Please read these instructions before operating your set and retain them for future reference.

Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio and the double-D symbol are trademarks of Dolby Laboratories.
Dear Panasonic Customer

Welcome to the Panasonic family of customers. We hope that you will have many years of enjoyment from your new UHD LCD TV.

To obtain maximum benefit from your set, please read these Instructions before making any adjustments, and retain them for future reference.

Retain your purchase receipt also, and note down the model number and serial number of your set in the space provided on the rear cover of these instructions.

Visit our Panasonic Web Site
https://panasonic.net/cns/prodisplays/

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Before use
● Illustrations and screens in this Operating Instructions are images for illustration purposes, and may be different from the actual ones.
● Descriptive illustrations in this Operating Instructions are created mainly based on the 55-inch model.

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Important Safety Instructions

1) Read these instructions.
2) Keep these instructions.
3) Heed all warnings.
4) Follow all instructions.
5) Do not use this apparatus near water.
6) Clean only with dry cloth.
7) Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

WARNING:
To prevent damage which may result in fire or shock hazard, do not expose this apparatus to rain or moisture.
Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set.
(including on shelves above, etc.)

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11) Only use attachments / accessories specified by the manufacturer.
12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart / apparatus combination to avoid injury from tip-over.
13) Unplug this apparatus during lightning storms or when unused for long periods of time.
14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING:
1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
2) (86-inch model)
   Do not remove the grounding pin on the power plug. This apparatus is equipped with a three pin grounding-type power plug. This plug will only fit a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact an electrician.
   Do not defeat the purpose of the grounding plug.

To prevent electric shock, ensure the grounding pin on the AC cord power plug is securely connected.

If an outside antenna is connected to the receiver, confirm that the antenna system is grounded to protect against voltage surges and built up static charges. Section 810 of the National Electrical Code, ANSI/NFPA 70-1984, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
The cable distribution system should be grounded (earthed) in accordance with ANS/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable.

**EXAMPLE OF ANTENNA GROUNDING AS PER (NEC) NATIONAL ELECTRICAL CODE**

- **Antenna Lead-in Wire**
  - **Ground Clamp**
  - **Antenna Discharge Unit**
  - **Grounding Conductors**
  - **Power Service Grounding Electrode System**

- **Electric Service Equipment**

**FCC STATEMENT**

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**FCC CAUTION:**

To assure continued compliance, follow the attached installation instructions and use only the provided power supply cord. Any changes or modifications not expressly approved by Panasonic Corp. of North America could void the user’s authority to operate this device.

**Supplier’s Declaration of Conformity**

Model No.
- TH-86CQ1U, TH-75CQ1U, TH-65CQ1U,
- TH-55CQ1U, TH-50CQ1U, TH-43CQ1U

Responsible Party:
- Panasonic Corporation of North America
  - Two Riverfront Plaza, Newark, New Jersey
  - 07102-5490

Contact Source:
- Panasonic System Solutions Company of North America
  - 1-877-655-2357

General Contact:
- http://shop.panasonic.com/support

This device complies with Part 15 of the FCC Rules and all applicable IC RSS standards. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
To maintain compliance with EMC regulations, use shielded cables to connect to the following terminals: HDMI input terminal, D-sub input terminal and RS-232C input terminal.

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

WARNING:
• For permanently connected equipment, a readily accessible disconnect device shall be incorporated in the building installation wiring.
• For pluggable equipment, the socket-outlet shall be installed near the equipment and shall be easily accessible.

Note: Image retention may occur. If you display a still picture for an extended period, the image might remain on the screen. However, it will disappear when a general moving picture is displayed for a while.

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• Mac, macOS and Safari are the trademarks of Apple Inc. registered in the United States and other countries.
• HDMI, High-Definition Multimedia Interface and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc. in the United States and other countries.
• Manufactured under license from Dolby Laboratories. Dolby, Dolby Audio and the double-D symbol are trademarks of Dolby Laboratories.

Even if no special notation has been made of company or product trademarks, these trademarks have been fully respected.

Important Safety Notice

WARNING
1) To prevent damage which may result in fire or shock hazard, do not expose this appliance to dripping or splashing.

Do not place containers with water (flower vase, cups, cosmetics, etc.) above the set. (including on shelves above, etc.)

No naked flame sources, such as lighted candles, should be placed on / above the set.

2) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

3) 86-inch model

Do not remove the earthing pin on the power plug. This apparatus is equipped with a three pin earthing-type power plug. This plug will only fit an earthing-type power outlet. This is a safety feature.

If you are unable to insert the plug into the outlet, contact an electrician.

Do not defeat the purpose of the earthing plug.

4) 86-inch model

To prevent electric shock, ensure the earthing pin on the AC cord power plug is securely connected.

CAUTION
This appliance is intended for use in environments which are relatively free of electromagnetic fields.

Using this appliance near sources of strong electromagnetic fields or where electrical noise may overlap with the input signals could cause the picture and sound to wobble or cause interference such as noise to appear.

To avoid the possibility of harm to this appliance, keep it away from sources of strong electromagnetic fields.
**WARNING**

Stability Hazard

A TV set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- ALWAYS use cabinets or stands or mounting methods recommended by the manufacturer of the TV set.
- ALWAYS use furniture that can safely support the TV set.
- ALWAYS ensure the TV set is not overhanging the edge of the supporting furniture.
- ALWAYS educate children about the dangers of climbing on furniture to reach the TV set or its controls.
- ALWAYS route cords and cables connected to your TV so they cannot be tripped over, pulled or grabbed.
- NEVER place a TV set in an unstable location.
- NEVER place the TV set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the TV to a suitable support.
- NEVER place the TV set on cloth or other materials that may be located between the TV set and supporting furniture.
- NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the TV or furniture on which the TV is placed.

If the existing TV set is going to be retained and relocated, the same considerations as above should be applied.

The cable distribution system should be grounded (earthed) in accordance with ANSI/NFPA 70, the National Electrical Code (NEC), in particular Section 820.93, Grounding of Outer Conductive Shield of a Coaxial Cable.

This equipment is not suitable for use in locations where children are likely to be present.
### Safety Precautions

#### WARNING

**Setup**

When installing the wall hanging bracket, read the operating instructions supplied with it carefully and install properly.

We are not responsible for any product damage, etc. caused by failures in the installation environment for the pedestal or wall hanging bracket even during the warranty period.

Small parts can present choking hazard if accidentally swallowed. Keep small parts away from young children. Discard unneeded small parts and other objects, including packaging materials and plastic bags/sheets to prevent them from being played with by young children, creating the potential risk of suffocation.

**Do not place the TV on sloped or unstable surfaces, and ensure that the TV does not hang over the edge of the base.**

- The TV may fall off or tip over.

Install this unit at a location with minimal vibration and which can support the weight of the unit.

- Dropping or falling of the unit may cause injury or malfunction.

**Caution - For use only with UL Listed Wall Mount Bracket with minimum weight/load, please refer to the Specifications. (see page 57)**

- If installed in different directions, heat is generated and it may cause fire or damage to the TV.

**Cautions for Wall or Pedestal Installation**

- The installation should be performed by an installation professional. Installing the TV incorrectly may lead to an accident that results in death or serious injury.

- When installing on a wall, the specified wall hanging bracket or a wall hanging bracket that conforms to VESA standards must be used.

- Some wall hanging brackets cannot be used due to the structure of the product. Check the product drawing before using.

  - **86-inch model**: VESA 600 × 400
  - **75-inch model**: VESA 400 × 400
  - **65-inch model**: VESA 400 × 200
  - **55-inch model**: VESA 400 × 200
  - **50-inch model**: VESA 400 × 200
  - **43-inch model**: VESA 200 × 200
  (see page 10)

- Before installation, be sure to check if the mounting location has enough strength to support the weight of the TV and the wall hanging bracket for anti drop.

- If you terminate the use of the product, ask a professional to remove it promptly.

- When mounting the TV on the wall, prevent the mounting screws and power cable from contacting metal objects inside the wall. An electric shock may occur if they contact metal objects inside the wall.

**When using the LCD TV**

The TV is designed to operate on 110 - 127 V ~, 50/60 Hz.

If problems or malfunction occur, stop using immediately.

If problems occur, unplug the power supply plug.

- Smoke or an abnormal odour come out from the unit.
- No picture appears or no sound is heard, occasionally.
- Liquid such as water or foreign objects got inside the unit.
- The unit has deformed or broken parts.

If you continue to use the unit in this condition, it could result in fire or electric shock.

- Unplug the power supply plug from the wall outlet, and then contact the dealer for repairs.
- To cut off the power supply to this TV completely, you need to unplug the power supply plug from the wall outlet.
- Repairing the unit yourself is dangerous, and shall never be done.
- To enable to unplug the power supply plug immediately, use the wall outlet which you can reach easily.

**Do not touch the unit directly by hand when it is damaged.**

- Electric shock could occur.

**Do not stick any foreign objects into the TV.**

- Do not insert any metal or flammable objects into the ventilations holes or drop them onto the TV, as doing so can cause fire or electric shock.

**Do not remove the cover (cabinet) or modify it.**

- High voltages which can cause fire or electric shocks are present inside the TV. For any inspection, adjustment and repair work, please contact your local Panasonic dealer.

**Ensure that the mains plug is easily accessible.**

- The mains plug shall be connected to a mains socket outlet with a protective earthing connection.

**Do not use any power supply cord other than that provided with this unit.**

- Doing so may cause short-circuit, generates heat, etc., which could cause electric shock or fire.

**Do not use the supplied power supply cord with any other devices.**

- Doing so may cause short-circuit, generates heat, etc., which could cause electric shock or fire.
Clean the power supply plug regularly to prevent it becoming dusty.
• If there is a build up of dust on the plug, the resultant humidity may cause short-circuit, which could cause electric shock or fire. Unplug the power supply plug from the wall outlet and wipe it with a dry cloth.

Do not handle the power supply plug with wet hands.
• Doing so may cause electric shocks.

Securely insert the power supply plug (socket outlet side) and the power supply connector (main unit side) as far as it will go.
• If the plug is not fully inserted, heat may be generated which could cause fire. If the plug is damaged or the wall socket is loose, they shall not be used.

Do not do anything that may damage the power supply cord or the power supply plug.
• Do not damage the cable, make any modifications to it, place heavy objects on top of it, heat it, place it near any hot objects, twist it, bend it excessively or pull it. To do so may cause fire and electric shock. If the power cable is damaged, have it repaired at your local Panasonic dealer.

Do not touch the power supply cord or the plug directly by hand when they are damaged.
• Doing so may cause electric shock or fire due to short-circuit.

Keep the supplied AAA batteries out of reach of children. If accidentally swallowed, it will be harmful to the body.
• Please contact a doctor immediately in case you doubt that the child may have swallowed it.

To prevent the spread of fire, keep candles or other open flames away from this product at all times.

CAUTION

Do not place any objects on top of the TV.
Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table cloths and curtains.
• Doing so may cause the TV to overheat, which can cause fire or damage to the TV.

For sufficient ventilation, see page 10.

Do not place the TV where it may be affected by salt or corrosive gas.
• Doing so may cause the TV to fall due to corrosion, and it may result in injury. Also, the unit may malfunction.

The following number of people are required to carry or unpack this unit.

<table>
<thead>
<tr>
<th>86-inch model</th>
<th>75-inch model</th>
<th>65-inch model</th>
<th>55-inch model</th>
<th>50-inch model</th>
<th>43-inch model</th>
</tr>
</thead>
<tbody>
<tr>
<td>: 4 or more</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

• If this is not observed, the unit may drop, resulting in injury.

When disconnecting the power supply cord, always pull on the plug (socket outlet side) / the connector (main unit side).
• Pulling the cord may damage the cord, and it may cause electric shock or fire due to short-circuit.

Be sure to disconnect all cables before moving the TV.
• If the TV is moved while some of the cables are still connected, the cables may become damaged, and fire or electric shock could result.

Disconnect the power supply plug from the wall socket as a safety precaution before carrying out any cleaning.
• Electric shocks can result if this is not done.

Do not step on, or hang from the TV or the Pedestal.
• They might tip over, or might be broken and it may result in injury. Pay special attention to the children.

Do not reverse the polarity (+ and -) of the battery when inserting.
• Mishandling the battery may cause its explosion or leakage, resulting in fire, injury or damage to surrounding properties.

• Insert the battery correctly as instructed. (see page 13)

Do not use batteries with the outer cover peeling away or removed.
• Mishandling the batteries may cause the batteries to short circuit, resulting in fire, injury or damage to surrounding properties.

Remove the batteries from the remote control transmitter when not using for a long period of time.
• The battery may leak, heat, ignite or burst, resulting in fire or damage to surrounding properties.

Remove exhausted batteries from the remote control immediately.
• Leaving the batteries unattended in it may cause battery leakage, heat or burst.

Do not burn or breakup batteries.
• Batteries must not be exposed to excessive heat such as sunshine, fire or the like.

Do not turn the TV upside down.
Do not position the unit with its liquid crystal panel facing upright.
**Precautions for use**

**Cautions when installing**

**Do not set up the TV outdoors.**
- The TV is designed for indoor use.

**Install this unit at a location which can support the weight of the unit.**
- Dropping or falling of the unit may cause injury.

**Environmental temperature to use this unit**
- When using the unit where it is below 1,400 m (4,593 ft) above sea level: 0 °C to 40 °C (32 °F to 104 °F)
- When using the unit at high altitudes (1,400 m (4,593 ft) and higher and below 2,800 m (9,186 ft) above sea level): 0 °C to 35 °C (32 °F to 95 °F)

**Do not install the unit where it is 2,800 m (9,186 ft) and higher above sea level.**
- Failure to do so may shorten the life of the internal parts and result in malfunctions.

**We are not responsible for any product damage, etc. caused by failures in the installation environment even during the warranty period.**

**Transport only in upright position!**
- Transporting the unit with its liquid crystal panel facing upright or downward may cause damage to the internal circuitry.

**Do not grab the liquid crystal panel.**
- Do not forcibly press the liquid crystal panel, or push it with a pointed object. Applying a strong force to the liquid crystal panel will cause unevenness of the screen display, resulting in malfunction.

**Do not install the product to a place where the product is exposed to direct sunlight.**
- If the unit is exposed to direct sunlight even indoors, the temperature rise of the liquid crystal panel may cause malfunction.

**Required space for ventilation**
- When using the pedestal, leave a space of 10 cm (3 15/16”) or more at the top, left and right, and 5 cm (1 31/32”) or more at the rear, and also keep the space between the bottom of the TV and the table surface.
- If using some other setting-up method (wall-hanging, etc.), follow the manual of it. (If there is no specific indication of installation dimension in the installation manual, leave a space of 10 cm (3 15/16”) or more at the top, bottom, left and right, and 5 cm (1 31/32”) or more at the rear.)

**Minimum distance:**
- a: 10 cm (3 15/16”)
- b: 5 cm (1 31/32”)

- Operation of this unit is guaranteed up to an ambient temperature of 40 °C (104 °F). When installing the unit in a case or chassis, be sure to provide adequate ventilation with a cooling fan or ventilation hole so that the surrounding temperature (inside the case or chassis) including the temperature of the front surface of the liquid crystal panel can be kept at 40 °C (104 °F) or less.

**About the screws used when using a wall hanging bracket that conforms to VESA standards**

- Make sure that all screws are securely tightened.

### Screw pitch for installation

<table>
<thead>
<tr>
<th>Inch model</th>
<th>Screw pitch for installation</th>
<th>Depth of screw hole</th>
<th>Screw (quantity)</th>
</tr>
</thead>
<tbody>
<tr>
<td>86</td>
<td>600 mm × 400 mm</td>
<td>18 mm</td>
<td>M8 (4)</td>
</tr>
<tr>
<td>75</td>
<td>400 mm × 400 mm</td>
<td>18 mm</td>
<td>M8 (4)</td>
</tr>
<tr>
<td>65</td>
<td>400 mm × 200 mm</td>
<td>17 mm</td>
<td>M6 (4)</td>
</tr>
<tr>
<td>55</td>
<td>400 mm × 200 mm</td>
<td>17 mm</td>
<td>M6 (4)</td>
</tr>
<tr>
<td>50</td>
<td>400 mm × 200 mm</td>
<td>17 mm</td>
<td>M6 (4)</td>
</tr>
<tr>
<td>43</td>
<td>200 mm × 200 mm</td>
<td>14 mm</td>
<td>M6 (4)</td>
</tr>
</tbody>
</table>

**Note for connection**

**Removing and inserting the power cord and connection cables**
- When the unit has been installed on the wall, if the power cord and connection cables are difficult to remove and insert, make connections first before installation. Be careful not to allow the cables to be entangled. After installation is completed, insert the power plug to the outlet.
When using

Red, blue or green dots on the screen are a liquid crystal panel-specific phenomenon. This is not a malfunction.
• Although the liquid crystal display is manufactured with high-precision technology, always-lighting dots or non-lighting dots may appear on the screen. This is not a malfunction.

<table>
<thead>
<tr>
<th>Inch model</th>
<th>Dot omission ratio*</th>
</tr>
</thead>
<tbody>
<tr>
<td>86, 75</td>
<td>0.00007% or less</td>
</tr>
<tr>
<td>65, 55, 50, 43</td>
<td>0.00005% or less</td>
</tr>
</tbody>
</table>

* Calculated in sub-pixel units according to the ISO09241-307 standard.

Depending on the temperature or humidity conditions, uneven brightness may be observed. This is not a malfunction.
• This unevenness will disappear while applying current continuously. If not, consult the distributor.

If the TV is not going to be used for any prolonged length of time, unplug the power supply plug from the wall outlet.

Picture noise may occur if you connect / disconnect the cables connected to the input terminals you are currently not watching, or if you turn the power of the video equipment on / off, but it is not a malfunction.

Notes on Using Wired LAN

When setting up the TV at a place, where electric statistic occurs often, take a sufficient antistatic measure before start using.
• When the TV is used at a location, where static electricity occurs often, such as on a carpet, a wired LAN communication is disconnected more often. In that case, remove static electricity and the noise source that may cause problems with an antistatic mat, and re-connect the wired LAN.
• In rare cases, the LAN connection is disabled due to static electricity or noise. In that case, turn off the power of the TV and the connected devices once and then re-turn on the power.

The TV may not work properly due to strong radio wave from the broadcast station or the radio.
• If there is any facility or equipment, which outputs strong radio wave, near the installation location, set up the TV at a location sufficiently far from the source of the radio wave. Or, wrap the LAN cable connected to the LAN terminal by using a piece of metal foil or a metal pipe, of which is grounded at both ends.

Request Regarding Security

When using this unit, take safety measures against the following incidents.
• Personal information being leaked via this unit
• Unauthorized operation of this unit by a malicious third party
• Interfering or stopping of this unit by a malicious third party

Take sufficient security measures.
• Set a password for the LAN control and restrict the users who can log in.
• Make your password difficult to guess as much as possible.
• Change your password periodically.
• Panasonic Corporation or its affiliate companies will never ask for your password directly. Do not divulge your password in case you receive such inquiries.
• The connecting network must be secured by a firewall, etc.
• When disposing the product, initialize the data before disposing.

Cleaning and maintenance

First, remove the mains plug from the mains socket.
Gently wipe the surface of the liquid crystal panel or cabinet by using a soft cloth to remove dirt.
• To remove stubborn dirt or fingerprints on the surface of the liquid crystal panel, dampen a cloth with diluted neutral detergent (1 part detergent to 100 parts water), wring out the cloth firmly, and then wipe away the dirt. Finally, wipe away all the moisture with a dry cloth.
• If water droplets get inside the unit, operating problems may result.

Note
• The surface of the liquid crystal panel is specially treated. Do not use a hard cloth or rub the surface too hard, otherwise this may cause scratches on the surface.

Usage of a chemical cloth
• Do not use a chemical cloth for the liquid crystal panel surface.
• Follow the instructions for the chemical cloth to use it for the cabinet.

Avoid contact with volatile substances such as insect sprays, solvents and thinner.
• This may cause damage to the cabinet or cause peeling of the paint. Furthermore, do not leave it in contact with a rubber or PVC substance for a long time.

Disposal

When disposing the product, ask your local authority or dealer about the correct methods of disposal.
Accessories

Accessories Supply

Check that you have the accessories and items shown.

Remote Control Transmitter
× 1
● DPVF2598ZA/X1

Batteries for the Remote Control Transmitter × 2
(AAA type)

Power supply cord
TH-86CQ1U
(Approx. 3 m)
● DPVF2714ZA/X1

TH-75CQ1U
TH-65CQ1U
TH-55CQ1U
TH-50CQ1U
TH-43CQ1U
(Approx. 1.8 m)
● TZSH3042

Clamper (large) × 2
● DPVF1654ZA

Clamper (small) × 1
● DPVF1653ZA

Attention
● Store small parts in an appropriate manner, and keep them away from young children.
● The part numbers of accessories are subject to change without notice. (The actual part number may differ from the ones shown above.)
● In case you lost accessories, please purchase them from your dealer. (Available from the customer service)
● Dispose the packaging materials appropriately after taking out the items.
Remote Control Batteries

Open the battery cover.

Insert batteries and close the battery cover.
(Insert starting from the side.)

AAA type

Note

- Incorrect installation of the batteries can cause battery leakage and corrosion that will damage the remote control.
- Disposal of batteries should be done in an environment-friendly manner.

Take the following precautions.
1. Batteries shall always be replaced as a pair.
2. Do not combine a used battery with a new one.
3. Do not mix battery types (example; manganese dioxide battery and alkaline battery etc.).
4. Do not attempt to charge, disassemble or burn used batteries.
5. Do not burn or breakup batteries.
   Moreover, batteries must not be exposed to excessive heat such as sunshine, fire or the like.
Kensington security

The security slot of this unit is compatible with the Kensington security slot.

Connections

AC cord connection and fixing / Cable fixing

86-inch model

Back of the unit

AC cord fixing

Plug the connector into the TV unit.

Note

- When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.
- The supplied AC cord is for this unit exclusive use. Do not use this for other purposes.
**Insert the AC cord securely all the way seated on the back side of the unit.**

![AC cord](image)

**Class II equipment**

**Note**
- When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.
- The supplied AC cord is for this unit exclusive use. Do not use this for other purposes.

**Cable fixing**

- 3 clampers are supplied with this unit. Fix the cables at 3 locations using the holes for clamps as shown below.
- If you need more clampers, purchase them from your dealer. (Available from the customer service)

1 For AC cord: clamper (small)
2 For signal cable: clamper (large) x 2
1. Attach the clamper

**Note**
- Wipe off dirt, such as dust, water and oil on the attachment surface, and affix the clamper on the attachment surface by pushing it firmly.
- Once the clamper is affixed, it cannot be reused. Be sure to confirm the attaching position before affixing it.

Remove the tape at the back, and affix the clamper on the flat surface.

2. Bundle the cables

To loosen:
Remove the band from the knob, and pull out the band tip.
## Video equipment connection

<p>| | | | | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AUDIO OUT:</td>
<td>Analogue Audio Output Terminal</td>
<td>Connect to audio equipment with analogue audio input terminal.</td>
<td>(see page 22)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>SERIAL IN:</td>
<td>SERIAL Input Terminal</td>
<td>Control the TV by connecting to PC.</td>
<td>(see page 20)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>LAN:</td>
<td>LAN Terminal</td>
<td>Control the TV by connecting to Network.</td>
<td>(see page 44)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ANTENNA/CABLE IN:</td>
<td>Antenna Terminal</td>
<td>Connect to antenna cable</td>
<td>(see page 22)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>PC IN:</td>
<td>PC Input Terminal</td>
<td>Connect to video terminal of PC.</td>
<td>(see page 19)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>AUDIO IN:</td>
<td>Audio Input Terminal</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>HDMI 1, HDMI 2:</td>
<td>HDMI Input Terminal</td>
<td>Connect to video equipment such as VCR or DVD player, etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>USB:</td>
<td>USB Terminal</td>
<td>Connect the USB memory device to the USB port.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Before connecting

- Before connecting cables, carefully read the operating instructions for the external device to be connected.
- Turn off the power of all devices before connecting cables.
- Take note of the following points before connecting the cables. Failure to do so may result in malfunctions.
  - When connecting a cable to the unit or a device connected to the unit itself, touch any nearby metallic objects to eliminate static electricity from your body before performing work.
  - Do not use unnecessarily long cables to connect a device to the unit or to the unit body. The longer the cable, the more susceptible it becomes. Since using a cable while it is wound makes it act like an antenna, it is more susceptible to noise.
  - When connecting cables, insert them straight into the connecting terminal of the connecting device so that the ground is connected first.
- Acquire any cable necessary to connect the external device to the system that is neither supplied with the device nor available as an option.
- If the outer shape of the plug of a connection cable is large, it may come in contact with the periphery such as a back cover or the plug of an adjacent connection cable. Use a connection cable with the suitable plug size for the terminal alignment.
- When connecting the LAN cable with plug cover, be aware that the cover may come in contact with the back cover and it may be difficult to disconnect.
- Some PC models are not compatible with the unit.
- Use cable compensator when you connect devices to the unit using long cables. Otherwise the image may not be displayed properly.
- Refer to “Preset Signals” (see page 52) for the types of video signals that can be displayed with the unit.

HDMI 1 and HDMI 2 terminals connection

Note

- Video equipment and HDMI cable shown are not supplied with this unit.
- Connect the equipment complying with the HDMI standard.
- Some HDMI equipment may not be able to display picture.
- This TV does not support VIERA LINK.

![HDMI 1 and HDMI 2 terminals connection diagram]

1 HDMI cable (commercially available)
2 Video Cassette Recorder
3 DVD Player
4 PC
Pin assignments and signal names for HDMI Terminal

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T.M.D.S Data2 +</td>
</tr>
<tr>
<td>2</td>
<td>T.M.D.S Data2 Shield</td>
</tr>
<tr>
<td>3</td>
<td>T.M.D.S Data2 -</td>
</tr>
<tr>
<td>4</td>
<td>T.M.D.S Data1 +</td>
</tr>
<tr>
<td>5</td>
<td>T.M.D.S Data1 Shield</td>
</tr>
<tr>
<td>6</td>
<td>T.M.D.S Data1 -</td>
</tr>
<tr>
<td>7</td>
<td>T.M.D.S Data0 +</td>
</tr>
<tr>
<td>8</td>
<td>T.M.D.S Data0 Shield</td>
</tr>
<tr>
<td>9</td>
<td>T.M.D.S Clock +</td>
</tr>
<tr>
<td>10</td>
<td>T.M.D.S Clock Shield</td>
</tr>
<tr>
<td>11</td>
<td>T.M.D.S Clock -</td>
</tr>
<tr>
<td>12</td>
<td>CEC</td>
</tr>
<tr>
<td>13</td>
<td>SCL</td>
</tr>
<tr>
<td>14</td>
<td>SDA</td>
</tr>
<tr>
<td>15</td>
<td>DDC/CEC Ground</td>
</tr>
<tr>
<td>16</td>
<td>+5V DC</td>
</tr>
<tr>
<td>17</td>
<td>Hot Plug Detect</td>
</tr>
</tbody>
</table>

PC IN terminal connection

1 Mini D-sub 15p cable (commercially available)
2 Conversion adapter (if necessary) (commercially available)
3 Stereo mini plug (M3) cable (commercially available)
4 PC

Connect a cable which matches the audio output terminal on the computer. (commercially available)

The type of computer signal that can be connected

- With regard to the typical PC input signals that are described in “Preset Signals” (see page 52), adjustment values such as for the standard picture positions and sizes have already been stored in this unit.
  (Computer signals which can be input are those with a horizontal scanning frequency of 31 to 83 kHz and vertical scanning frequency of 56 to 76 Hz.)
- If signals outside the range of supported frequencies are input, normal images cannot be displayed. Note that some images may not be correctly displayed even if signals are within the range.
- If the PC screen is not displayed, check if the image signal of the PC meets “Preset Signals” (see page 52), and then change the settings. For power-saving purpose, image output may be OFF on a notebook computer. In this case, it may be set to ON with function key operation etc. of the computer. (Refer to the manual of the computer.)
**Note**
- Additional computer, cables and conversion adapter shown are not supplied with this set.
- If the computer being connected is not DDC2B-compatible, you will need to make setting changes to the computer at the time of connection.
- When connecting a computer equipped with a D-sub15 pin terminal or a Mac, use a commercially sold conversion adapter as necessary.
  * There is no need to use an adapter for computers with DOS/V compatible Mini D-sub 15P terminal.
- Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
- For audio, the AUDIO IN terminal can be used.

**Pin assignments and signal names for PC Input Terminal (Mini D-sub 15P)**

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Red video signal input</td>
</tr>
<tr>
<td>2</td>
<td>Green video signal input</td>
</tr>
<tr>
<td>3</td>
<td>Blue video signal input</td>
</tr>
<tr>
<td>4</td>
<td>NC (not connected)</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
</tr>
<tr>
<td>6</td>
<td>GND for red video signal</td>
</tr>
<tr>
<td>7</td>
<td>GND for green video signal</td>
</tr>
<tr>
<td>8</td>
<td>GND for blue video signal</td>
</tr>
<tr>
<td>9</td>
<td>+5 V DC</td>
</tr>
<tr>
<td>10</td>
<td>GND (Ground)</td>
</tr>
<tr>
<td>11</td>
<td>NC (not connected)</td>
</tr>
<tr>
<td>12</td>
<td>DDC data</td>
</tr>
<tr>
<td>13</td>
<td>Hsync Signal input</td>
</tr>
<tr>
<td>14</td>
<td>Vsync Signal input</td>
</tr>
<tr>
<td>15</td>
<td>DDC Clock</td>
</tr>
</tbody>
</table>

**RS232 terminal connection**

The RS232 terminal conforms to the RS-232C interface specification, so that the TV can be controlled by a computer which is connected to this terminal.

**Note**
- Additional computer and cables shown are not supplied with this set.

![RS232 terminal connection diagram]

1. RS-232C Straight cable (commercially available)
2. PC

**Note**
- Select the RS-232C straight cable for communication used for connecting RS232 terminal and computer according to the computer you are using.
Pin assignments and signal names for SERIAL Terminal

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NC (not connected)</td>
</tr>
<tr>
<td>2</td>
<td>Transmitted data</td>
</tr>
<tr>
<td>3</td>
<td>Received data</td>
</tr>
<tr>
<td>4</td>
<td>NC (not connected)</td>
</tr>
<tr>
<td>5</td>
<td>GND (Ground)</td>
</tr>
<tr>
<td>6</td>
<td>NC (not connected)</td>
</tr>
<tr>
<td>7</td>
<td>NC (not connected)</td>
</tr>
<tr>
<td>8</td>
<td>NC (not connected)</td>
</tr>
</tbody>
</table>

These signal names are those of computer specifications.

**Communication parameters**
- Signal level: RS-232C compliant
- Synchronization method: Asynchronous
- Baud rate: 9 600 bps
- Parity: None
- Character length: 8 bits
- Stop bit: 1 bit
- Flow control: None

**Basic format for control data**

The transmission of control data starts with a STX signal, followed by the command, the parameters, and lastly an ETX signal in that order. If there are no parameters, the colon ":" does not need to be sent.

```
STX C1 C2 C3 : P1 P2 P3 P4 P5 ETX
```

Start     Colon     Parameter(s)     End

3-character command (3 bytes)

**Command**

<table>
<thead>
<tr>
<th>Command</th>
<th>Parameter</th>
<th>Control details</th>
</tr>
</thead>
<tbody>
<tr>
<td>PON</td>
<td>(None)</td>
<td>Power ON</td>
</tr>
<tr>
<td>POF</td>
<td>(None)</td>
<td>Power OFF</td>
</tr>
<tr>
<td>AVL</td>
<td>***</td>
<td>VOLUME 000 - 100</td>
</tr>
<tr>
<td>AMT</td>
<td>0</td>
<td>Audio MUTE OFF</td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Audio MUTE ON</td>
</tr>
<tr>
<td></td>
<td>(None)</td>
<td>Input select (toggle)</td>
</tr>
<tr>
<td>IMS</td>
<td>TV1</td>
<td>ANTELLA/CABLE IN input (TV)</td>
</tr>
<tr>
<td></td>
<td>HM1</td>
<td>HDMI 1 input (HDMI1)</td>
</tr>
<tr>
<td></td>
<td>HM2</td>
<td>HDMI 2 input (HDMI2)</td>
</tr>
<tr>
<td></td>
<td>PC1</td>
<td>PC IN input (PC)</td>
</tr>
<tr>
<td></td>
<td>UD1</td>
<td>USB input (USB)</td>
</tr>
<tr>
<td>STV</td>
<td>CUP</td>
<td>TV Channel Up</td>
</tr>
<tr>
<td></td>
<td>CDN</td>
<td>TV Channel Down</td>
</tr>
<tr>
<td>DAM</td>
<td>FULL</td>
<td>Full</td>
</tr>
<tr>
<td></td>
<td>NORM</td>
<td>Normal</td>
</tr>
<tr>
<td></td>
<td>NATV</td>
<td>Native</td>
</tr>
<tr>
<td></td>
<td>ZOOM</td>
<td>Zoom</td>
</tr>
</tbody>
</table>

**Note**
- If an incorrect command is sent, this unit will reply an “ER401” command to the computer.
- If communication has not been established for reasons such as a bad connection between the computer and TV, nothing is returned (not even ER401).
- “ER401” may be returned when a command cannot be received correctly due to interference from the surrounding environment.
  
  Please ensure that the system or software resends the command if this occurs.

**Communication interval**

After getting the feedback, then you can continue the following commands.

Suggest setting a timeout for the command response. (specify 10 seconds or longer)

If multiple commands are transmitted, be sure to wait for the response for the first command to come from this unit before sending the next command.

- When sending a command which does not require parameter, a colon (:) is not needed.
- Consult your local Panasonic dealer for detail instructions on command usage.

For mode details, visit the following web site.

http://panasonic.net/cns/prodisplays/
**AUDIO OUT terminal connection**

- Audio equipment and the cable shown are not supplied with this set.

1. Stereo audio cable (commercially available)
2. Audio equipment

(Note)
- To output sound from AUDIO OUT terminal of the unit, be sure to set [Audio output] or [Speaker] in the [Audio] menu. (see page 34)

**Antenna connection**

Back of the TV

- **VHF/UHF Antenna**
  - NTSC (National Television System Committee): Analog television system
  - ATSC (Advanced Television System Committee): Digital TV Standards include digital high-definition television (HDTV), standard-definition television (SDTV), data broadcasting, multi-channel surround sound audio and interactive television.

- **Cable**
  - You need to subscribe to a cable TV service to enjoy viewing their programming.
  - You can enjoy high-definition programming by subscribing to a high-definition cable service.
USB terminal connection

Connect a USB memory device to the USB port.

**Note**
- Do not connect a USB device other than a USB memory device.
- Turn off the power of the TV when removing a USB memory device.
- If the power is turned off or the USB memory device is removed while accessing data in the USB memory device, the stored data may be destroyed. The access indicator of the USB memory device blinks during data access.

**Supported USB memory device**

<table>
<thead>
<tr>
<th>File System</th>
<th>FAT16/32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Up to 32GB</td>
</tr>
<tr>
<td></td>
<td>(maximum file size 4 GB)</td>
</tr>
</tbody>
</table>

**Note**
- Do not use a USB memory device with a security function or a write protection function.
- Use a USB memory device with a shape that can be inserted in the USB port. Some USB memory devices with special shapes cannot be inserted. Do not forcibly insert a USB memory device. This may damage the connector and cause failure.

### Pin assignments and signal names for USB Terminal

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal name</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>+5 V DC</td>
</tr>
<tr>
<td>②</td>
<td>DATA -</td>
</tr>
<tr>
<td>③</td>
<td>DATA +</td>
</tr>
<tr>
<td>④</td>
<td>GND (Ground)</td>
</tr>
</tbody>
</table>

Power of up to 5V/0.5A can be supplied to an external device when the picture is displayed.

**Note**
- If the direct connection to this unit is not possible due to the size of a stick PC, etc. use a commercially sold extension cable.
- Depending on the type of a USB memory device, it may come in contact with the periphery such as a back cover, and cannot be attached. Use a USB memory device connectable to this unit.
- When connecting the USB memory device, confirm the orientation of the plug to prevent damage to the terminal.
- When removing the USB memory device, note the following.
  - When the access indicator of the connected USB memory device is blinking, it shows the TV is loading the data. Do not remove the USB memory device while blinking.
  - Depending on the USB memory device, the access indicator may remain blinking even when it is not being accessed, or the device is not equipped with an access indicator function, etc. In this case, remove the USB memory device after confirming the following ① or ②.
    ① Switch the input to an input other than [USB], and confirm that the functions that access USB memory device are finished.
    ② Turn the unit off.
  - Do not frequently repeat connecting/disconnecting the USB memory device. Wait at least 5 seconds after connection, and then remove the USB memory device. Before reconnection, wait at least 5 seconds. A certain length of time is required so that the TV can recognise that the USB memory device is switched for connection or disconnection.
  - If the power of this unit is turned off or the USB memory device is removed accidentally while accessing data, the data may not be accessed next time the USB memory device is used. In such a case, turn the power of the main unit off and on.
Identifying Controls

Display

1 Power LED
The Power Indicator will light.
When the power of the unit is ON
(Power button (Unit): ON)
- Picture is displayed: Green
- When the unit enters the standby mode: Red

2 Remote control sensor

1 External input / output terminal
Connects to video equipment, PC, etc. (see page 17)

2 Power button (Unit)
Turns the power On / Off.

3 INPUT (Unit)
Selects the connected device. (see page 27)
Configures the item on menu screen.

4 MENU (Unit)
Displays the menu screen. (see page 30)

5 ^ (Unit) / v (Unit)
When TV input, changes the channel.
Selects the setting item on menu screen. (see page 30)

6 + (Unit) / - (Unit)
Adjusts the volume. (see page 28)
On the main screen, switches settings or adjusts settings level. (see page 30)

Note
- To output sound from the built-in speakers of the unit, be sure to set [Speaker] in the [Audio] menu. (see page 34)
Remote Control Transmitter

1 POWER ON button (I)
- Turns the power on (Picture is displayed) when the TV is turned off (Standby condition).

2 STANDBY button (O)
- Turns the power off (Standby condition) when the TV is turned on.

3 Numeric buttons (0 - 9) / .
- Changes channel. You can also use the button when you enter numeric or dot.
- Input numbers in LAN settings.

4 PICTURE
- Adjust Picture mode. (see page 32)

5 AUDIO
- Changed MTS or audio language. (see page 34)

6 VOL + / VOL -
- Adjusts sound volume level. (see page 28)

7 Navigation keys ( , , , , , )
- Used in the USB menu and HDMI CEC function.

8 ENTER / Cursor buttons ( , , , )
- Used to operate the menu screens. (see page 30)

9 EXIT
- Turns off the menu screens. (see page 30)

10 DISPLAY
- Displays information of displayed channel or signal.

11 ASPECT
- Change aspect ratio. (see page 29)

12 FAVORITE
- Displays registered favorite channel list.

13 MUTE
- Sound mute on / off. (see page 28)

14 CH ^ / v
- Changes channel.

15 INPUT
- Switches input to display on the screen. (see page 27)

16 MENU
- Press to open the OSD menu. (see page 30)

Note
- In this manual, buttons of the remote control and the unit are indicated as < >.
(Example: <INPUT>.)

The operation is mainly explained indicating the remote control buttons but you can also operate with the buttons on the unit when there are the same buttons.
Basic Controls

<Power button (bole) (Unit)>
(Back of the unit)

- 86-inch model
- 75-inch model
- 65-inch model

Remote Control Sensor / Power Indicator

- 86-inch model
- 75-inch model
- 65-inch model
- 55-inch model
- 50-inch model
- 43-inch model

Operate pointing the remote control directly at the unit’s Remote Control Sensor.

Note
- Do not put an obstacle between the remote control sensor of the main unit and the remote control.
- Operate the remote control in front of the remote control sensor or from the area where the sensor can be seen.
- When directly aiming the remote control at the remote control sensor of the main unit, the distance from the front of remote control sensor should be approx. 7 m or less. Depending on the angle, the operation distance may be shorter.
- Do not subject the remote control sensor of the main unit to the direct sunlight or strong fluorescent light.

1 Connect the AC cord plug to the TV.
(see page 14)

2 Connect the plug to the socket outlet.

( Note )
- When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.
- The settings may not be saved if the power plug is disconnected immediately after changing settings with on-screen menu. Disconnect the power plug after a enough period of time. Or, disconnect the power plug after turning the power off with the remote control, RS-232C control or LAN control.

3 Press the <Power button (bole)> on the unit to turn the power of the unit on.

- Power Indicator: Green (Picture is displayed.)
- When the power of the unit is on, the power indicator lights up and remote control operation is possible.
- When the power indicator is lit, it is not necessary to press the <Power button (bole) (Unit)> on the unit. Operate the remote control so that the power indicator turns green (picture is displayed).
To turn the power ON/OFF with the remote control

To turn the power on
- When the power of the unit is on (Power Indicator - red), press <POWER ON button ( ) > then the picture will be displayed.
- Power Indicator: Green (Picture is displayed.)

To turn the power off (Standby condition)
- When the power of the unit is on (Power Indicator - green), press <STANDBY button ( )>, then the power will be turned off.
- Power Indicator: Red (standby)

Note
- After the power plug is disconnected, the power indicator may remain lit for a while. This is not a malfunction.
- Press the <Power button ( ) (Unit)> on the unit to turn the unit off, when the power of the unit is turned on or in standby mode.

When the Unit is turned on for the first time

Following screen will be displayed.

Important:
Please read carefully.
This product’s power save mode has been set to enable (low power mode) before shipping. (To reduce power consumption in standby mode)
During power standby at low power mode settings:
- LAN function cannot be used.

Are you sure you want to use low power mode?
Please select “YES” if you agree with this condition.

Yes  No

Power save mode

When this TV is turned on for the first time after being shipped from the factory, the power save mode setting screen will be displayed.

[Yes]: The TV’s consumption in standby mode is reduced. However, the startup time from standby mode becomes longer.

[No]: It is reduced that startup time from standby mode. However, more power will be consumed in standby mode.

Even after being set, you can change the “Power save mode”. (see page 41)
It is possible to check the channel information.
Press <DISPLAY>.

Current setting status will be displayed.

1 Signal type / Channel position and name / Signal resolution
2 Program start / Finish time
3 Dolby Digital audio track
4 Sound mute on
5 Signal strength
6 Rating (Parental control)
7 Program name and program introduction

● When there is no video signal to the selected input, [No signal] is displayed for about 60 seconds at the end.

The current sound volume level is memorised even if the power is turned off.

It is useful when you want to mute the sound temporarily, for example, when answering the phone or door.

Press <MUTE>.

● Appears on the screen and the sound is muted. Press again to reactivate the sound.

● It is also reactivated when the power is turned on / off or the volume level is changed.
### ASPECT Controls

Press <ASPECT> to move through the aspect options:

![Aspect Options Diagram]

- Normal → [Zoom] → [Full] → [Native]

#### Note
- The aspect mode is memorised separately for each input terminal.

#### List of Aspect Modes

<table>
<thead>
<tr>
<th>Aspect mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>Picture ‹ Enlarged screen</td>
</tr>
<tr>
<td></td>
<td>Pictures are displayed with the aspect ratio of input signals.</td>
</tr>
<tr>
<td>Zoom</td>
<td>Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally to fill the screen. The top and bottom edges as well as the left and right edges of the pictures are cut off.</td>
</tr>
<tr>
<td>Full</td>
<td>Pictures are displayed filling the screen.</td>
</tr>
<tr>
<td>Native</td>
<td>According the input signals to display the picture. Refer to “Preset Signals” (see page 52) for the applicable input signal that can be displayed.</td>
</tr>
</tbody>
</table>

#### Note
- [Native] cannot be used for video signals exceeding the resolution of 3,840 x 2,160 and for the interlace signal.
- [Zoom] cannot be used with PC input.
- Using this TV’s screen-size switching function to compress or expand the screen for commercial or public viewing in establishments like cafes or hotels may infringe on the rights of the creators, as protected by Copyright Law, so please be careful.
- The appearance of the original video may change if you select a screen size with a different aspect ratio than the original image (e.g. TV broadcast or video input from external equipment).
- When 4:3 video is viewed with the whole screen using the screen-size switching function of this TV, the edge of the video may be lost or appear distorted. If you wish to respect the creator’s intentions, set the screen size to [Normal].
- When playing commercial software, parts of the image (like subtitles) may be cropped. In this case select the optimal screen size using the screen-size switching function of this TV. With some software, there may be noise or distortion at the edges of the screen. This is due to the characteristics of the software, and is not a malfunction.
- Depending on the original video size, black bands may remain at the edges of the screen.
On-Screen Menu Displays

1 Display the menu screen.
   Remote Control

2 Select the item.

3 Set.

4 Exit from the menu.

Note
- When changing the settings of the TV, picture or sound disturbance may occur temporarily. This is not a malfunction.

To display the submenu, press <ENTER>.
Menu display list

- Menu that cannot be adjusted is greyed out. Adjustable menu changes depending on signal, input and menu setting.
- The menu will differ depending on the input mode. (Example: TV input)

### [Picture] menu
(see page 32)

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture mode</td>
<td>Advanced</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Backlight</td>
<td>Brightness</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contrast</td>
<td>Color</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tint</td>
<td>Sharpness</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### [Audio] menu
(see page 34)

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound mode</td>
<td>Balance</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bass</td>
<td>Treble</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speaker</td>
<td>Surround</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio output</td>
<td>Visual impaired</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Menu speech</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### [TV] menu
(see page 35)

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH search</td>
<td>CH memory</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Favorite CH</td>
<td>MTS/SAP</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Audio language</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Picture Adjustments

1 Press <MENU> to display the [Picture] menu.

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture mode</td>
<td>Dynamic</td>
<td>Graphic</td>
<td></td>
</tr>
<tr>
<td>Advanced</td>
<td>Sports</td>
<td>Cinema</td>
<td></td>
</tr>
<tr>
<td>Backlight</td>
<td>Standard</td>
<td>Custom</td>
<td></td>
</tr>
<tr>
<td>Brightness</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Contrast</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fill</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sharpness</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 Select the item to adjust with <▲▼>.  
- Menu that cannot be adjusted is greyed out.

3 Adjust with <◄►>.  

4 Press <EXIT> to exit from adjust mode.

To return to the previous screen  
Press <MENU>.

[Picture mode]  
This menu switches to easy-to-see pictures suitable to the picture source or environment where this unit is used.

[Dynamic]:  
Improves contrast and sharpness for viewing in a bright room.

[Graphic]:  
Suitable for PC input.

[Sports]:  
Suitable for sports matches.

[Cinema]:  
Improves the performance of contrast, black and colour reproduction for watching movies in a darkened room.

[Standard]:  
For viewing in standard (evening lighting) environments.

[Custom]:  
Adjusts the manually by using the equaliser to suit your favourite picture quality.

Note  
- [Dynamic]/[Sports]/[Cinema] cannot be selected for the PC input or RGB signal with HDMI input.

[Advanced]  
Selects advanced video settings.

[Aspect ratio]:  
Changes the screen size. (see page 29)

[Overscan]:  
Sets the scan mode used for video input.

[Dynamic backlight control]:  
Optimizes the backlight brightness to enhance contrast and reduce total power consumption.

[Color temperature]:  
Adjusts colour tone. ([10700K], [9300K], [6500K] and [Native])

(Note)  
- Emphasizes red when the numerical value of [Color temperature] is small, and emphasizes blue when it is big.
- [Native] is a colour tone of the panel element.

[Noise reduction]:  
Sets to reduce the video noise.

[Dynamic contrast]:  
Automatically adjusts the contrast by determining the changes in the use of colours for images that constantly change, such as motion pictures.
- The adjustment operation may not be smooth depending on the image. In this case select [Off].

[Cinema reality]:  
Attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded by 24 frames per second.
- The function only affects 480i, 576i, 1080i 50Hz and 1080i 60Hz signal during HDMI input.

[Motion smoother]:  
Selects smooth levels of fast motion scenes. (only for 86-inch model)

[Backlight]:  
Selects the proper brightness and density for the room.

Less ↔ More

[Brightness]:  
Adjusts the entire brightness of the video signals.

Less ↔ More

[Contrast]:  
Adjusts for easier viewing of dark pictures.

Less ↔ More

[Color]:  
Adjusts colour saturation.

Less ↔ More
<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
</tr>
</thead>
</table>
| Tint    | Adjusts hue of skin colour.  
          | Reddish ↔ Greenish |
| Sharpness | Adjusts picture sharpness.  
             | Less ↔ More |
Audio Adjustment

1 Press <MENU> and < ▼ > to display the [Audio] menu.

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sound mode</td>
<td>Standard</td>
<td>Theatre</td>
<td></td>
</tr>
<tr>
<td>Balance</td>
<td>Bass</td>
<td>Treble</td>
<td></td>
</tr>
<tr>
<td>Speaker</td>
<td>Surround</td>
<td>Audio output</td>
<td></td>
</tr>
<tr>
<td>Visual impaired</td>
<td>Menu speech</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2 Select the item to adjust with < ▲ ▼ >.
   ● Menu that cannot be adjusted is greyed out.

3 Adjust with < ◂ ► >.

4 Press <EXIT> to exit from adjust mode.

■ To return to the previous screen
   Press <MENU>.

[Sound mode] Selects your favourite sound mode.
   [Standard]:
      Provides the suitable sound quality for all types of scenes.
   [Theatre]:
      Sets up and get the sound through your Home Theatre systems.
   [Music]:
      Improves sound quality for watching music videos, etc.
   [Sports]:
      Improves sound quality for watching sports program, etc.
   [Custom]:
      Adjusts the sounds manually by using the equaliser to suit your favourite sound quality.

[Balance] Adjusts left and right volumes.
[Treble] Adjusts high pitch sounds.
[Speaker] Internal speakers.
   [Enable]:
      Internal speakers enable.
   [Disable]:
      Internal speakers disable.

[Surround] [Off]: Normal sound
   [On]: Surround sound

[Audio output] Sets the volume of sound output from the audio output terminals.
   [Fixed]:
      Fixes the sounds.
   [Variable]:
      Adjusts the volume by using the VOL button.

[Visual impaired] Select to turn On/Off support methods for visual impaired.
(Only available for digital channels)

[Menu speech] Enable speech function for OSD menu and certain operations.

Note
   ● [Bass] and [Treble] settings are memorised separately for [Standard], [Theatre], [Music] and [Sports] in [Sound mode].
TV Adjustment

1 Press <MENU> and < ▶ > to display the [TV] menu.

2 Select the item to adjust with < ▲ ▼ >.
   - Unadjustable items are greyed out.
     Adjustable items differ depending on the signal, input and the display mode.

3 Adjust with < ◀ ▶ >.

4 Press <EXIT> to exit from adjust mode.

To return to the previous screen
Press <MENU>.

[CH search] Automatically searches for the receivable channels.

[CH memory] Selects the channels to skip.

[Favorite CH] Creates a list of favourite channels.

[MTS/SAP] Selects audio type for the program.

   - Only available for digital TV programs.
Setup menu

1 Press <MENU> and < ▶ > to display the [Setup] menu.

- Picture
  - Language
- Audio
- TV
- Setup
  - Network settings
  - Parental control
  - Closed caption
  - HDMI-CEC control
  - EDID select
  - Position
  - No signal power off
  - Power save mode
  - Audio TV
  - Language
  - Select Return Exit
  - ENTER MENU EXIT

2 Select the item to set with < ▲ ▼ >.
   - Menu that cannot be adjusted is greyed out.
   - Adjustable menu changes depending on signal input and menu setting.

3 Set with < ◀ ◁ ▲ ▼ >.

4 Press <EXIT> to exit from adjust mode.

To return to the previous screen
Press <MENU>.

Language
Select your preferred language.
Selectable languages
- English
- Français
- Español

[Closed caption] Adjusts the Closed Caption settings.
[HDMI-CEC control] Sets for HDMI-CEC function.
[EDID select] EDID select settings change how the content displayed is processed and decoded.
[Position] Adjusts the position for PC input.
[No signal power off] Sets whether or not the TV power off when there is no input signal for more than 10 minutes.
[Power save mode] Reduces power consumption in standby mode.
[Button lock] Limits operation of the buttons on the unit.
[RC control lock] Limits operation of the remote control buttons.
[Front indicator light] Specifies whether to light the power LED.
[Auto play] Sets the type of file to be automatically played from a USB memory device.
[Information] Displays the serial number and software version of this unit.
[All reset] Resets all the settings to the factory default settings.

Note
- Make a note of your password in case you forget it.
  (If you have forgotten your password, consult your local dealer.)
Network settings

Selects the method with which to control the TV from the computer.

[Network settings] submenu will be displayed.

■ [SERIAL IN/LAN select]
RS-232C or LAN function is enable. To control the TV via RS-232C, set [SERIAL IN/LAN select] to [SERIAL IN].

Note
- You cannot use RS-232C and LAN control simultaneously.

■ [LAN setup]
Controls via LAN using the LAN terminal.

[Network information]

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHCP</td>
<td>IP address</td>
<td>Subnet mask</td>
<td>Gateway</td>
</tr>
<tr>
<td>DHCP</td>
<td>Use</td>
<td>000 . 000 . 000 . 000</td>
<td>000 . 000 . 000 . 000</td>
</tr>
</tbody>
</table>

[DHCP], [IP address], [Subnet mask], [Gateway]

1. Press < < > to set [Use] / [No Use] of [DHCP].
   When [No Use] is selected, IP address and other settings can be set manually.

   [DHCP]:
   - [Use]: Use Dynamic IP address.
   - [No Use]: Use Static IP address, Subnet mask, and Gateway.

   [IP address]:
   Enter IP address when [DHCP] is [No Use].

   [Subnet mask]:
   Enter Subnet mask when [DHCP] is [No Use].

   [Gateway]:
   Enter Gateway address when [DHCP] is [No Use].

   Note
   - When [DHCP] is set to [Use], others will be displayed in grey.

Entering numbers

1. Select the address and press <ENTER>.
2. Select digits with the cursor buttons < < | > > and < · >.
3. Change numbers with the cursor buttons < < | > > and the numeric buttons <0 - 9>.
4. Press <ENTER>.
Select [Set] and press <ENTER>.
Save the current network Setup.

( Note )
- To use a DHCP server, make sure the DHCP server is started.
- Contact your network administrator for details on [IP address], [Subnet mask] and [Gateway].
- Shipping condition

[DHCP]: Use

[MAC address]
Displays the MAC address of this unit.

Parental control
Sets to filter programs not suitable for children’s viewing.

[MPAA]: (Voluntary movie rating system)
Sets parental control on movie ratings.

<table>
<thead>
<tr>
<th>Rating</th>
<th>All</th>
<th>FV</th>
<th>L</th>
<th>S</th>
<th>V</th>
<th>D</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV-Y</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>TV-Y7</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>TV-G</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>TV-PG</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>TV-14</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>TV-MA</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

[TV guidelines]:
1. Suggested age

<table>
<thead>
<tr>
<th>Rating</th>
<th>All contents.</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV-Y</td>
<td>All children.</td>
</tr>
<tr>
<td>TV-Y7</td>
<td>Directed to older children.</td>
</tr>
<tr>
<td>TV-G</td>
<td>General audience.</td>
</tr>
<tr>
<td>TV-PG</td>
<td>Parental Guidance suggested.</td>
</tr>
<tr>
<td>TV-14</td>
<td>Parents strongly cautioned.</td>
</tr>
<tr>
<td>TV-MA</td>
<td>Mature audience only.</td>
</tr>
</tbody>
</table>

2. Content

<table>
<thead>
<tr>
<th>Rating</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>FV</td>
<td>Fantasy violence.</td>
</tr>
<tr>
<td>L</td>
<td>Adult language.</td>
</tr>
<tr>
<td>S</td>
<td>Sexual situation.</td>
</tr>
<tr>
<td>V</td>
<td>Violence</td>
</tr>
<tr>
<td>D</td>
<td>Sexually suggestive dialog.</td>
</tr>
</tbody>
</table>

[No rating]
Blocks programs without rating.

[US]
It has two rating systems for reviewing content:
Movie ratings and TV Parental Guidelines.

Movie ratings are used for original movies rated by Motion Picture Association of America (MPAA) as watched on cable TV and not edited for television. The V-CHIP can also be set to block MPAA-rated movies.

The TV Parental Guidelines work in conjunction with the V-CHIP to help parents screen out inappropriate television shows from their children.
The TV rating systems in Canada are based on the Canadian Radio-Television and Telecommunications Commission (CRTC) policy on violence in television programming.

While violence is the most important content element to be rated, the structure developed takes into consideration other program content like language, nudity, sexuality and mature themes.

When setting the V-CHIP on the Canadian system you can choose either the Canadian English ratings or the Canadian French ratings.

**[Can.English ratings]**

Sets parental control on Can.English ratings.

| E (Exempt) | Includes news, sports, documentaries and other information programming; talk shows, music videos, and variety programming. |
| C (Children) | Intended for younger children under the age of 8 years. Pays careful attention to themes that could threaten their sense of security and well-being. |
| C8+ (Children over 8 years old) | Contains no portrayal of violence as the preferred, acceptable, or only way to resolve conflict; nor encourage children to imitate dangerous acts which they may see on the screen. |
| G (General) | Considered acceptable for all age groups. Appropriate viewing for the entire family, contains very little violence, physical, verbal or emotional. |
| PG (Parental Guidance) | Intended for a general audience, but may not be suitable for younger children (under the age of 8) because it could contain controversial themes or issues. |
| 14+ (Over 14 years) | Could contain themes where violence is one of the dominant elements of the storyline, but it must be integral to the development of plot or character. Language usage could be profane and nudity present within the context of the theme. |
| 18+ (Adults) | Intended for viewers 18 years and older and might contain depictions of violence, which while related to the development of plot, character or themes, are intended for adult viewing. Could contain graphic language and portrayals of sex and nudity. |

**[Can.French ratings]**

Sets parental control on Can.French ratings.

| E (Exempt) | Exempt programming. |
| G (General) | All ages and children, contains minimal direct violence, but may be integrated into the plot in a humorous or unrealistic manner. |
| 8ans+ (General but inadvisable for young children) | May be viewed by a wide public audience, but could contain scenes disturbing to children under 8 who cannot distinguish between imaginary and real situations. Recommended for viewing with parent. |
| 13ans+ (Over 13 years) | Could contain scenes of frequent violent scenes and therefore recommended for viewing with parent. |
| 16ans+ (Over 16 years) | Could contain frequent violent scenes and intense violence. |
| 18ans+ (Over 18 years) | Only for adult viewing. Could contain frequent violent scenes and extreme violence. |

**[RRT5]**

Sets the RRT5(Rating Region Table 5) setting.

**[Reset RRT5]**

Resets the RRT5 setting.

**[Setting secret No.]**

It allows to use a secret number to protect certain settings from being accidentally changed. “0000” is set as the default value.

( Note )

- Make a note of your password in case you forget it.
  (If you have forgotten your password, consult your local dealer.)

**[Reset]**

Returns to the factory preset values.
Closed caption

The television include a built-in decoder that is capable of providing a text display of the audio. The program being viewed must be transmitting the Closed caption (CC) information.

[Closed caption] - submenu screen

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Caption display</td>
<td></td>
<td>CC-off</td>
<td></td>
</tr>
<tr>
<td>Analog CC</td>
<td></td>
<td>CC-off</td>
<td></td>
</tr>
<tr>
<td>Digital CC</td>
<td></td>
<td>CC-off when mute</td>
<td></td>
</tr>
<tr>
<td>Caption setup</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

( _Note_ )
- It is only available for TV and AV input.

- [Caption display]
  - [CC off]: To disable Closed caption.
  - [CC on]: To display Closed captions.
  - [CC on when mute]: To display Closed captions when the audio is muted.

- [Analog CC]
  - [CC1 - CC4]: Information related to pictures.
  - [Text1 - Text4]: Textual information.

- [Digital CC]
  The Digital Closed caption menu lets you configure the way you choose to view the digital captioning.

- [Caption setup]
  - [Style]: Text style.
  - [Size]: Text size.
  - [Font]: Text font.
  - [Text color]: Color of text.
  - [Background color]: Color of text box.

( _Note_ )
- It is only available for Digital TV.

HDMI-CEC control

Set for HDMI-CEC function. For details of HDMI-CEC function, refer to “Using HDMI-CEC function”. (see page 51)

[HDMI-CEC control] - submenu screen

- [On]
  When set to [On], the TV will automatically switch to the appropriate HDMI input whenever an HDMI connected equipment is initially turned on and the Play mode is selected.

- [Off]
  Disables HDMI-CEC control.

( _Note_ )
- The HDMI CEC feature of connected HDMI CEC-compatible device must be turned on.

EDID select

The menu is displayed in HDMI1 and HDMI2 inputs. EDID data of each terminal is switched.

[EDID select] - submenu screen

- [4K/60p]
  Sets EDID compatible with 4K video signals (Max. 4096 x 2160 dots, Max. vertical operation frequency 60 Hz).

- [4K/30p]
  Sets EDID compatible with 4K video signals (Max. 4096 x 2160 dots, Max. vertical operation frequency 30 Hz).

( _Note_ )
- It is only available for HDMI source.
Position

Adjusts the position.

[Position] - submenu screen

Note

- In some cases, noise appears outside the area picture is displayed, but it is not a malfunction.
- It is only available for PC input.

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language</td>
<td>Network settings</td>
<td>Parental control</td>
</tr>
<tr>
<td>Closed caption</td>
<td>HDMI-CEC control</td>
<td>EDID select</td>
</tr>
<tr>
<td>Position</td>
<td>No signal power off</td>
<td>Power save mode</td>
</tr>
</tbody>
</table>

- **Auto setup**
  
  Sets the operational mode of the automatic position adjustment.

  Note

  - [Auto setup] may not work when a cropped or dark image is input. In such case, switch to a bright image with borders and other objects are clearly shown, and then try [Auto setup] again.

- **[H-position]**

  Adjusts the horizontal position of the image.

- **[V-position]**

  Adjusts the vertical position of the image.

- **[Dot clock]**

  Periodic striped pattern interference (noise) may occur when a striped pattern is displayed. If this happens, adjust so that any such noise is minimized.

  Note

  - In some cases, noise appears outside the area picture is displayed, but it is not a malfunction.
  - It is only available for PC input.
  - In the case that [Auto setup] cannot work well, [Auto setup] may work well to execute [Reset] before [Auto setup].

- **[Clock phase]**

  Adjusts sampling clock for applicable video. Useful when small characters appear with low contrast and/or there are flickers at corners.

  When using the adjustment pattern, make adjustments so that no horizontal stripe noise appears in it.

  - It should be made only after [Dot clock] has been correctly set.

- **[Reset]**

  Resets the values of [Position] items to the factory default settings.

  Note

  - In some cases, noise appears outside the area picture is displayed, but it is not a malfunction.
  - It is only available for PC input.

  No signal power off

  When this function is set to [Enable], the power is turned off (standby) automatically when there is no signal of the TV for 10 minutes.

  Starting from 1 minute- before the turn off, the remaining time will be displayed.

  ![No signal 33 Sec.]

Power save mode

- **[Off]**

  It is reduced that startup time from standby mode. However, more power will be consumed in standby mode.

- **[On]**

  The TV’s consumption in standby mode is reduced. However, the startup time from standby mode becomes longer.

  Note

  - If set to [On], certain serial commands and LAN control cannot be used in standby mode.
**Button lock**

Disables the TV buttons.

[Button lock] - submenu screen

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Network settings</td>
<td>Unlocked</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parental control</td>
<td>Lock all</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Closed caption</td>
<td>Lock except volume</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI-CEC control</td>
<td>Lock except power</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDID select</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Position</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No signal power off</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power save mode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Button lock</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **[Unlocked] / [Locked]**
  - **[Unlocked]**: (55/50/43 inch model)
    All the buttons on main unit can be used.
  - **[Unlocked]**: (86/75/65 inch model)
    The button on main unit can be used.
  - **[Locked]**: (86/75/65 inch model)
    The button on main unit cannot be used.

- **[Lock all]**
  (only for 55-inch model 50-inch model 43-inch model)

  All the buttons on main unit cannot be used.

- **[Lock except volume]**
  (only for 55-inch model 50-inch model 43-inch model)

  Disabling all button operations on main unit except < + > and < - >.

- **[Lock except power]**
  (only for 55-inch model 50-inch model 43-inch model)

  Disabling all button operations on main unit except <Power button (d)>.

( Note )

- Press <PLAY (>) until "L" appears in the screen to disable [Button lock]. Before the "L" disappears, pressing the following sequence cursor buttons < ▲ ▼ ◀▶ >
- You can also disconnect the power cord and then reconnecting the power cord while pressing the <Power button (d) (Unit)> on the TV.

**RC control lock**

Disables the remote control buttons.

[RC control lock] - submenu screen

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parental control</td>
<td>Unlocked</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Closed caption</td>
<td>Lock all</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI-CEC control</td>
<td>Lock except volume</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDID select</td>
<td>Lock except power</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Position</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No signal power off</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power save mode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Button lock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RC control lock</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **[Unlocked]**
  All the buttons on your remote control can be used.

- **[Lock all]**
  All the buttons on your remote control cannot be used.

- **[Lock except volume]**
  Disabling all button operations on your remote control except <VOL + > and <VOL - >.

- **[Lock except power]**
  Disabling all button operations on your remote control except <POWER ON button (1)> / <STANDBY button (0)>

( Note )

- Press <PLAY (>) until "L" appears in the screen to disable [RC control lock]. Before the “L” disappears, pressing the following sequence cursor buttons < ▲ ▼ ◀▶ >
- You can also disconnect the power cord and then reconnecting the power cord while pressing the <Power button (d) (Unit)> on the TV.

**Front indicator light**

Enables / Disables the power LED.

[Front indicator light] - submenu screen

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Closed caption</td>
<td>On</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI-CEC control</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EDID select</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Position</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No signal power off</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power save mode</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Button lock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>RC control lock</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front indicator light</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

( Note )

- You can also disconnect the power cord and then reconnecting the power cord while pressing the <Power button (d) (Unit)> on the TV.
**Auto play**

Sets the type of file to be automatically played from a USB memory device.

[Auto play] - submenu screen

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI-CEC control</td>
<td>![DISABLED]</td>
<td>![Photo]</td>
<td>![Video]</td>
</tr>
<tr>
<td>EDID select</td>
<td>![DISABLED]</td>
<td>![Photo]</td>
<td>![Video]</td>
</tr>
<tr>
<td>Position</td>
<td>![DISABLED]</td>
<td>![Photo]</td>
<td>![Video]</td>
</tr>
<tr>
<td>No signal power off</td>
<td>![DISABLED]</td>
<td>![Photo]</td>
<td>![Video]</td>
</tr>
<tr>
<td>Power save mode</td>
<td>![DISABLED]</td>
<td>![Photo]</td>
<td>![Video]</td>
</tr>
<tr>
<td>Button lock</td>
<td>![DISABLED]</td>
<td>![Photo]</td>
<td>![Video]</td>
</tr>
<tr>
<td>RC control lock</td>
<td>![DISABLED]</td>
<td>![Photo]</td>
<td>![Video]</td>
</tr>
<tr>
<td>Front indicator light</td>
<td>![DISABLED]</td>
<td>![Photo]</td>
<td>![Video]</td>
</tr>
<tr>
<td>Auto play</td>
<td>![DISABLED]</td>
<td>![Photo]</td>
<td>![Video]</td>
</tr>
</tbody>
</table>

- **[Disable]** Disables the Auto playback function.

- **[Photo]**
  
  Photos in a USB memory device can be played automatically. (*.jpg file only)

- **[Video]**
  
  Video in a USB memory device can be played automatically. (*.mp4 file only)

**Note**

- Photos and video cannot be played automatically at the same time. (see page 47)

**Information**

Displays the display information.

[Information] - submenu screen

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDID select</td>
<td>![Model] TH-50CQ1U</td>
<td>![Version] V0.07(MAIN)/V0.03(LAN)</td>
<td>![Serial number] NA</td>
</tr>
<tr>
<td>Position</td>
<td>![Model] TH-50CQ1U</td>
<td>![Version] V0.07(MAIN)/V0.03(LAN)</td>
<td>![Serial number] NA</td>
</tr>
<tr>
<td>No signal power off</td>
<td>![Model] TH-50CQ1U</td>
<td>![Version] V0.07(MAIN)/V0.03(LAN)</td>
<td>![Serial number] NA</td>
</tr>
<tr>
<td>Power save mode</td>
<td>![Model] TH-50CQ1U</td>
<td>![Version] V0.07(MAIN)/V0.03(LAN)</td>
<td>![Serial number] NA</td>
</tr>
<tr>
<td>Button lock</td>
<td>![Model] TH-50CQ1U</td>
<td>![Version] V0.07(MAIN)/V0.03(LAN)</td>
<td>![Serial number] NA</td>
</tr>
<tr>
<td>RC control lock</td>
<td>![Model] TH-50CQ1U</td>
<td>![Version] V0.07(MAIN)/V0.03(LAN)</td>
<td>![Serial number] NA</td>
</tr>
<tr>
<td>Front indicator light</td>
<td>![Model] TH-50CQ1U</td>
<td>![Version] V0.07(MAIN)/V0.03(LAN)</td>
<td>![Serial number] NA</td>
</tr>
<tr>
<td>Auto play</td>
<td>![Model] TH-50CQ1U</td>
<td>![Version] V0.07(MAIN)/V0.03(LAN)</td>
<td>![Serial number] NA</td>
</tr>
<tr>
<td>Information</td>
<td>![Model] TH-50CQ1U</td>
<td>![Version] V0.07(MAIN)/V0.03(LAN)</td>
<td>![Serial number] NA</td>
</tr>
</tbody>
</table>

**All reset**

It is possible to reset the data to the factory settings.

[All reset] - submenu screen

<table>
<thead>
<tr>
<th>Picture</th>
<th>Audio</th>
<th>TV</th>
<th>Setup</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position</td>
<td>![No signal power off]</td>
<td>![Power save mode]</td>
<td>![Button lock]</td>
</tr>
<tr>
<td>No signal power off</td>
<td>![No signal power off]</td>
<td>![Power save mode]</td>
<td>![Button lock]</td>
</tr>
<tr>
<td>Power save mode</td>
<td>![No signal power off]</td>
<td>![Power save mode]</td>
<td>![Button lock]</td>
</tr>
<tr>
<td>Button lock</td>
<td>![No signal power off]</td>
<td>![Power save mode]</td>
<td>![Button lock]</td>
</tr>
<tr>
<td>RC control lock</td>
<td>![No signal power off]</td>
<td>![Power save mode]</td>
<td>![Button lock]</td>
</tr>
<tr>
<td>Front indicator light</td>
<td>![No signal power off]</td>
<td>![Power save mode]</td>
<td>![Button lock]</td>
</tr>
<tr>
<td>Auto play</td>
<td>![No signal power off]</td>
<td>![Power save mode]</td>
<td>![Button lock]</td>
</tr>
<tr>
<td>Information</td>
<td>![No signal power off]</td>
<td>![Power save mode]</td>
<td>![Button lock]</td>
</tr>
<tr>
<td>All reset</td>
<td>![Yes]</td>
<td>![No]</td>
<td>![Yes]</td>
</tr>
</tbody>
</table>

- ![Yes]: All settings except for Parental control are initialized.
- ![No]: No initialization.

- ![Yes]: All settings except for Parental control are initialized.
- ![No]: No initialization.
Using Network Function

This unit has a network function and you can control the TV connected to the network using your computer.

Necessary environment for computers to be connected

First of all, confirm your computer whether it has a wired LAN.
Before connecting the TV to the computer, be sure to check the following settings.

Check 1: About LAN cable
- Connect the cable properly.
- Use LAN cable that is compatible with category 5e or above.

Check 2: Wired LAN settings

Computer with a built-in wired LAN function
- Switch on the wired LAN.

Computer without a built-in wired LAN function
- Check that your wired LAN adapter is recognized properly and it is switched on.
- Install the wired LAN adapter driver beforehand.
  For details on how to install the driver, refer to the instructions accompanying the wired LAN adapter.

Example of network connection

<table>
<thead>
<tr>
<th>TV (Back of the unit)</th>
<th>PC</th>
<th>LAN terminal</th>
<th>LAN cable (commercially available)</th>
<th>Hub or broadband router</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

Note
- When [Power save mode] is set to [On], the control is disabled in the standby mode.
- To use the network function, set each item in [Network settings] and make sure to select [LAN]. (see page 37)
- You cannot use RS-232C and LAN control simultaneously.

LAN Terminal connection

For LAN cable, use shielded cable, otherwise picture noise may be caused.
Make sure the broadband router or hub supports 10BASE-T / 100BASE-TX / 1000BASE-T.
Touching the LAN Terminal with a statically charged hand (body) may cause damage to the device due to its discharge.
Do not touch the LAN Terminal or the metal part of the LAN cable.
For instructions on connection, consult your network administrator.
Settings to connect to a LAN

[Important]
The network environment when controlling via LAN is required to be physically isolated from the outside network or not illegally connected / controlled by unknown equipment with the Firewall.

Set the TV’s IP address and subnet mask to match the settings of your LAN. These settings can be made on either the TV or a computer connected to the TV. The settings depend on the configuration of your LAN. For instructions on connection, consult your network administrator.

To set on the TV

Set [SERIAL IN/LAN select] of [Network settings] on the [Setup] menu to [LAN], and then set the [LAN setup] options. (see page 37)
After setting each item, select [Set] and press <ENTER>.

Network information
Displays LAN setting information. (see page 37)

Command-based control
You can control the TV using serial commands (see page 21) via terminal software and other appropriate applications.
Read the manual for the terminal software for detailed instructions.

Supported commands
Commands used in the serial control are supported. (see page 21)

- Default user name and password are as follows:
  User name: dispadmin
  Password: @Panasonic
If you change user name and password, please use the command below by serial line.

<table>
<thead>
<tr>
<th>Command</th>
<th>Parameter</th>
<th>Control details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SSU:UNM</td>
<td><em>...</em></td>
<td>LAN control user name (Max 16 Parameters)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range of parameters: [space] 0 1 2 3 4 5 6 7 8 9 AB C D E F G H I J K L M N O P Q R S T U V W X Y Z _ a b c d e f g h i j k l m n o p q r s t u v w x y z - @</td>
</tr>
<tr>
<td>SSU:UPW</td>
<td><em>...</em></td>
<td>LAN control password (Max 16 Parameters)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Range of parameters: [space] 0 1 2 3 4 5 6 7 8 9 AB C D E F G H I J K L M N O P Q R S T U V W X Y Z _ a b c d e f g h i j k l m n o p q r s t u v w x y z - @</td>
</tr>
</tbody>
</table>

1 Connect the computer to the TV.
   1. Specify the IP address and data port number (10101) and connect the computer to the TV. When connection has been established successfully, [Login:] is returned as response.
   2. Send the user name.
      - Send [user name] + [ ].
      - If the user name is not set, send [ ].
      - When the transmission is successful, [ ] is returned as response.
   3. Send the password.
      - Send [password] + [ ].
      - If the password is not set, send [ ].
      - When the transmission is successful, [OK ] is returned as response.

2 Send commands to control the TV.
The commands used are the same as those for RS-232C. Refer to the communication procedure (see page 21) for operation.
Usable commands are provided in the serial command table (see page 21).

3 Disconnect the connection with the TV and quit the function.
   - Send [BYE ]
     When the transmission is successful, [goodbye] is returned and the connection is disconnected.

Note
- The TV automatically will disconnect one minute after receiving the last data without [BYE] command.
- Repeating the procedure in 1 to 3 every time you send / receive a command or a group of commands is recommended for shortening the time for which the port is open.
Using “USB media file playback function”

It allows you to enjoy photo, music or video recorded on a USB memory device. You can also play Music file during Photo file display.

For information on USB memory device, see page 23.

■ Supported formats

The unit’s Media Player supports the formats below.

Save immediately below root in USB memory.

### Still pictures

<table>
<thead>
<tr>
<th>Extension</th>
<th>Format</th>
<th>Limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>jpg/jpeg</td>
<td>JPEG</td>
<td>Maximum 15 360 x 8 640 (supports baseline only) YUV, RGB</td>
</tr>
</tbody>
</table>

### Motion pictures

<table>
<thead>
<tr>
<th>Extension</th>
<th>Video</th>
<th>Audio</th>
</tr>
</thead>
<tbody>
<tr>
<td>mp4</td>
<td>H.264/ Main Profile and High Profile @ Level4.0</td>
<td>1920x1080 @ 30.0 Bit rate: Maximum 20Mbps</td>
</tr>
<tr>
<td></td>
<td>H.264/ Main Profile and High Profile @ Level4.0</td>
<td>MP3 (MPEG-1 Layer2, MPEG-1 Layer3, MPEG-2 Layer3) AC3, LPCM, ADPCM, AAC, DD+, HE-AAC</td>
</tr>
<tr>
<td>ts</td>
<td>MPEG2/ MP @ HL</td>
<td>1920x1080 @ 30.0 Bit rate: Maximum 20Mbps</td>
</tr>
<tr>
<td></td>
<td>MPEG2/ Main Profile</td>
<td></td>
</tr>
<tr>
<td>mpg</td>
<td>MPEG1/ Main Profile</td>
<td>1920x1080 @ 30.0 Bit rate: Maximum 20Mbps</td>
</tr>
<tr>
<td></td>
<td>MPEG2/ Main Profile</td>
<td></td>
</tr>
<tr>
<td>avi</td>
<td>MPEG2/ MP @ HL</td>
<td>1920x1080 @ 30.0 Bit rate: Maximum 20Mbps</td>
</tr>
<tr>
<td></td>
<td>H.264</td>
<td></td>
</tr>
<tr>
<td></td>
<td>JPEG</td>
<td>640x480 @ 30.0 Bit rate: Maximum 10Mbps</td>
</tr>
</tbody>
</table>

### Music files

<table>
<thead>
<tr>
<th>Extension</th>
<th>Audio codec</th>
</tr>
</thead>
<tbody>
<tr>
<td>mp3</td>
<td>MP3 (MPEG-1 Layer2, MPEG-1 Layer3, MPEG-2 Layer3)</td>
</tr>
</tbody>
</table>

### Audio

<table>
<thead>
<tr>
<th>Codec</th>
<th>Sampling rates</th>
<th>Bit Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP3</td>
<td>16KHz ~ 48KHz</td>
<td>8Kbps ~ 384Kbps</td>
</tr>
<tr>
<td></td>
<td>16KHz ~ 48KHz</td>
<td>8Kbps ~ 320Kbps</td>
</tr>
<tr>
<td></td>
<td>16KHz ~ 48KHz</td>
<td>8Kbps ~ 320Kbps</td>
</tr>
<tr>
<td>AC3</td>
<td>32KHz, 44.1KHz, 48KHz</td>
<td>32Kbps ~ 640Kbps</td>
</tr>
<tr>
<td>LPCM</td>
<td>8KHz ~ 48KHz</td>
<td>64Kbps ~ 1.5Mbps</td>
</tr>
<tr>
<td>ADPCM</td>
<td>8KHz ~ 48KHz</td>
<td>384Kbps</td>
</tr>
<tr>
<td>DD+</td>
<td>32KHz, 44.1KHz, 48KHz</td>
<td>32Kbps ~ 6Mbps</td>
</tr>
<tr>
<td>AAC</td>
<td>8KHz ~ 48KHz</td>
<td></td>
</tr>
<tr>
<td>HE-AAC</td>
<td>8KHz ~ 48KHz</td>
<td></td>
</tr>
</tbody>
</table>

**Note**

- In some cases it may not be possible to play the above files.
- A maximum of 32 alphanumeric characters can be used for folder name and file name.
- Do not use a file that is over 4 GB.
Play file

**Note**

- Files are displayed/played according to the order you copy them to a USB memory device. Copy files to a USB memory device according to the order you want to play.
- You can have photo or video files play automatically when a USB memory device is connected or the power is turned on. (see page 47)

**Select the type of file to be played**

1. Insert the USB memory device for Media Player to the USB terminal on the side of the TV.

**Note**

- Depending on the type of a USB memory device, it may come in contact with the periphery such as a back cover, and cannot be attached. Use a USB memory device connectable to this unit.

2. Change INPUT to [USB].
3. Select the type of file to be played with the cursor buttons < ◄ / ► >, and press <ENTER>.

**Playing files**

1. Displays the file to be played.
   - Select the folder with the cursor buttons < ◄ / ► > and press <ENTER> to show the files in the folder.
2. Select the file you want to play, and press <ENTER>.
   - The file is selected.
   - Multiple files can be selected. You can also select files in different folders.
3. Press <PLAY (►)>.
   - The selected files are played.

**Note**

- The played screen size is [Normal].
- If you press <PLAY (►)> without selecting a file, all the files in the folder will be played.
- Select [Return] folder to return to the root folder, select [Up folder] folder to return to the next higher folder.
- The volume can be adjusted with the <VOL +> / <VOL -> and <MUTE> on the remote control.
- For operations during play, see page 48.

To stop playing
Press <EXIT>.

**Auto playback**

Photos or video in a USB memory device can be played automatically. (MAX 30 files)

**Preparations**

Prepare the files. Name the file to be played “001-030” such as “001.jpg” - “030.jpg”.

1. Creates a folder named "AUTO_PLAYBACK" in the root folder of a USB memory device and copy the files to be automatically played to the folder.
2. Select the type of file with the cursor buttons < ◄ / ► > and press <ENTER>.

**Auto playback of files**

Connect a USB memory device (see page 23) and turn on the TV power.

Auto play starts.
You can connect a USB memory device (see page 23) after turning on the TV power.

**Note**

- Photos and video cannot be played automatically at the same time.
- Auto play repeatedly plays all photo or video files in the “AUTO_PLAYBACK” folder.
- During auto playback, only the button operations of <VOL +> / <VOL -> and <EXIT> are enabled.

**To stop auto playing**
Press <EXIT>.
**Operations during play**

When playing is started, the operation bar is displayed in the bottom of the screen and you can perform the steps below. If the operation bar is not displayed, press <MENU> to display it.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLAY/PAUSE</td>
<td>To play the file.</td>
</tr>
<tr>
<td></td>
<td>To pause the file.</td>
</tr>
<tr>
<td>FB</td>
<td>To play fast backward.</td>
</tr>
<tr>
<td></td>
<td>(Audio and Video only)</td>
</tr>
<tr>
<td>FF</td>
<td>To play fast forward.</td>
</tr>
<tr>
<td></td>
<td>(Audio and Video only)</td>
</tr>
<tr>
<td>Previous</td>
<td>To go to previous file.</td>
</tr>
<tr>
<td>Next</td>
<td>To go to next file.</td>
</tr>
<tr>
<td>STOP</td>
<td>To stop the playing file.</td>
</tr>
<tr>
<td>Repeat none</td>
<td>Repeat none -</td>
</tr>
<tr>
<td>Repeat 1</td>
<td>After starting playing the files selected</td>
</tr>
<tr>
<td>Repeat all</td>
<td>in the menu, each file in the same</td>
</tr>
<tr>
<td></td>
<td>folder is played once in order until the</td>
</tr>
<tr>
<td></td>
<td>last one.</td>
</tr>
<tr>
<td></td>
<td>Also, if you start playing several files</td>
</tr>
<tr>
<td></td>
<td>checked in the menu, they are played</td>
</tr>
<tr>
<td></td>
<td>once.</td>
</tr>
<tr>
<td></td>
<td>Repeat 1 -</td>
</tr>
<tr>
<td></td>
<td>The one file selected or checked in the</td>
</tr>
<tr>
<td></td>
<td>menu is repeatedly played.</td>
</tr>
<tr>
<td></td>
<td>Repeat all -</td>
</tr>
<tr>
<td></td>
<td>To play and repeat files in the playlist.</td>
</tr>
<tr>
<td>Set A</td>
<td>Set the interval to play and repeat.</td>
</tr>
<tr>
<td>Set B</td>
<td>Set the start point of the interval.</td>
</tr>
<tr>
<td>None</td>
<td>Set the end point of the interval.</td>
</tr>
<tr>
<td>Random On</td>
<td>Random On -</td>
</tr>
<tr>
<td>Random Off</td>
<td>To play and repeat all files in random.</td>
</tr>
<tr>
<td></td>
<td>Random Off -</td>
</tr>
<tr>
<td></td>
<td>To play and repeat all files in order.</td>
</tr>
<tr>
<td>Music On</td>
<td>When selected [Music On], the photo and</td>
</tr>
<tr>
<td>Music Off</td>
<td>music files in the same folder are</td>
</tr>
<tr>
<td></td>
<td>synchronized.</td>
</tr>
<tr>
<td>Interval</td>
<td>To select the slideshow time.</td>
</tr>
<tr>
<td>Playlist</td>
<td>To show the playlist.</td>
</tr>
<tr>
<td>Info.</td>
<td>To show the file information.</td>
</tr>
<tr>
<td>Rotate (Clockwise)</td>
<td>To rotate the file 90 degrees</td>
</tr>
<tr>
<td></td>
<td>clockwise.</td>
</tr>
<tr>
<td>Rotate (Counter-Clockwise)</td>
<td>To rotate the file 90 degrees Anti-</td>
</tr>
<tr>
<td></td>
<td>clockwise.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zoom in</td>
<td>To zoom in the file.</td>
</tr>
<tr>
<td></td>
<td>(Photo only)</td>
</tr>
<tr>
<td>Zoom out</td>
<td>To zoom to the file.</td>
</tr>
<tr>
<td></td>
<td>(Photo only)</td>
</tr>
<tr>
<td>Move</td>
<td>To select view area in zoomed viewing.</td>
</tr>
<tr>
<td></td>
<td>(Photo only)</td>
</tr>
<tr>
<td>Dynamic</td>
<td>To select the video settings.</td>
</tr>
<tr>
<td>Graphic</td>
<td>(Video only)</td>
</tr>
<tr>
<td>Sports</td>
<td></td>
</tr>
<tr>
<td>Cinema</td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td></td>
</tr>
</tbody>
</table>
Playing the pictures

Select a file in the same manner in the file list view.

1. Press <▲▼◄►> to select the file you want to play.
   - : To play the selected file
   - ENTER : Selected the file.
   - EXIT : To return the media type select page.

2. Press <ENTER>
   The picture will be displayed on the full screen.

1. Operation bar
   Press <MENU> to display operation bar on the bottom of screen
   Then press the cursor buttons <◄►> to perform the following operations.
   - [PLAY/PAUSE] To play the image slideshow.
     To pause the playing image.
   - [Previous] To go to previous image.
   - [Next] To go to next image.
   - [STOP] To stop the playing image slideshow.

   - [Random On] Select to play images in the folder randomly.
   - [Random Off] Setting to [Music On], the photo and music files in the same folder are played at the same time.
   - [Interval] Select Slideshow time.
   - [Playlist] Show Playlist.
   - [Info.] Show the file information.
   - [Rotate] Rotate the image 90 degrees clockwise temporarily.
     - (Clockwise) Rotate the image 90 degrees Anti-clockwise temporarily.
   - [Zoom in] To zoom-in the image.
   - [Zoom out] To zoom-out the image.
   - [Move] Select view area in zoomed.

2. Information window
   Press <DISPLAY> to show the information window
Playing the music / video

1. Select the file you want to play in the same manner as “Playing the pictures”. (see page 49)
   ENTER: To play the selected file
   EXIT: To return the media type select page.

2. Press <ENTER>
   The video will be displayed on the full screen.

Note
- The music icon is displayed on the screen for music playback.

1. Operation bar
   Press <MENU> to display operation bar on the bottom of screen
   Then press the cursor buttons < < > > to perform the following operations.
   [PLAY/PAUSE] To play the music / video.
   To pause the playing image.

   [FB] To play the file fast backward.
   FF2X / FF4X / FF8X / FF16X

   [FF] To play the file fast forward.
   FF2X / FF4X / FF8X / FF16X

   [Previous] To go to previous the file. When playing video, press once to play from the beginning.

   [Next] To go to next file.

   [STOP] To stop the playing file.

   [Repeat all] Repeat all -
   All the files in the same folder are repeatedly played.

   [Repeat none] Repeat none -
   After starting playing the files selected in the menu, each file in the same folder is played once in order until the last one.

   [Repeat 1] Repeat 1 -
   The one file selected or checked in the menu is repeatedly played.

   [Random On] Select to play images in the folder randomly.

   [Random Off] Select to play images in the folder randomly.

   [Set A] Set A -
   Set the interval of the start point.

   [Set B] Set B - Set the interval of the end point.

   [None] Set B - Set the interval of the end point.

   [Playlist] Show Playlist.

   [Info.] Show the file information.

   [Dynamic] Select video settings.

   [Graphic] (Video only)

   [Sports]

   [Cinema]

   [Standard]

You can also adjust the file by using the navigation keys < < > > and the cursor buttons < < > > on the remote control. (see page 48)

2. Information window
   Press <DISPLAY> to show the information window
Using HDMI-CEC function

The HDMI-CEC function enables the remote control of this unit alone to operate the basics of HDMI-CEC compatible devices by the interlocking control between this unit and such devices. Also, this function enables the remote control (or main unit’s buttons) of a HDMI-CEC compatible device alone to turn on/off this unit and switch input.

**Connection**

Connect the HDMI-CEC compatible device to HDMI 1 or HDMI 2 terminal.

1. HDMI cable (commercially available)
2. DVD Recorder / DVD Player, Blu-ray Recorder / Blu-ray Player

**Setting**

1. Make the setting on the connected device (HDMI-CEC compatible device) so this function can operate.
2. Set [HDMI-CEC control] to [On]. (see page 40)
3. Turn on all the devices, and turn this unit off and on. Then check if images can be seen correctly with HDMI1 or HDMI2 input.
Preset Signals

This unit can display the video signals shown in the table below.

- The contents of HDMI signal in the Plug and Play-supported signal column are as follows.
  1: 4K/60p, 2: 4K/30p

<table>
<thead>
<tr>
<th>Corresponding signal</th>
<th>Resolution (Dot)</th>
<th>Scanning frequency</th>
<th>Dot clock frequency (MHz)</th>
<th>Format*2</th>
<th>Plug and Play-supported signal*±</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Horizontal (kHz)</td>
<td>Vertical (Hz)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>480/60i</td>
<td>720 (1 440) x 480</td>
<td>15.73</td>
<td>59.94</td>
<td>27.00</td>
<td>H</td>
</tr>
<tr>
<td>576/50i</td>
<td>720 (1 440) x 576</td>
<td>15.63</td>
<td>50.00</td>
<td>27.00</td>
<td>H</td>
</tr>
<tr>
<td>480/60p</td>
<td>720 x 480</td>
<td>31.47</td>
<td>59.94</td>
<td>27.00</td>
<td>H</td>
</tr>
<tr>
<td>576/50p</td>
<td>720 x 576</td>
<td>31.25</td>
<td>50.00</td>
<td>27.00</td>
<td>H</td>
</tr>
<tr>
<td>720/60p</td>
<td>1 280 x 720</td>
<td>45.00</td>
<td>60.00</td>
<td>74.25</td>
<td>H</td>
</tr>
<tr>
<td>720/50p</td>
<td>1 280 x 720</td>
<td>37.50</td>
<td>50.00</td>
<td>74.25</td>
<td>H</td>
</tr>
<tr>
<td>1080/60i</td>
<td>1 920 x 1 080i</td>
<td>33.75</td>
<td>60.00</td>
<td>74.25</td>
<td>H</td>
</tr>
<tr>
<td>1080/50i</td>
<td>1 920 x 1 080i</td>
<td>28.13</td>
<td>50.00</td>
<td>74.25</td>
<td>H</td>
</tr>
<tr>
<td>1080/24p</td>
<td>1 920 x 1 080</td>
<td>27.00</td>
<td>24.00</td>
<td>74.25</td>
<td>H</td>
</tr>
<tr>
<td>1080/25p</td>
<td>1 920 x 1 080</td>
<td>28.13</td>
<td>25.00</td>
<td>74.25</td>
<td>H</td>
</tr>
<tr>
<td>1080/30p</td>
<td>1 920 x 1 080</td>
<td>33.75</td>
<td>30.00</td>
<td>74.25</td>
<td>H</td>
</tr>
<tr>
<td>1080/60p</td>
<td>1 920 x 1 080</td>
<td>67.50</td>
<td>60.00</td>
<td>148.50</td>
<td>H</td>
</tr>
<tr>
<td>1080/50p</td>
<td>1 920 x 1 080</td>
<td>56.25</td>
<td>50.00</td>
<td>148.50</td>
<td>H</td>
</tr>
<tr>
<td>3840 x 2160/24p</td>
<td>3 840 x 2 160</td>
<td>54.00</td>
<td>24.00</td>
<td>297.00</td>
<td>H</td>
</tr>
<tr>
<td>3840 x 2160/25p</td>
<td>3 840 x 2 160</td>
<td>56.25</td>
<td>25.00</td>
<td>297.00</td>
<td>H</td>
</tr>
<tr>
<td>3840 x 2160/30p</td>
<td>3 840 x 2 160</td>
<td>67.50</td>
<td>30.00</td>
<td>297.00</td>
<td>H</td>
</tr>
<tr>
<td>3840 x 2160/60p</td>
<td>3 840 x 2 160</td>
<td>135.00</td>
<td>60.00</td>
<td>594.00</td>
<td>H</td>
</tr>
<tr>
<td>3840 x 2160/50p</td>
<td>3 840 x 2 160</td>
<td>112.50</td>
<td>50.00</td>
<td>594.00</td>
<td>H</td>
</tr>
<tr>
<td>4096 x 2160/24p</td>
<td>4 096 x 2 160</td>
<td>54.00</td>
<td>24.00</td>
<td>297.00</td>
<td>H</td>
</tr>
<tr>
<td>4096 x 2160/25p</td>
<td>4 096 x 2 160</td>
<td>56.25</td>
<td>25.00</td>
<td>297.00</td>
<td>H</td>
</tr>
<tr>
<td>4096 x 2160/30p</td>
<td>4 096 x 2 160</td>
<td>67.50</td>
<td>30.00</td>
<td>297.00</td>
<td>H</td>
</tr>
<tr>
<td>4096 x 2160/60p</td>
<td>4 096 x 2 160</td>
<td>135.00</td>
<td>60.00</td>
<td>594.00</td>
<td>H</td>
</tr>
<tr>
<td>4096 x 2160/50p</td>
<td>4 096 x 2 160</td>
<td>112.50</td>
<td>50.00</td>
<td>594.00</td>
<td>H</td>
</tr>
<tr>
<td>640 x 480/60</td>
<td>640 x 480</td>
<td>31.47</td>
<td>59.94</td>
<td>25.18</td>
<td>R/H</td>
</tr>
<tr>
<td>800 x 600/60</td>
<td>800 x 600</td>
<td>37.88</td>
<td>60.32</td>
<td>40.00</td>
<td>R/H</td>
</tr>
<tr>
<td>1024 x 768/60</td>
<td>1 024 x 768</td>
<td>48.36</td>
<td>60.00</td>
<td>65.00</td>
<td>R/H</td>
</tr>
<tr>
<td>1280 x 720/60</td>
<td>1 280 x 720</td>
<td>45.00</td>
<td>60.00</td>
<td>74.25</td>
<td>R/H</td>
</tr>
<tr>
<td>1280 x 800/60</td>
<td>1 280 x 800</td>
<td>49.70</td>
<td>59.81</td>
<td>83.50</td>
<td>R/H</td>
</tr>
<tr>
<td>1280 x 960/60</td>
<td>1 280 x 960</td>
<td>60.00</td>
<td>60.00</td>
<td>108.00</td>
<td>R/H</td>
</tr>
<tr>
<td>1280 x 1024/60</td>
<td>1 280 x 1 024</td>
<td>63.98</td>
<td>60.02</td>
<td>108.00</td>
<td>R/H</td>
</tr>
<tr>
<td>1280 x 1024/75</td>
<td>1 280 x 1 024</td>
<td>79.98</td>
<td>75.02</td>
<td>135.00</td>
<td>R/H</td>
</tr>
<tr>
<td>1360 x 768/60</td>
<td>1 360 x 768</td>
<td>47.71</td>
<td>60.02</td>
<td>85.50</td>
<td>H</td>
</tr>
<tr>
<td>1400 x 1050/60</td>
<td>1 400 x 1 050</td>
<td>65.32</td>
<td>59.98</td>
<td>121.75</td>
<td>H</td>
</tr>
<tr>
<td>1440 x 900/60</td>
<td>1 440 x 900</td>
<td>55.94</td>
<td>59.89</td>
<td>106.50</td>
<td>R/H</td>
</tr>
<tr>
<td>1600 x 900/60</td>
<td>1 600 x 900</td>
<td>60.00</td>
<td>60.00</td>
<td>108.00</td>
<td>R/H</td>
</tr>
<tr>
<td>1600 x 1200/60</td>
<td>1 600 x 1 200</td>
<td>75.00</td>
<td>60.00</td>
<td>162.00</td>
<td>R/H</td>
</tr>
<tr>
<td>1680 x 1050/60</td>
<td>1 680 x 1 050</td>
<td>65.29</td>
<td>59.95</td>
<td>146.25</td>
<td>R/H</td>
</tr>
<tr>
<td>1920 x 1080/60</td>
<td>1 920 x 1 080</td>
<td>67.50</td>
<td>60.00</td>
<td>148.50</td>
<td>R/H</td>
</tr>
<tr>
<td>1920 x 1200/60</td>
<td>1 920 x 1 200</td>
<td>74.04</td>
<td>59.95</td>
<td>154.00</td>
<td>R/H</td>
</tr>
<tr>
<td>720 x 400/70</td>
<td>720 x 400</td>
<td>31.50</td>
<td>70.00</td>
<td>28.30</td>
<td>R/H</td>
</tr>
</tbody>
</table>

*1 HDMI signal (Plug and Play-supported)
*2 V.S. scan"
*1: Pixel-Repetition signal (dot clock frequency 27.0 MHz) only

*2: Signals to represent formats are as follows.
   R: D-sub RGB (PC IN)
   H: HDMI (HDMI 1, HDMI 2)

*3: Based on VESA CVT-RB (Reduced Blanking) standard

*4: Signals with ○ in the Plug and Play-supported signal column are the ones written in EDID (Extended Display Identification Data) of this unit.
   For signals without ○ in the Plug and Play-supported signal column, resolutions may not be selected on the PC side even if this unit supports those signals.

**Note**
- An auto detected signal format may be differently displayed from the actual input signal.
- [ i ] shown after the number of dots of resolution means the interlace signal.
### Troubleshooting

Before you call for service, determine the symptoms and make a few simple checks as shown below.

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>Sound</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture</td>
<td>Sound</td>
<td>Electrical Appliances</td>
</tr>
<tr>
<td>Interference</td>
<td>Noisy Sound</td>
<td>Cars / Motorcycles</td>
</tr>
<tr>
<td>Fluorescent light</td>
<td>(Check whether the mute function has been activated on the remote control.) Make sure the volume is not set to minimum.</td>
<td></td>
</tr>
<tr>
<td>Normal Picture</td>
<td>No Sound</td>
<td>Not plugged into AC outlet</td>
</tr>
<tr>
<td>No Picture</td>
<td>No Sound</td>
<td>Not switched on</td>
</tr>
<tr>
<td>No Colour</td>
<td>Normal Sound</td>
<td>Picture and Brightness/Volume setting</td>
</tr>
<tr>
<td>A display error such as &quot;no picture&quot; occurs, or remote control operation is suddenly disabled.</td>
<td>Load noises from outside may be interfering with normal operation. Turn off the power and turn it on after waiting at least 5 seconds, and then check the operation.</td>
<td></td>
</tr>
<tr>
<td>The screen turns off automatically.</td>
<td>Check the settings of [No signal power off] may be set to [Enable]. (see page 41)</td>
<td></td>
</tr>
<tr>
<td>No remote control operations can be performed.</td>
<td>Are the batteries inserted with polarity (+,-) aligned? (see page 13)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Are the batteries exhausted? (see page 24)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check whether the option other than [Unlocked] is selected in [RC control lock]. (see page 42)</td>
<td></td>
</tr>
<tr>
<td>Unstable video</td>
<td>The signal may be incompatible. Try the automatic screen adjustment when PC is in use.</td>
<td></td>
</tr>
<tr>
<td>There are areas at the top and bottom of the screen where picture is not displayed.</td>
<td>When using a video software program (such as a cinema size program) with a screen wider than one in the 16:9 mode, blank areas separate from the images are formed at the top and bottom of the screen.</td>
<td></td>
</tr>
<tr>
<td>Parts of the unit become hot.</td>
<td>Even when the temperature of parts of the front, top and rear panels has risen, these temperature rises will not pose any problems in terms of performance or quality.</td>
<td></td>
</tr>
<tr>
<td>The video from the HDMI input terminal is abnormal.</td>
<td>Check the HDMI cable support 4K, and whether compliant of HDMI standard.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the input signal compatible with this TV. (see page 52 - 53)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>To set [EDID select] to [4K/30p] when the connected device does not support 4K.</td>
<td></td>
</tr>
<tr>
<td>The video from D-Sub input terminal is abnormal.</td>
<td>Check the PC setting correct.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Check the input signal compatible with this TV. (see page 52 - 53)</td>
<td></td>
</tr>
</tbody>
</table>
### Symptoms Check

**The Serial commands is uncontrollable.**
- Check that [SERIAL IN/LAN select] is selected [SERIAL IN]. (see page 37)
- Check whether the connection has been made properly. (see page 20)

**The LAN is uncontrollable.**
- Check that [SERIAL IN/LAN select] is selected [LAN]. (see page 37)
- Check that the connection has been made properly. (see page 44)
- Check that [LAN setup] is set properly. (see page 37)

### LCD TV panel

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>It takes a while for the picture to appear.</td>
<td>The unit digitally processes the various signals in order to reproduce esthetically pleasing images. As such, it sometimes takes a few moments for the picture to appear when the power has been turned on, when the input has been switched.</td>
</tr>
<tr>
<td>The edges of the images flicker.</td>
<td>Due to the characteristics of the system used to drive the liquid crystal panel, the edges may appear to flicker in the fast-moving parts of the images: This is normal and not indicative of malfunctioning.</td>
</tr>
<tr>
<td>There may be always-lighting dots or non-lighting dots appear on the screen.</td>
<td>This is a characteristic of liquid crystal panels and is not a problem.</td>
</tr>
<tr>
<td>Image retention appears</td>
<td>Image retention may occur. If you display a still picture for an extended period, the image might remain on the screen. However, it will disappear when a general moving picture is displayed for a while. This is not considered as malfunction.</td>
</tr>
</tbody>
</table>

This TV uses special image processing. Hence a slight time lag may occur between image and audio, depending on the type of input signal. However, this is not a malfunction.
## Specifications

### Model No.

<table>
<thead>
<tr>
<th>Model</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>86-inch</td>
<td>TH-86CQ1U</td>
</tr>
<tr>
<td>75-inch</td>
<td>TH-75CQ1U</td>
</tr>
<tr>
<td>65-inch</td>
<td>TH-65CQ1U</td>
</tr>
<tr>
<td>55-inch</td>
<td>TH-55CQ1U</td>
</tr>
<tr>
<td>50-inch</td>
<td>TH-50CQ1U</td>
</tr>
<tr>
<td>43-inch</td>
<td>TH-43CQ1U</td>
</tr>
</tbody>
</table>

### Power Consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>Power Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>86-inch</td>
<td>340 W</td>
</tr>
<tr>
<td>75-inch</td>
<td>274 W</td>
</tr>
<tr>
<td>65-inch</td>
<td>136 W</td>
</tr>
<tr>
<td>55-inch</td>
<td>128 W</td>
</tr>
<tr>
<td>50-inch</td>
<td>120 W</td>
</tr>
<tr>
<td>43-inch</td>
<td>106 W</td>
</tr>
</tbody>
</table>

**Stand-by condition**

0.5 W

### LCD TV panel

<table>
<thead>
<tr>
<th>Model</th>
<th>LCD TV panel</th>
</tr>
</thead>
<tbody>
<tr>
<td>86-inch</td>
<td>86-inch IPS panel (Edge LED backlight), 16:9 aspect ratio</td>
</tr>
<tr>
<td>75-inch</td>
<td>75-inch IPS panel (Direct LED backlight), 16:9 aspect ratio</td>
</tr>
<tr>
<td>65-inch</td>
<td>65-inch VA panel (Direct LED backlight), 16:9 aspect ratio</td>
</tr>
<tr>
<td>55-inch</td>
<td>55-inch VA panel (Direct LED backlight), 16:9 aspect ratio</td>
</tr>
<tr>
<td>50-inch</td>
<td>50-inch VA panel (Direct LED backlight), 16:9 aspect ratio</td>
</tr>
<tr>
<td>43-inch</td>
<td>43-inch VA panel (Direct LED backlight), 16:9 aspect ratio</td>
</tr>
</tbody>
</table>

### Screen size

<table>
<thead>
<tr>
<th>Model</th>
<th>Screen size</th>
</tr>
</thead>
<tbody>
<tr>
<td>86-inch</td>
<td>1 895.0 mm (W) × 1 065.9 mm (H) × 2 174.2 mm (diagonal) / 74.60” (W) × 41.96” (H) × 85.60” (diagonal)</td>
</tr>
<tr>
<td>75-inch</td>
<td>1 649.6 mm (W) × 927.9 mm (H) × 1 892.7 mm (diagonal) / 64.94” (W) × 36.53” (H) × 74.51” (diagonal)</td>
</tr>
<tr>
<td>65-inch</td>
<td>1 428.4 mm (W) × 803.5 mm (H) × 1 638.9 mm (diagonal) / 56.23” (W) × 31.63” (H) × 64.52” (diagonal)</td>
</tr>
<tr>
<td>55-inch</td>
<td>1 209.6 mm (W) × 680.4 mm (H) × 1 387.8 mm (diagonal) / 47.62” (W) × 26.78” (H) × 54.63” (diagonal)</td>
</tr>
<tr>
<td>50-inch</td>
<td>1 095.8 mm (W) × 616.4 mm (H) × 1 257.3 mm (diagonal) / 43.14” (W) × 24.26” (H) × 49.50” (diagonal)</td>
</tr>
<tr>
<td>43-inch</td>
<td>941.1 mm (W) × 529.4 mm (H) × 1 079.8 mm (diagonal) / 37.05” (W) × 20.84” (H) × 42.51” (diagonal)</td>
</tr>
</tbody>
</table>

### No. of pixels

8 294 400
(3 840 (Horizontal) × 2 160 (Vertical))

### Dimensions (W × H × D)

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (W × H × D)</th>
</tr>
</thead>
<tbody>
<tr>
<td>86-inch</td>
<td>1 929 mm × 1 103 mm (excluding Remote Control Sensor: 1 100 mm) × 80 mm / 75.92” × 43.41” (excluding Remote Control Sensor: 43.28”) × 3.13”</td>
</tr>
<tr>
<td>75-inch</td>
<td>1 684 mm × 969 mm (excluding Remote Control Sensor: 966 mm) × 94 mm / 66.30” × 38.14” (excluding Remote Control Sensor: 38.01”) × 3.70”</td>
</tr>
<tr>
<td>65-inch</td>
<td>1 463 mm × 847 mm (excluding Remote Control Sensor: 843 mm) × 97 mm / 57.57” × 33.32” (excluding Remote Control Sensor: 33.17”) × 3.81”</td>
</tr>
<tr>
<td>55-inch</td>
<td>1 240 mm × 718 mm (excluding Remote Control Sensor: 713 mm) × 80 mm / 48.79” × 28.25” (excluding Remote Control Sensor: 28.05”) × 3.12”</td>
</tr>
<tr>
<td>50-inch</td>
<td>1 124 mm × 653 mm (excluding Remote Control Sensor: 647 mm) × 77 mm / 44.24” × 25.70” (excluding Remote Control Sensor: 25.47”) × 3.04”</td>
</tr>
<tr>
<td>43-inch</td>
<td>969 mm × 566 mm (excluding Remote Control Sensor: 560 mm) × 77 mm / 38.12” × 22.26” (excluding Remote Control Sensor: 22.03”) × 3.03”</td>
</tr>
</tbody>
</table>
Mass

86-inch model
Approx. 50.0 kg / 111 lbs net

75-inch model
Approx. 34.0 kg / 75 lbs net

65-inch model
Approx. 24.0 kg / 53 lbs net

55-inch model
Approx. 15.0 kg / 34 lbs net

50-inch model
Approx. 13.0 kg / 29 lbs net

43-inch model
Approx. 9.0 kg / 20 lbs net

Power source
110 - 127 V ～, 50/60 Hz

Operating condition

Temperature
0 °C – 40 °C (32 °F – 104 °F)*1

Humidity
20 % – 80 % (no condensation)

Storing condition

Temperature
-20 °C – 60 °C (-4 °F – 140 °F)

Humidity
20 % – 80 % (no condensation)

Connection terminals

HDMI 1

HDMI 2
TYPE A Connector*2 × 2
Audio signal:
Linear PCM (sampling frequencies: 48 kHz, 44.1 kHz, 32 kHz)

AUDIO IN
Stereo mini jack (M3) × 1, 0.5 Vrms

PC IN
Mini D-sub 15 Pin ( Compatible with DDC2B ) × 1

AUDIO OUT
RCA jack, 0.5 Vrms
Output: Variable (~∞ – 0 dB)
(1 kHz 0 dB input, 10 kΩ load)

SERIAL IN
External Control Terminal
D-sub 9 Pin × 1:
RS-232C compatible

Sound

Speakers
132 mm × 25 mm × 1 / φ 70 mm × 1 × 2 pieces

Audio Output
20 W [10 W + 10 W] (10 % THD)

Remote Control Transmitter

Power source
DC 3 V (battery (AAA type) × 2)

Operating range
Approx. 7 m (22.9 ft)
(when operated directly in front of remote control sensor)

Mass
Approx. 91 g / 3.21 oz (including batteries)

Dimensions (W × H × D)
48 mm × 190 mm × 27 mm / 1.89” × 7.48” × 1.06”

*1: Environmental temperature to use this unit at high altitudes (1 400 m (4 593 ft) and higher and below 2 800 m (9 186 ft) above sea level): 0 °C to 35 °C (32 °F to 95 °F)

*2: VIERA LINK is not supported.

Note
- Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.
Notice (U.S.A. only)
Disposal may be regulated in your community due to environmental considerations. For disposal or recycling information, please visit Panasonic website:
http://www.panasonic.com/environmental
or call 1-888-769-0149.

Customer’s Record
The model number and serial number of this product may be found on its rear panel. You should note this serial number in the space provided below and retain this book, plus your purchase receipt, as a permanent record of your purchase to aid in identification in the event of theft or loss, and for Warranty Service purposes.

Model Number

Serial Number

For TH-86CQ1U, TH-75CQ1U, TH-65CQ1U, TH-55CQ1U, TH-50CQ1U, TH-43CQ1U

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