

**Panasonic<sup>®</sup>**

**E50 series**

*e***HELP**

## Watching TV

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#### **Meaning of signs :**

 Press the Remote control button

**INFO** Letters in box : Remote control button

**MENU** Letters in Cyan : Menus on screen display

# Watching TV

## Cable / Satellite / Fiber with a box

### Initial setting

---

#### 1. Connecting

Select the wiring method connecting your box to the TV, **AV IN** or **Antenna/Cable in**.

Tip: HDMI will provide the best HD picture

#### 2. Change INPUT



Press the INPUT button to select the proper connection. Wait 2 seconds.

#### 3. Power on your Cable , Satellite or Fiber box

Use the box's remote control to change channels.

- \* If the box is connected to the TV using a COAX cable (Antenna/Cable in), then set the TV channel to CH3 or CH4. Note that the picture will not be in HD.

- \* CC/SAP is not available when watching TV with a Cable or Satellite box connected via HDMI.
- \* If your box is a high definition, then check that it is outputting 720p or 1080i signal.  
Tip: press the TV's **INFO** button to verify.
- \* Check your box "aspect" or "format" settings. It should be set to 16:9, Widescreen or **FULL**.
- \* If the audio volume is too low, check the box's audio settings.
- \* Contact your Cable or Satellite provider for instructions on any box settings.

# Watching TV

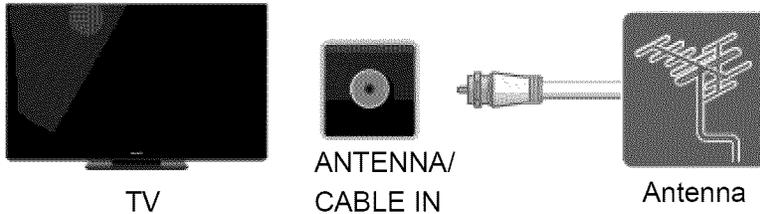
## Antenna / Cable service without a box

### Initial setting

---

#### 1. Connect coax

Connect a COAX wire from either an antenna or Basic Cable service to the TV's "ANTENNA/CABLE IN" screw terminal.



#### 2. Scan the channel

 **MENU** → Setup > ANT/Cable setup > ANT in, Auto program

1. Select Programming source **Cable** or **Antenna** in **Ant in**.
2. Select **Auto program** and select scan mode  
(**All channels** / **Analog only** / **Digital only**).
3. Start scanning.

\* If at the end of the scanning no channels are found, then check:  
Antenna's position - or Availability of Cable service.  
Cable, Satellite or Fiber services with a box are typically connected to the TV's A/V inputs, preferably HDMI, for best HD picture. In such a case, the channel scanning is not needed (set **ANT IN** to **Not used**).

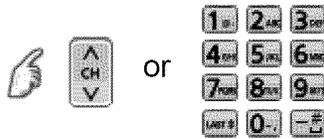
# Watching TV

## Antenna / Cable service without a box

### Select channels

---

- **Select desired channel**



- CH buttons are also available on the TV.

- **Select desired digital channel**

To directly enter a digital channel number use 

- When turning to a digital channel, press the button to enter the minor number in a compound channel number.

(e.g. CH15-1 →    

# Watching TV

## Antenna / Cable service without a box

### Favorite channels (Set)

Channel numbers registered in Favorite are displayed on the favorite tune screen. Select the desired broadcast station with the cursor or use the number buttons.

- Favorite channels cannot be set when using Cable or Satellite box

- **Set the Favorite channel**



**OPTION**

→ Options menu > Set favorite

Select the list number using  $\Delta$  /  $\nabla$  and  or  directly to save the displayed channel.

- **Delete a Favorite channel**



**OPTION**

→ Options menu > Set favorite

Select the list number using  $\Delta$  /  $\nabla$  and  (press and hold) to delete.

\* To change the page in **Set favorite**



**FAVORITE**

or  $\triangleleft$  /  $\triangleright$  repeatedly

# Watching TV

## Antenna / Cable service without a box

### Favorite channels (Display)

---

Channel numbers registered in Favorite are displayed on the favorite tune screen. Select the desired broadcast station with the cursor or use the number buttons.

- Favorite channels cannot be set when using Cable or Satellite box.

- **To display a Favorite channel**

 **FAVORITE** → Favorite channels

Select the list number using  $\triangle$  /  $\nabla$  and  or  directly to displayed on favorite screen.

\* To change the page in **Favorite channels**

 **FAVORITE** or  $\triangleleft$  /  $\triangleright$  repeatedly

# Watching TV

## Antenna / Cable service without a box

### Closed caption

---

#### Viewing with Closed caption



Switches the Closed caption mode.

( **Closed caption Off / Closed caption On / Closed caption On mute** )

- \* CC is not available when watching TV with a Cable or Satellite box connected via HDMI.
- \* Contact your Cable or Satellite operator for instructions on enabling CC with their box.
- \* The TV's CC button does not operate the Satellite or Cable box's CC function.
- \* For viewing the CC of digital broadcasting, set the aspect to FULL (If viewing with H-FILL, JUST, ZOOM or 4:3; characters might be cut off).
- \* If the CC is set to On on both the receiver and TV when the signal is 480i (except for the HDMI connection), the CC may overlap on the TV.
- \* If a digital program is being output in analog format, the CC data will also be output in analog format.
- \* If the recorder or output monitor is connected to the TV, the CC needs to be set up on the recorder or output monitor.

# Watching TV

## Antenna / Cable service without a box

### SAP

#### Listen with SAP (Secondary Audio Programming)

- SAP is not available when watching TV with a Cable or Satellite box connected via HDMI.
- Contact your Cable or Satellite operator for instructions on enabling SAP with their box.
- The TV's **SAP** button does not operate the Satellite or Cable box's **SAP** function.

Select the Audio mode for watching TV.



Digital mode: Select available audio service when receiving a digital channel. Audio track is automatically selected as **DTV language and SAP settings** in **Audio** menu.

**Menu > Audio > DTV language and SAP settings**

- \* If you change the audio settings with the **SAP** button, the DTV language and SAP settings will not change.

<b>Audio track 1 of 7</b>	→ Track number / Number of tracks
<b>English (Main Audio)</b>	→ Current audio track information (language, audio type)
<b>English audio</b>	→ Audio service information

(example)

Analog mode: Select the desired Audio mode. ( **Stereo / SAP / Mono** )

# Watching TV

## Antenna / Cable service without a box

### Other

---

#### 1. Information banner

Displays TV status information. Also, when watching programs via the Antenna/Cable input, INFO will include the channel banner.



#### INFO

Channel / Station identifier / Program title / Closed caption / SAP /  
Rating level / Signal resolution / Picture mode / Aspect ratio /  
Sleep timer remaining time / Clock

#### 2. Options menu

This menu consists of shortcuts to convenient functions.



#### OPTION

**Channel surf mode:** Specify favorites or type of channels to view when pressing the channel up/down button.

**Set favorite:** Set favorite channel

**Edit CH caption:** Edit the channel identifier

**Signal meter:** Check the antenna's signal strength

\* Options menu is only available when the TV is using the Antenna/Cable input, not when using Cable or Satellite box.

# Watching TV

## Blu-ray, DVD, Game Console, etc.

### Connecting and viewing (1)

---

#### 1. Connect device

Verify that the device is connected to the TV properly and connect to desired terminal. Note which terminal the device is connected to (HDMI 1, HDMI 2,... Component or Video)

Component and Composite (Video) in terminals are shared.

Please be careful not to confuse the connection when you use Component or Video.

# Watching TV

## Blu-ray, DVD, Game Console, etc.

### Connecting and viewing (2)

---

#### 2. Select Input

1. Display **input select** menu (With the connected equipment turned ON)



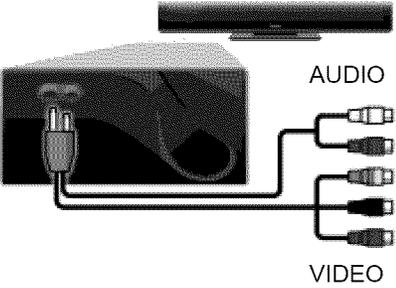
2. Select the input used in step 1

Select correct input source, using  $\triangle / \nabla$  and press

You can also press the corresponding NUMBER button or press **INPUT** repeatedly to cycle through the available inputs. If you are unsure which input to select, wait 2 seconds between each selection.

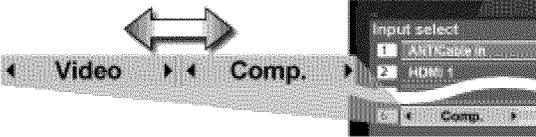
Component and Composite (Video) IN terminals are shared and must be connected using the supplied adapter.

NOTE: One red connector is for video and the other audio.



You need to select **Video** or **Component**.  
(Default: **Video**)

- Press **INPUT** and select **Video <-> Comp.**



- For your convenience, you can edit the inputs with labels that are easy to remember.



Edit Labels



Set ANT/Cable in

3. Operate using your device's remote control.

# Watching TV

## Blu-ray, DVD, Game Console, etc.

### HDMI connection notice

---

HDMI (high-definition multimedia interface) allows you to enjoy high-definition digital images and high-quality sound by connecting the TV unit and HD devices. HDMI-compatible equipment (\*1) with an HDMI or DVI output terminal, such as a Cable or Satellite box or a DVD player, can be connected to the HDMI connector using an HDMI compliant (fully wired) cable.

- HDMI is the world's first complete digital consumer AV interface complying with a non-compression standard.
- If the external equipment has only a DVI output, connect to the HDMI terminal via a DVI to HDMI adapter cable (\*2).
- When the DVI to HDMI adapter cable is used, connect the audio cable to the audio input terminal.
- Audio settings can be made on the **HDMI in** menu screen. Applicable audio signal sampling frequencies (L.PCM): 48 kHz, 44.1 kHz, 32 kHz

(\*1): The HDMI logo is displayed on an HDMI-compliant device.

(\*2): Inquire at your local digital equipment retailer shop.

## **Watching TV**

### **Blu-ray, DVD, Game Console, etc.**

#### **HDMI connection caution**

---

##### **Caution**

- The HDMI terminals on this TV were not specifically designed for use with a PC.
- If the connected device has an aspect adjustment function, set the aspect ratio to "16:9".
- The HDMI connectors are "type A".
- The HDMI connectors are compatible with HDCP (High-Bandwidth Digital Content Protection) copyright protection.
- Devices with no digital output terminal may be connected to the input terminal of either "COMPONENT IN", or "VIDEO IN" to receive analog signals.
- The HDMI input terminal can be used only with the following video signals: 480i, 480p, 720p, 1080i and 1080p. Ensure that the device being connected to the TV can produce one of these video signals.

## Watching TV

### Blu-ray, DVD, Game Console, etc.

#### Input signal

---

- Signals other than below may not be displayed properly.
- The signals are reformatted for optimal viewing on your display.

#### ■ Component and HDMI (\* HDMI only)

Input signal	Horizontal frequency (kHz)	Vertical frequency (Hz)
525 (480) / 60i	15.73	59.94
525 (480) /60p	31.47	59.94
750 (720) /60p	45.00	59.94
1,125 (1,080) /60i	33.75	59.94
1,125 (1,080)/60p	67.43	59.94
1,125 (1,080)/60p	67.50	60.00
1,125 (1,080)/24p *	26.97	23.98
1,125 (1,080)/24p *	27.00	24.00

# Watching TV

## For best picture

### Picture mode

---

#### 1. Change picture mode to suite your settings and taste

1. Select **Picture mode**

 **MENU** → Menu > Picture > Picture mode

Select desired menu using  $\triangle / \nabla$  from menu bar and press 

2. Adjust using  $\triangleleft / \triangleright$

Tip: HDMI will provide the best HD picture

#### 2. Picture mode type

- Vivid:** Provides enhanced picture contrast and sharpness for viewing in a well-lit room.
- Standard:** Recommended for normal viewing conditions with subdued room lighting.
- Cinema:** For watching movies in a darkened room. It provides a soft, film-like picture.
- Game:** For playing video games.
- Custom:** Customizes each item according to your taste.  
Photo is displayed in JPEG menu.

## Watching TV

### For best picture

#### Auto brightness (ECO)

---

Contrast Automatic Tracking System (C.A.T.S.) adjusts the screen brightness and contrast according to the room's ambient light conditions. This ECO feature automatically dims the brightness of the screen when the room lighting is lowered.

C.A.T.S. features a built-in delay when the lighting conditions change. The adjustment happens gradually.

If you prefer a consistent brightness, disable C.A.T.S. by:

- **Menu > Picture >** scroll down to **C.A.T.S.** and turn it off.

Or

- **Menu > Picture > Picture mode** then select viewing mode such as **Custom**.

\* **Standard** picture mode automatically sets C.A.T.S. to **On**.

# Watching TV

## For best picture

### Aspect

---

#### 1. Use **FORMAT** button to change the aspect ratio

Use when the picture has bars (sides or top/bottom) and to zoom.



**FORMAT** ( to cycle through the aspect modes )

480i, 480p: FULL/JUST/4:3/ ZOOM

1080p, 1080i, 720p: FULL/H-FILL/JUST/4:3/ZOOM

- \* Use when the picture does not fill the whole screen or portions of the picture are trimmed.
- \* Some content, such as film-based movies, are available in extra-wide format. Top and bottom bars are unavoidable.
- \* Connected devices, such as Cable/Satellite box, DVD/Blu-ray players and game consoles have their own aspect (format) settings. Adjust the device's aspect settings.

# Watching TV

## For best picture

### Aspect info.

---

- FULL: Enlarges the 4:3 image horizontally to the screen's side edges.  
(Recommended for anamorphic picture)
- JUST: Stretches to justify the 4:3 image to the four corners of the screen.  
(Recommended for normal TV broadcast)
- H-FILL: Enlarges the 4:3 image horizontally to the screen's side edges. The side edges of the image are cut off.
- 4:3: Standard (Note that "Image retention" of the side bar may occur from displaying it for a long time.)
- ZOOM: Enlarges the 4:3 image to the entire screen.  
(Recommended for Letter Box)

### ■ **Zoom adjustments**

Vertical image position and size can be adjusted in "ZOOM"

- ① Select **Zoom adjustments** in the **Picture** menu.



**MENU**

→ **Picture > Aspect adjustments > Zoom adjustments**

- ② V-position: Vertical position adjustment  
Adjust using  $\triangle / \nabla$  to desired position.
- ③ V-size: Vertical size adjustment  
Adjust using  $\triangleleft / \triangleright$  to desired size.

\* Press OK to reset

# Watching TV

## For best audio

### Basic adjustments

---

#### 1. Change the basic audio settings

1. Select desired audio menu



Select desired menu using  $\triangle / \nabla$  from menu bar and press 

2. Adjust

Adjust using  $\triangleleft / \triangleright$

Settings	Description
Reset to defaults	<ul style="list-style-type: none"><li>• Resets Bass, Treble, and Balance adjustments to factory default settings.</li></ul>
Bass	<ul style="list-style-type: none"><li>• Increases or decreases the bass response.</li></ul>
Treble	<ul style="list-style-type: none"><li>• Increases or decreases the treble response.</li></ul>
Balance	<ul style="list-style-type: none"><li>• Emphasizes the left / right speaker volume.</li></ul>

# Watching TV

## For best audio

### Advanced audio



**MENU**

→ Menu > Audio > Advanced audio

Settings	Options	Description
A.I. sound	Off/On	<ul style="list-style-type: none"> <li>Equalizes overall volume levels across all channels and external inputs.</li> </ul>
Surround	Off/On	<ul style="list-style-type: none"> <li>Enhances audio L/R response when listening to stereo. Ideal for music and action movies.</li> </ul>
Bass boost	Off/On	<ul style="list-style-type: none"> <li>Enhances bass sound and provides powerful sound.</li> </ul>
Volume leveler		<ul style="list-style-type: none"> <li>Minimizes volume disparity after switching to external inputs.</li> </ul>
TV speakers	Off/On	<ul style="list-style-type: none"> <li>Enables the TV's built-in speakers.</li> <li>Switches to "Off" when using external speakers.</li> <li>"A.I. sound", "Surround", "Volume leveler", and "Distance to wall" do not work if "Off" is selected.</li> </ul>
HDMI in	Digital/ Comp./Video	<ul style="list-style-type: none"> <li>The default setting is "Digital" for the HDMI connection. (Digital input signal)</li> <li>Select audio input terminal when a DVI cable is connected along with an analog audio input signal.</li> </ul>

# Watching TV

## Computer on TV

### Display PC screen

---

#### 1. Connect PC

Connect the PC's video output to the PC terminal of this TV with PC cable.  
To listen to the PC sound, connect an audio cable between the computer and the TV.

#### 2. Select Input and display

1. Display **Input select** menu (With the connected equipment turned On)



2. Select the PC input  
Select **PC** input using  $\triangle$  /  $\nabla$  and press 
3. Display PC screen

# Watching TV

## Computer on TV

### PC adjustments (1)

---



**MENU**

→ Menu > Picture > PC adjustments

Settings	Options	Description
Reset to defaults		<ul style="list-style-type: none"> <li>Resets all PC adjustments to factory default settings.</li> </ul>
Sync	H & V	<ul style="list-style-type: none"> <li>The H and V sync signals are input from the HD/VD connector.</li> </ul>
	On green	<ul style="list-style-type: none"> <li>Uses a synchronized signal on the Video G signal, which is input from the G connector.</li> </ul>
Dot clock		<ul style="list-style-type: none"> <li>Alleviates the problem if a picture appears to be vertically-striped, flickers partially or is blurred.</li> </ul>
H-position		<ul style="list-style-type: none"> <li>Adjusts the horizontal position using left/right cursor button.</li> </ul>
V-position		<ul style="list-style-type: none"> <li>Adjusts the vertical position using left/right cursor button.</li> </ul>

# Watching TV

## Computer on TV

### PC adjustments (2)



**MENU**

→ Menu > Picture > PC adjustments

Settings	Options	Description
Clock phase		<ul style="list-style-type: none"> <li>• Alleviates the problem if the whole picture appears to flicker or is blurred. First adjust the Dot Clock to get the best possible picture, then adjust the Clock phase so that a clear picture appears.</li> <li>• It may not be possible to display a clear picture due to poor input signals.</li> </ul>
Input resolution		<ul style="list-style-type: none"> <li>• Switches to wide display and selects the appropriate screen resolution.</li> <li>• VGA (640 x 480 pixels), WVGA (852 x 480 pixels), XGA (1,024 x 768 pixels), WXGA (1,280 x 768 pixels)</li> <li>• Options change depending on signals.</li> </ul>
H-frequency V-frequency		<ul style="list-style-type: none"> <li>• Displays the H (Horizontal)/V (Vertical) frequencies.</li> </ul> Display range Horizontal: 15 - 110 kHz Vertical: 48 - 120 Hz

# Watching TV

## Computer on TV

### Input signal

---

- Signals other than below may not be displayed properly.
- The signals are reformatted for optimal viewing on your display.
- Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)

<b>Input signal</b>	<b>Horizontal frequency (kHz)</b>	<b>Vertical frequency (Hz)</b>
640 x 480 @60	31.47	59.94
852 x 480 @60	31.44	59.89
800 x 600 @60	37.88	60.32
1,024 x 768 @60	48.36	60.00
1,280 x 768 @60	47.78	59.87
1,280 x 1,024 @60	63.98	60.02
1,366 x 768 @60	48.39	60.04

# Internet services "VIERA Connect"

## Connect to network

### Network connections (1)

---

#### **1. Contact your Broadband service provider**

If you don't have Internet service from your local provider, please order a high-speed Internet service at no less than the connection speed below. If you already have this service, make sure that the connection speed exceeds the following:

- Required speed (effective): at least 1.5 Mbps for SD and 6 Mbps for HD picture quality, respectively.
- Dial-up Internet service cannot be used for VIERA Connect.

#### **2. Select wired or wireless connection**

If the Cable/DSL modem is close to the TV and you have only one TV set, you may choose a wired connection.

If the Cable/DSL modem is far from the TV and/or you have more TVs in the house, you may want to use a wireless network.

# Internet services "VIERA Connect"

## Connect to network

### Network connections (2)

---

### 3. Connecting to the Internet

#### A. Wireless connection

If you are using the network for connecting various pieces of equipment and want to connect the TV, you could also use a Wireless LAN and Access point to connect the TV to the Internet.



\* To use only DLNA features, you can operate the features without Broadband network environment.  
You can just connect the TV directly to the equipment with a LAN cross cable.

# Internet services "VIERA Connect"

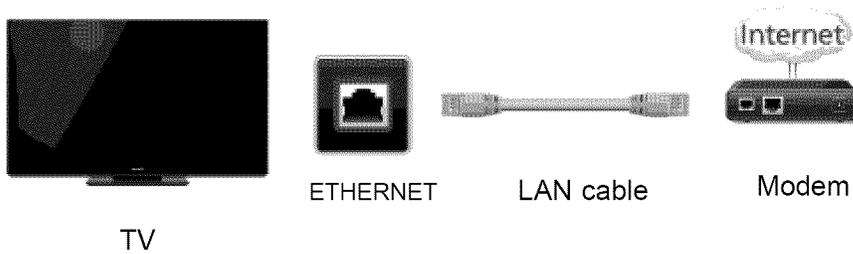
## Connect to network

### Network connections (3)

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#### B. Wired connection (Directly connected)

If you are not using the network for connecting anything else but the TV, you can just connect the TV directly to the Cable/DSL Ethernet Modem with LAN cable.



# Internet services "VIERA Connect"

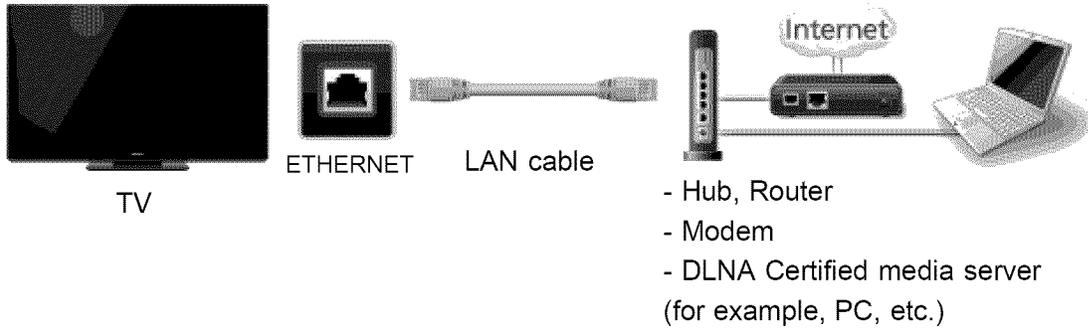
## Connect to network

### Network connections (4)

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#### C. Wired connection (Using Router)

If you are using the network for connecting various pieces of equipment and want to connect the TV, you should use a router to connect the TV to the Internet with LAN straight cable.



- \* To use only DLNA features, you can operate the features without Broadband network environment.  
You can just connect the TV directly to the equipment with a LAN cross cable.

# Internet services "VIERA Connect"

## Network settings

### Setting menu

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This menu is used for connecting to a Broadband environment.

#### 1. Display the Menu and select Network

 **MENU** → Menu > Network

Select **Network** using  $\triangle$  /  $\nabla$  from menu bar and press 

#### 2. Select the options and set

(Connection test/Network connection/Wireless network settings/  
IP address/DNS settings/Network link/Software update/  
New software notice/Network status)

# Internet services "VIERA Connect"

## Network settings

### Connection test

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#### ■ **Connection test**

Check that the all Network settings, and then start **Connection test**

- ① Select **Connection test** using  $\triangle / \nabla$  and press   
(It takes a while to cancel the test.)
  - ② Displayed Connection test screen
    - Check mark appears at front of each check item's box when check has been finished successfully.
  - ③ Complete Connection test
    - Success → Completion screen is displayed.
    - Error → Follow the directions on screen to complete the setting.
- If you perform the Proxy settings, check the Proxy address and the Proxy port number.

# Internet services "VIERA Connect"

## Network settings

### Network connection

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#### ■ Network connection

- ① Select **Network connection** using  $\triangle / \nabla$
- ② Select Network type (**Ethernet cable/Wireless (WiFi)**) with  $\triangleleft / \triangleright$

# Internet services "VIERA Connect"

## Network settings

### Wireless network settings

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#### ■ Wireless network settings

- ① Select **Wireless network settings** with  $\triangle / \nabla$  and press .
- ② Display **Wireless networks** and select access point.  
Or select **connection method** (below) with color key and follow the directions on screen to complete the setting.



#### **WPS (push button):**

You can connect to the access point by pressing a connection button.



#### **WPS (PIN):**

Set the PIN code that is displayed on the TV on the access point.



#### **Manual settings:**

Manually set SSID, security type, and encryption type to match the settings of the access point to which to connect.



#### **Search again:**

Search again an available wireless network within the range.

- \* Wi-Fi Protected Setup is an easy setting of the Wi-Fi Alliance's certification.
- \* For more details on setting of an access point, please refer to operating manual for the access point.
- \* When connecting by 11n (5 GHz), select "AES" as the encryption type for the wireless LAN.

# Internet services "VIERA Connect"

## Network settings

### IP address/DNS settings

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#### ■ IP address/DNS settings

- ① Select **IP address/DNS settings** using  $\triangle / \nabla$  and press 
- ② Displayed **IP address/DNS settings**
- ③ Select **IP setting mode / DNS setting mode** using  $\triangle / \nabla$  and select **Automatic** with  $\triangleleft / \triangleright$
- ④ Each IP address is acquired automatically

If you are using a Broadband router, IP automatic acquisition in DHCP can be used under normal circumstances. If you are not sure, check with the person who installed the equipment, or check the instructions for each device.

#### ● Manual setting

- ① On ③ above, Select **IP setting mode / DNS setting mode** using  $\triangle / \nabla$  and select **Manual** with  $\triangleleft / \triangleright$
- ② Select the item
- ③ Check the specifications of the Broadband router and enter each IP address.  
Or Enter each IP address as specified by the provider.

# Internet services "VIERA Connect"

## Network settings

### Proxy settings

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#### ■ **Proxy settings**

Set only if specified by the provider. It is not required for normal household use.

- ① Select **IP address/DNS settings** using  $\triangle / \nabla$  and press 
- ② Select **Proxy setting** using  $\triangle / \nabla$  and press 
- ③ Select the item and press 
- ④ Enter address or port number and press 

#### **Proxy address**

This is the address of the relay server that is connected to the target server instead of the browser and sends data to the browser. Setting is only required if specified by the provider.

#### **Proxy port**

This number is specified by the provider together with the Proxy address.

# Internet services "VIERA Connect"

## Network settings

### Network link (1)

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#### ■ **Network link**

- ① Select **Network link** using  $\triangle / \nabla$  and press 
- ② Displayed **Network link**
- ③ Select the item and set

#### ● **Edit the name of this TV**

Sets your favorite name for this TV. This name will be displayed on the screen of the other Network compatible equipment.

- ① Select **VIERA network name** using  $\triangle / \nabla$  and press 
- ② Enter name and press 

#### ● **Enabling DLNA remote control**

Select **DLNA remote control** using  $\triangle / \nabla$  and switches **Disable** or **Enable** with  $\triangleleft / \triangleright$

#### ● **Volume setting in DMR operation**

Select **DLNA remote volume control** using  $\triangle / \nabla$  and switches **Disable** or **Enable** with  $\triangleleft / \triangleright$

- Available only when **Enable** is selected in **DLNA remote control** above.

# Internet services "VIERA Connect"

## Network settings

### Network link (2)

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#### ● Enabling Network remote control

(network device such as a smartphone.)

Select **Network remote control** using  $\triangle / \nabla$  and switches **Disable** or **Enable** with  $\triangleleft / \triangleright$

# Internet services "VIERA Connect"

## Network settings

### Software update

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#### ■ Software update

- ① Select **Software update** using  $\triangle / \nabla$  and press 
- ② Press OK to start the Software update screen



- ③ Follow directions on the screen
- Make sure to set **Clock** before the update starts.

# Internet services "VIERA Connect"

## Network settings

### New software notice

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#### ■ New software notice

Displays new software update information when TV is turned on.

- ① Select **New software notice** using  $\triangle / \nabla$
- ② Switches **Off** or **On** with  $\triangleleft / \triangleright$

# Internet services "VIERA Connect"

## Network settings

### Network status

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#### ■ **Network status**

Displayed Current settings and status screen.

- ① Select **Network status** using  $\triangle / \nabla$  and press 
- ② Display **Network status** screen

\* Displayed items differ depending on the type of network connection.

# Internet services "VIERA Connect"

## How to use

### Operate

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#### 1. Access to VIERA Connect

 **INTERNET** → **VIERA Connect**



#### 2. Select and Enjoy Internet Service

(example)

Select the desired item using  $\triangle$  /  $\nabla$  /  $\triangleleft$  /  $\triangleright$  and press 

- USB keyboard is available. Set **Keyboard type** in **Setup** menu.  
(Game pad is also available.)

- \* You need a Broadband environment to use this service.
- \* Please confirm **Network connections** and **Network settings** before use this function.
- \* Depending on the usage conditions, it may take a while to download all the data.
- \* Internet services available in VIERA Connect are subject to change without notice.
- \* Not all VIERA Connect contents are available depending on the country and area.
- \* 3D images are not displayed on center of the home screen depending on the signal.
- \* Video communication (e.g. Skype™) requires an exclusive Communication Camera TY-CC20W.