TV service.
- Channel is used only for data (no picture or sound).
- Contact the broadcaster for transmission details.

Digital channels are not displayed

- Contact a local installer to find out if digital transmissions are provided in your area.
- Upgrade to a higher gain aerial.

? Troubleshooting

General

The TV turns off automatically (the TV enters standby mode)

- Check if the "Sleep Timer" (61) or "Idle TV Standby" (61) is activated.
- If no signal is received and no operation is performed in the TV mode for 15 minutes, the TV automatically switches to standby mode.

Distorted picture and/or sound

- Keep the TV away from electrical noise sources such as cars, motorcycles, hair-dryers or optical equipment.

- When installing optional equipment, leave some space between the optional equipment and the TV.
- Check the aerial/cable connection.
- Keep the aerial/cable TV cable away from other connecting cables.

The remote does not function

- Replace the batteries.

HDMI equipment does not appear on "HDMI Device List"

- Check that your equipment is compatible with control for HDMI.

? Troubleshooting

If “Store Display Mode: On” is displayed on the screen

- Your TV is set to “Shop” mode. You need to set “Home” for “Location” in the “Auto Start-up” procedure again.

Not all channels are tuned

- Check support web site for cable provide information.
<http://support.sony-europe.com/TV/DVBC>