Operating Instructions
Display Operations
Interactive Plasma Display

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

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

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 http://panasonic.net

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WARNING: To reduce the risk of electric shock, do not remove cover or back. No user-serviceable parts inside. Refer servicing to qualified service personnel.

The lightning flash with arrowhead within a triangle is intended to tell the user that parts inside the product are a risk of electric shock to persons. The exclamation point within a triangle is intended to tell the user that important operating and servicing instructions are in the papers with the appliance.

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.)

WARNING: 1) To prevent electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

2) 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.
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.

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.

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

IMPORTANT INFORMATION
If a display is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:
• Using cabinets or stands recommended by the manufacturer of the display.
• Only using furniture that can safely support the display.
• Ensuring the display is not overhanging the edge of the supporting furniture.
• Not placing the display on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the display to a suitable support.
• Not standing the displays on cloth or other materials placed between the display and supporting furniture.
• Educating children about the dangers of climbing on furniture to reach the display or its controls.

Trademark Credits
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• SVGA, XGA, SXGA and UXGA are registered trademarks of the Video Electronics Standard Association.
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Note:
Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display.
Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode.
WARNING

Setup

This Plasma Display is for use only with the following optional accessories. Use with any other type of optional accessories may cause instability which could result in the possibility of injury.

(All of the following accessories are manufactured by Panasonic Corporation.)

- Pedestal .............................................................. TY-ST85P12 (for TH-85PB1W),
  TY-ST103PF9 (for TH-103PB1W)
- Mobile stand for Display ........................................ TY-ST85PB1 (for TH-85PB1W)
- Floor stand ......................................................... TY-ST85PF12 (for TH-85PB1W)
- Wall-hanging bracket (vertical) ............................ TY-WK85PV12 (for TH-85PB1W),
  TY-WK103PV9 (for TH-103PB1W)
- Ceiling-hanging bracket ....................................... TY-CE85PS12 (for TH-85PB1W),
  TY-CE103PS10 (for TH-103PB1W)
- BNC Dual Video Terminal Board ............................ TY-FB9BD
- HD-SDI Terminal Board ........................................ TY-FB9HD
- HD-SDI Terminal Board with audio ....................... TY-FB10HD
- Dual Link HD-SDI Terminal Board ....................... TY-FB11DHD
- Dual HDMI Terminal Board ................................. TY-FB10HMD
- DMB-T PAL Tuner Board ...................................... TY-FB12DTH*
- DVB-T Tuner Board ............................................. TY-FB11DTA*
- DVI-D Terminal Board ......................................... TY-FB11DD
- AV Terminal Box ................................................ TY-TB10AV
- Electronic Pen kit for Interactive Plasma Display .... TY-TPEN1PBW / TY-TPEN1PBU*
- Remote Pointer kit for Interactive Plasma Display ..... TY-TPEN1RMW / TY-TPEN1RMU*
- Wireless Module ............................................... ET-WM200E / ET-WM200U*

*1 Only for Hong Kong.
*2 Only for Australia.
*3 The model numbers of these optional accessories differ according to destination.

Always be sure to ask a qualified technician to carry out set-up.

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 Plasma Display on sloped or unstable surfaces, and ensure that the Plasma Display does not hang over the edge of the base.

- The Plasma Display may fall off or tip over.

Do not place any objects on top of the Plasma Display.

- If water is spills onto the Plasma Display or foreign objects get inside it, a short-circuit may occur which could result in fire or electric shock. If any foreign objects get inside the Plasma Display, please consult your local Panasonic dealer.

Transport only in upright position!

- Transporting the unit with its display panel facing upright or downward may cause damage to the internal circuitry.

Ventilation should not be impeded by covering the ventilation openings with items such as newspapers, table cloths and curtains.

For sufficient ventilation;

(TH-85PB1W)

If using the pedestal (optional accessory), leave a space of 10 cm or more at the top, left and right, and 15 cm or more at the rear, and also keep the space between the bottom of the display and the floor surface.

If using some other setting-up method, follow the manual of it. (If there is no specific indication of installation dimension in the installation manual, leave a space of 10 cm or more at the top, bottom, left and right, and 15 cm or more at the rear.)

(TH-103PB1W)

If using the pedestal (optional accessory), leave a space of 30 cm or more at the top, left and right, and 20 cm or more at the rear, and also keep the space between the bottom of the display and the floor surface.

If using some other setting-up method, follow the manual of it. (If there is no specific indication of installation dimension in the installation manual, leave a space of 30 cm or more at the top, bottom, left and right, and 20 cm or more at the rear.)
Safety Precautions

When installing the Plasma Display vertically;
Turn down the power switch for the downward direction when you install the Plasma Display vertically.
And set “Display orientation” to “Portrait” in Setup menu. (see page 43)

When using the Plasma Display

The Plasma Display is designed to operate on 200 - 240 V AC, 50/60 Hz.

Do not cover the ventilation holes.
  • Doing so may cause the Plasma Display to overheat, which can cause fire or damage to the Plasma Display.

Do not stick any foreign objects into the Plasma Display.
  • Do not insert any metal or flammable objects into the ventilations holes or drop them onto the Plasma Display, as
doing so can cause fire or electric shock.

Do not remove the cover or modify it in any way.
  • High voltages which can cause severe electric shocks are present inside the Plasma Display. For any inspection,
    adjustment and repair work, please contact your local Panasonic dealer.

Ensure that the mains plug is easily accessible.

An apparatus with CLASS I construction 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 fire or electric shocks.

Securely insert the power supply plug 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 handle the power supply plug with wet hands.
  • Doing so may cause electric shocks.

Do not do anything that may damage the power cable. When disconnecting the power cable, pull on the plug body, not the cable.
  • 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.

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

If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odour starts to come out
from the Plasma Display, immediately unplug the power supply plug from the wall outlet.
  • If you continue to use the Plasma Display in this condition, fire or electric shock could result. After checking that
    the smoke has stopped, contact your local Panasonic dealer so that the necessary repairs can be made. Repairing
    the Plasma Display yourself is extremely dangerous, and shall never be done.

If water or foreign objects get inside the Plasma Display, if the Plasma Display is dropped, or if the cabinet
becomes damages, disconnect the power supply plug immediately.
  • A short circuit may occur, which could cause fire. Contact your local Panasonic dealer for any repairs that need to be made.
Safety Precautions

⚠️ CAUTION

When using the Plasma Display

Do not bring your hands, face or objects close to the ventilation holes of the Plasma Display.

- Heated air comes out from the ventilation holes at the top of Plasma Display will be hot. Do not bring your hands or face, or objects which cannot withstand heat, close to this port, otherwise burns or deformation could result.

Be sure to disconnect all cables before moving the Plasma Display.

- If the Plasma Display 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.

Clean the power cable regularly to prevent it becoming dusty.

- If dust built up on the power cord plug, the resultant humidity can damage the insulation, which could result in fire.
  Pull the power cord plug out from the wall outlet and wipe the mains lead with a dry cloth.

Do not burn or breakup batteries.

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

This Plasma Display radiates infrared rays, therefore it may affect other infrared communication equipment.
Install your infrared sensor in a place away from direct or reflected light from your Plasma Display.

Cleaning and maintenance

The front of the display panel has been specially treated. Wipe the panel surface gently using only a cleaning cloth or a soft, lint-free cloth.

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in pure water or water in which neutral detergent has been diluted 100 times, and then wipe it evenly with a dry cloth of the same type until the surface is dry.
- Do not scratch or hit the surface of the panel with fingernails or other hard objects, otherwise the surface may become damaged. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the surface may be adversely affected.

If the cabinet becomes dirty, wipe it with a soft, dry cloth.

- If the cabinet is particularly dirty, soak the cloth in water to which a small amount of neutral detergent has been added and then wring the cloth dry. Use this cloth to wipe the cabinet, and then wipe it dry with a dry cloth.
- Do not allow any detergent to come into direct contact with the surface of the Plasma Display. If water droplets get inside the unit, operating problems may result.
- Avoid contact with volatile substances such as insect sprays, solvents and thinner, otherwise the quality of the cabinet surface may be adversely affected or the coating may peel off. Furthermore, do not leave it for long periods in contact with articles made from rubber or PVC.
Accessories

Accessories Supply

Check that you have the accessories and items shown

Operating Instruction book

Display Operations
Network Operations

Remote Control Transmitter
N2QAYB000691

Batteries for the Remote Control Transmitter
(R6 Size × 2)

Power supply cord

Fixing band × 2
TMME203

TH-85PB1W
Clamper × 1
TMM15412-2

Use the clamper when connecting a LAN cable.
(refer to “Operating Instructions, Network Operations”)

Ferrite core × 2
J0KG00000014

Use the Ferrite cores to comply with the EMC standard.
(refer to “Operating Instructions, Network Operations”)

These accessories will be used by professional installers when they install the unit.

TH-85PB1W
Eyebolt cap × 1
Eyebolt × 1 (M12)
Blind sheet × 1
Allen wrench

TH-103PB1W
Eyebolt cap × 3
Blind sheet × 1
Allen wrench
Remote Control Batteries

Requires two R6 batteries.
1. Pull and hold the hook, then open the battery cover.
2. Insert batteries - note correct polarity (+ and -).
3. Replace the cover.

Helpful Hint:
For frequent remote control users, replace old batteries with Alkaline batteries for longer life.

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

Observe the following precaution:
1. Batteries shall always be replaced as a pair. Always use new batteries when replacing the old set.
2. Do not combine a used battery with a new one.
3. Do not mix battery types (example: “Zinc Carbon” with “Alkaline”).
4. Do not attempt to charge, short-circuit, disassemble, heat or burn used batteries.
5. Battery replacement is necessary when remote control acts sporadically or stops operating the Plasma Display set.
6. Do not burn or breakup batteries.
7. Batteries must not be exposed to excessive heat such as sunshine, fire or the like.
Connections

AC cord connection and fixing, cable fixing

Note:
Two fixing bands are supplied with this unit. In case of securing cables at three (four) positions, please purchase it separately.

– Cable fixing bands
Secure any excess cables with bands as required.

Note:
When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.

Pass the attached cable fixing band through the clip as shown in the figure.

To secure cables connected to Terminals, wrap the cable fixing band around them then pass the pointed end through the locking block, as shown in the figure. While ensuring there is sufficient slack in cables to minimize stress (especially in the power cord), firmly bind all cables with the supplied fixing band.

To tighten:
Pull

To loosen:
Push the catch

TH-85PB1W

TH-103PB1W
Video equipment connection

SLOT: Terminal board (optional accessories) insert slot (see page 4)
Note: The lower side slot is for terminal board with 2-slot width. The terminal board with 1-slot width does not function when installed in the lower side slot.

AV IN (VIDEO): Composite Video Input Terminal (see page 11)
COMPONENT/RGB IN: Component/RGB Video Input Terminal (see page 11)

SERIAL: Control the Plasma Display by connecting to PC. (see page 14)

AUDIO OUT: Connect to sound equipment. (see page 11)

DVI-D IN: DVI-D Input Terminal (see page 12)
PC IN: PC Input Terminal Connect to video terminal of PC or equipment with Y, Pb(Cb) and Pr(Cr) output. (see page 13)

AV IN (HDMI): HDMI Input Terminal (see page 12) Connect to video equipment such as VCR or DVD player.
WIRELESS MODULE, LAN: Refer to “Operating Instructions, Network Operations”.

COMPONENT/RGB IN
PC IN
DVI-D IN
AV IN (HDMI)
WIRELESS MODULE
LAN
Connections

AUDIO OUT Terminals connection

![Diagram of AUDIO OUT Terminals connection]

VIDEO and COMPONENT / RGB IN connection

Note:
Additional equipment, cables and adapter plugs shown are not supplied with this set.

![Diagram of VIDEO and COMPONENT / RGB IN connection]

Notes:
• Change the “Component/RGB-in select” setting in the “Setup” menu to “Component” (when Component signal connection) or “RGB” (when RGB signal connection). (see page 48)
• Signals input to COMPONENT/RGB IN terminals correspond to Sync on G or Sync on Y.
HDMI connection

[Pin assignments and signal names]

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal name</th>
<th>Pin No.</th>
<th>Signal name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>T.M.D.S Data2+</td>
<td>11</td>
<td>T.M.D.S Clock+</td>
</tr>
<tr>
<td>2</td>
<td>T.M.D.S Data2 Shield</td>
<td>12</td>
<td>T.M.D.S Clock-</td>
</tr>
<tr>
<td>3</td>
<td>T.M.D.S Data2-</td>
<td>13</td>
<td>CEC</td>
</tr>
<tr>
<td>4</td>
<td>T.M.D.S Data1+</td>
<td>14</td>
<td>Reserved (N.C. on device)</td>
</tr>
<tr>
<td>5</td>
<td>T.M.D.S Data1 Shield</td>
<td>15</td>
<td>SCL</td>
</tr>
<tr>
<td>6</td>
<td>T.M.D.S Data0+</td>
<td>16</td>
<td>SDA</td>
</tr>
<tr>
<td>7</td>
<td>T.M.D.S Data0 Shield</td>
<td>17</td>
<td>DDC/CES Ground</td>
</tr>
<tr>
<td>8</td>
<td>T.M.D.S Data0-</td>
<td>18</td>
<td>+5 V Power</td>
</tr>
<tr>
<td>9</td>
<td>T.M.D.S Data0 Shield</td>
<td>19</td>
<td>Hot Plug Detect</td>
</tr>
<tr>
<td>10</td>
<td>T.M.D.S Clock+</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

Note:
Additional equipment and HDMI cable shown are not supplied with this set.

DVI-D IN connection

Notes:
• Additional equipment and cables shown are not supplied with this set.
• Use the DVI-D cable complying with the DVI standard. Image deterioration may occur depending on the length or the quality of the cable.
Connect a cable which matches the audio output terminal on the computer.

Notes:
• With regard to the typical PC input signals that are described in the applicable input signals list (see page 61), adjustment values such as for the standard picture positions and sizes have already been stored in this unit. You can add up to eight PC input signal types that are not included in the list.
• Computer signals which can be input are those with a horizontal scanning frequency of 15 to 110 kHz and vertical scanning frequency of 48 to 120 Hz. (However, the image will not be displayed properly if the signals exceed 1,200 lines.)
• The display resolution is a maximum of $1,440 \times 1,080$ dots when the aspect mode is set to “4:3”, and $1,920 \times 1,080$ dots when the aspect mode is set to “16:9”. If the display resolution exceeds these maximums, it may not be possible to show fine detail with sufficient clarity.
• The PC input terminals are DDC2B-compatible. If the computer being connected is not DDC2B-compatible, you will need to make setting changes to the computer at the time of connection.
• Some PC models cannot be connected to the set.
• There is no need to use an adapter for computers with DOS/V compatible Mini D-sub 15P terminal.
• The computer shown in the illustration is for example purposes only.
• Additional equipment and cables shown are not supplied with this set.
• Do not set the horizontal and vertical scanning frequencies for PC signals which are above or below the specified frequency range.
• Component Input is possible with the pin 1, 2, 3 of the Mini D-sub 15P Connector.
• Change the “Component/RGB-in select” setting in the “Setup” menu to “Component” (when Component signal connection) or “RGB” (when RGB signal connection). (see page 48)

Signal Names for Mini D-sub 15P Connector

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Signal Name</th>
<th>Pin No.</th>
<th>Signal Name</th>
<th>Pin No.</th>
<th>Signal Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>R (Pr/Cr)</td>
<td>6</td>
<td>GND (Ground)</td>
<td>11</td>
<td>NC (not connected)</td>
</tr>
<tr>
<td>2</td>
<td>G (Y)</td>
<td>7</td>
<td>GND (Ground)</td>
<td>12</td>
<td>SDA</td>
</tr>
<tr>
<td>3</td>
<td>B (Ps/Cs)</td>
<td>8</td>
<td>GND (Ground)</td>
<td>13</td>
<td>HD/Sync</td>
</tr>
<tr>
<td>4</td>
<td>NC (not connected)</td>
<td>9</td>
<td>+5 V DC</td>
<td>14</td>
<td>VD</td>
</tr>
<tr>
<td>5</td>
<td>GND (Ground)</td>
<td>10</td>
<td>GND (Ground)</td>
<td>15</td>
<td>SCL</td>
</tr>
</tbody>
</table>

Pin Layout for PC Input Terminal
Connections

SERIAL Terminals connection

The SERIAL terminal is used when the Plasma Display is controlled by a computer.

Note: To use serial control for this unit, make sure to set the “Control I/F Select” in the “Network Setup” menu to “RS-232C”. (refer to “Operating Instructions, Network Operations”)

Notes:
- Use the RS-232C straight cable to connect the computer to the Plasma Display.
- The computer shown is for example purposes only.
- Additional equipment and cables shown are not supplied with this set.

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

The computer will require software which allows the sending and receiving of control data which satisfies the conditions given below. Use a computer application such as programming language software. Refer to the documentation for the computer application for details.

Communication parameters

<table>
<thead>
<tr>
<th>Signal level</th>
<th>RS-232C compliant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Synchronization method</td>
<td>Asynchronous</td>
</tr>
<tr>
<td>Baud rate</td>
<td>9600 bps</td>
</tr>
<tr>
<td>Parity</td>
<td>None</td>
</tr>
<tr>
<td>Character length</td>
<td>8 bits</td>
</tr>
<tr>
<td>Stop bit</td>
<td>1 bit</td>
</tr>
<tr>
<td>Flow control</td>
<td></td>
</tr>
</tbody>
</table>

Basic format for control data

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

Notes:
- 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.
- If an incorrect command is sent by mistake, this unit will send an “ER401” command back to the computer.
- S1A and S1B of Command IMS are available only when a dual input terminal board is attached.
- Consult your local Panasonic dealer for detail instructions on command usage.

Signal names for D-sub 9P connector

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>RXD</td>
</tr>
<tr>
<td>3</td>
<td>TXD</td>
</tr>
<tr>
<td>5</td>
<td>GND</td>
</tr>
<tr>
<td>4, 6</td>
<td>Non use</td>
</tr>
<tr>
<td>7, 8</td>
<td>(Shorted in this set)</td>
</tr>
<tr>
<td>1, 9</td>
<td>NC</td>
</tr>
</tbody>
</table>

These signal names are those of computer specifications.

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 00 - 63</td>
</tr>
<tr>
<td>AMT</td>
<td>0</td>
<td>Audio MUTE OFF</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>Audio MUTE ON</td>
</tr>
<tr>
<td>IMS</td>
<td>None</td>
<td>Input select (toggle)</td>
</tr>
<tr>
<td>SL1</td>
<td>SLOT input (SLOT INPUT)</td>
<td></td>
</tr>
<tr>
<td>S1A</td>
<td>SLOT input (SLOT INPUT A)</td>
<td></td>
</tr>
<tr>
<td>S1B</td>
<td>SLOT input (SLOT INPUT B)</td>
<td></td>
</tr>
<tr>
<td>VD1</td>
<td>VIDEO input (VIDEO)</td>
<td></td>
</tr>
<tr>
<td>YP1</td>
<td>COMPONENT/RGB IN input (COMPONENT)</td>
<td></td>
</tr>
<tr>
<td>HM1</td>
<td>HDMI input (HDMI)</td>
<td></td>
</tr>
<tr>
<td>DV1</td>
<td>DVI-D IN input (DVI)</td>
<td></td>
</tr>
<tr>
<td>PC1</td>
<td>PC IN input (PC)</td>
<td></td>
</tr>
<tr>
<td>NW1</td>
<td>Network input (NETWORK)</td>
<td></td>
</tr>
<tr>
<td>DAM</td>
<td>None</td>
<td>Screen mode select (toggle)</td>
</tr>
<tr>
<td>ZOOM</td>
<td></td>
<td>Zoom, Zoom1</td>
</tr>
<tr>
<td>FULL</td>
<td>16:9</td>
<td></td>
</tr>
<tr>
<td>JUST</td>
<td>Just, Just1 (For Video/SD/HD signal)</td>
<td></td>
</tr>
<tr>
<td>NORM</td>
<td>4:3, 4:3 (1)</td>
<td></td>
</tr>
<tr>
<td>ZOM2</td>
<td>Zoom2 (For Video/SD/HD signal)</td>
<td></td>
</tr>
<tr>
<td>ZOM3</td>
<td>Zoom3 (For Video/SD/HD signal)</td>
<td></td>
</tr>
<tr>
<td>SJST</td>
<td>Just2 (For HD signal)</td>
<td></td>
</tr>
<tr>
<td>SNOM</td>
<td>4:3 (2) (For HD signal)</td>
<td></td>
</tr>
<tr>
<td>SFUL</td>
<td>4:3 Full (For HD signal)</td>
<td></td>
</tr>
<tr>
<td>14:9</td>
<td>14:9 (For Video/SD/HD signal)</td>
<td></td>
</tr>
</tbody>
</table>

With the power off, this display responds to PON command only.
Connecting the AC cord plug to the Plasma Display.

Fix the AC cord plug securely to the Plasma Display with the clamper. (see page 9)

Connecting the plug to the Wall Outlet

Notes:
- Main plug types vary between countries. The power plug shown at right may, therefore, not be the type fitted to your set.
- When disconnecting the AC cord, be absolutely sure to disconnect the AC cord plug at the socket outlet first.

Press the Power switch on the Plasma Display to turn the set on: Power-On.

Power Indicator: Green

[Starting up the network]
It takes some time for the network to start up just after the power is turned on. During that time, “Network Setup” in the “Setup” menu is grayed out and cannot be set.

Press the button on the remote control to turn the Plasma Display off.

Power Indicator: Red (standby)

Press the button on the remote control to turn the Plasma Display on.

Power Indicator: Green

Turn the power to the Plasma Display off by pressing the $\textcircled{O}/\textcircled{I}$ switch on the unit, when the Plasma Display is on or in standby mode.

Note:
During operation of the power management function, the power indicator turns orange in the power off state.
When first switching on the unit

Following screen will be displayed when the unit is turned on for the first time. Select the items with the remote control. Unit buttons are invalid.

Note:
The screens are not displayed if a tuner board has been equipped when setting up. Also they will not be displayed from the next time the power is turned on after the settings are completed once. Make the settings in the following menus as necessary.
- OSD Language (see page 43)
- Day/Time Setup (see page 33)
- Display orientation (see page 43)

OSD Language

Day/Time Setup

Display orientation

1 Select the language.
2 Set.

1 Select “Day” or “Time”.
2 Setup “Day” or “Time”.

1 Select “Set”.
2 Set.

For vertical installation, select “Portrait”.
2 Set.

Power ON warning message

The following message may be displayed when turning the unit power ON:

No activity power off Precautions

If “No activity power off” in Setup menu is set to “Enable”, a warning message is displayed every time the power is turned ON. (see page 43)
This message display can be set with the following menu: Options menu
Power On Message (see page 54)
Selecting the input signal

Press to select the input signal to be played back from the equipment which has been connected to the Plasma Display.

Input signals will change as follows:

> PC → NETWORK → VIDEO → COMPONENT* → HDMI → DVI

PC: PC input terminal in PC IN.
NETWORK: Network input terminal in LAN or WIRELESS MODULE.
VIDEO: Video input terminal in AV IN (VIDEO).
COMPONENT*: Component or RGB input terminal in COMPONENT/RGB IN.
HDMI: HDMI input terminal in AV IN (HDMI).
DVI: DVI input terminal in DVI-D IN.
* “COMPONENT” may be displayed as “RGB” depending on the setting of Component/RGB-in select. (see page 48)

When an optional Terminal Board is installed:

> PC → NETWORK → SLOT INPUT → VIDEO → COMPONENT → HDMI → DVI

SLOT INPUT: Input terminal in Terminal Board

Note:
When a Terminal Board incompatible with the Plasma Display is installed, “Non-Compatible Function Board” is displayed.

When a Terminal Board with dual input terminals is installed:

> PC → NETWORK → SLOT INPUT A → SLOT INPUT B → VIDEO → COMPONENT → HDMI → DVI

SLOT INPUT A, SLOT INPUT B: Dual input terminal in Terminal Board.

Notes:
- Selecting is also possible by pressing the INPUT button on the unit.
- Outputs the sound as set in “Audio input select” in the Options menu. (see page 57)
- Select to match the signals from the source connected to the component/RGB input terminals. (see page 48)
- Image retention (image lag) may occur on the plasma display panel when a still picture is kept on the panel for an extended period. The function that darkens the screen slightly is activated to prevent image retention (see page 59), but this function is not the perfect solution to image retention.
**Basic Controls**

**Main Unit**

- **Brightness Sensor**
  Detects the brightness in the viewing environment.

- **Remote control sensor**

- **Power Indicator**
  The Power Indicator will light.
  - **Power-OFF** .... Indicator not illuminated (The unit will still consume some power as long as the power cord is still inserted into the wall outlet.)
  - **Standby** .... Red
  Orange (When “Slot power” is set to “On”. See page 54)
  Orange (Depending on the type of the function board installed, when the power is supplied to the slot)
  Orange (When “Control I/F Select” is set to “LAN” or “WEB Control” is set to “On”. Refer to “Operating Instructions, Network Operations”)
  - **Power-ON** ...... Green
  - **PC Power management (DPMS)** 
    Orange (With PC input signal. See page 40)
  - **DVI-D Power management** 
    Orange (With DVI input signal. See page 40)

- **Volume Adjustment**
  - **Volume Up “+” Down “–”**
  When the menu screen is displayed:
  “+”: press to move the cursor up
  “–”: press to move the cursor down
  (see page 22)

- **MENU Screen ON / OFF**
  Each time the MENU button is pressed, the menu screen will switch. (see page 22)

  - Normal Viewing 
  - Picture
  - Sound 
  - Pos. /Size 
  - Setup

- **INPUT button**
  (INPUT signal selection)
  (see page 17)
Basic Controls

Remote Control Transmitter

**ACTION button**
Press to make selections.

**ASPECT button**
Press to adjust the aspect. (see page 20)

**Standby (ON / OFF) button**
The Plasma Display must first be plugged into the wall outlet and turned on at the power switch (see page 15). Press this button to turn the Plasma Display On, from Standby mode. Press it again to turn the Plasma Display Off to Standby mode.

**POS./SIZE button**
(see page 23)

**PICTURE button**
(see page 26)

**Sound mute On / Off**
Press this button to mute the sound. Press again to reactivate sound. Sound is also reactivated when power is turned off or volume level is changed.

**N button**
(see page 25, 26, 27, 31)

**POSITION buttons**

**INPUT button**
Press to select Input signal sequentially. (see page 17)

**ECO MODE (ECO)**
Press to change the ECO MODE setup status. (see page 40)

**FUNCTION buttons (FUNCTION)**
(see page 42)

**OFF TIMER button**
The Plasma Display can be preset to switch to standby after a fixed period. The setting changes to 30 minutes, 60 minutes, 90 minutes and 0 minutes (off timer cancelled) each time the button is pressed.

- 30 min → 60 min → 90 min
- 0 min (Cancel)

When three minutes remain, “Off timer 3 min” will flash. The off timer is cancelled if a power interruption occurs.

**AUTO SETUP button**
Automatically adjusts the position/size of the screen. (see page 23)

**SET UP button**
(see page 32)

**SOUND button**
(see page 31)

**Volume Adjustment**
Press the Volume Up “+” or Down “-” button to increase or decrease the sound volume level.

**R button**
(see page 22)
Press the R button to return to previous menu screen.

**RECALL button**
Press the “RECALL” button to display the current system status.

1. Input label
2. Aspect mode (see page 20)
3. Audio input (see page 57)
4. Profile name (see page 30)
5. NANODRIFT Saver operating (see page 38)
6. Touch Pen mode On/Off
7. Off timer
8. The off timer indicator is displayed only when the off timer has been set.
9. Clock display (see page 54)
10. Digital Zoom (see page 21)
ASPECT Controls

The Plasma Display will allow you to enjoy viewing the picture at its maximum size, including wide screen cinema format picture.

Note:
Be aware that if you put the display in a public place for commercial purposes or a public showing and then use the aspect mode select function to shrink or expand the picture, you may be violating the copyright under copyright law. It is prohibited to show or alter the copyrighted materials of other people for commercial purposes without the prior permission of the copyright holder.

Press repeatedly to move through the aspect options:
For details about the aspect mode, please see “List of Aspect Modes” (page 60).

[from the unit]
The aspect mode changes each time the ENTER button is pressed.

For VIDEO (S VIDEO) signal input:

4:3 → Zoom1 → Zoom2 → Zoom3 → 16:9 → 14:9 → Just

For PC signal input: For SD signal input (525 (480) / 60i • 60p, 625 (575) / 50i • 50p):

4:3 → Zoom → 16:9 → 4:3 → Zoom1 → Zoom2 → Zoom3 → 16:9 → 14:9 → Just

For HD signal input [1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 1250 (1080) / 50i, 750 (720) / 60p • 50p]:

4:3 → 4:3 Full → Zoom1 → Zoom2 → Just ← 14:9 ← 16:9 ← Zoom3 ←

[For Touch Pen mode]
The aspect is fixed as “16:9” and you cannot switch.

Notes:
• The aspect mode is memorized separately for each input terminal.
• Do not allow the picture to be displayed in 4:3 mode for an extended period, as this can cause a permanent image retention to remain on the Plasma Display Panel.

All Aspect mode
Set “All Aspect” to “On” in Options menu to enable the extended aspect mode (page 54). When All Aspect mode, the aspect mode of pictures is switched as follows. For details about the aspect mode, please see “List of Aspect Modes”. (page 60)

For VIDEO (S VIDEO) signal input:

4:3 → Zoom1 → Zoom2 → Zoom3 → 16:9 → 14:9 → Just

For PC signal input: For SD signal input (525 (480) / 60i • 60p, 625 (575) / 50i • 50p):

4:3 → Zoom → 16:9 → 4:3 → Zoom1 → Zoom2 → Zoom3 → 16:9 → 14:9 → Just

For HD signal input [1125 (1080) / 60i • 50i • 60p • 50p • 24p • 25p • 30p • 24sF, 1250 (1080) / 50i, 750 (720) / 60p • 50p]:

4:3 Full → Zoom1 → Zoom2 → Zoom3 → 16:9 → 14:9 → Just1 → Just2 → 4:3 (1) → 4:3 (2)
Digital Zoom

This displays an enlargement of the designated part of the displayed image.

1 Display the operation guide.

   ZOOM

   Press to access Digital Zoom.
   The operation guide will be displayed.

During Digital Zoom, only the following buttons can be operated.

   [Remote control]

   OFF TIMER button
   VOL button
   MUTE button
   POSITION / ACTION button

   [Unit]

   VOL button

2 Select the area of the image to be enlarged.

   Press on the enlargement location to select.

   The cursor will move.

3 Select the magnification required for the enlarged display.

   Each time this is pressed, the magnification factor changes.
   This is shown in the image being displayed.

   ×1  ×2  ×3  ×4

4 Return to normal display (quit Digital Zoom).

   Press to exit from the Digital Zoom.

   Touch Pen mode during Digital Zoom
   The electronic pen cannot be used while the image is enlarged with Digital Zoom during Touch Pen mode.
   The electronic pen can be used when Digital Zoom is cancelled.

Notes:

- When power goes OFF (including “Off Timer” operation), Digital Zoom terminates.
- The Digital Zoom function cannot be selected while in the following operation state:
  When MULTI DISPLAY Setup is On (see page 44).
  When Portrait Setup is On (see page 46).
  When Screensaver (except for Negative image) is running (see page 35)
- While Digital Zoom is in operation, “Adjusting Pos./Size” cannot be used.
On-Screen Menu Displays

Remote Control

1 Display the menu screen.

Press to select.
(Example: Picture menu)

2 Select the item.

Select.

3 Set.

Set.

4 Exit the menu.

Press.

Press several times.

Press to return to the previous menu.

Menu display list

Note: Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.

Picture menu  

Setup menu  

Pos./Size menu  

Sound menu

see page 26-30

see page 23-25

see page 32-51
Adjusting Pos./Size

1. Press to display the Pos./Size menu.

2. Press to select the menu to adjust.

3. Press to adjust the menu.

4. Press to exit from adjust mode.

Notes:

• Adjustment details are memorized separately for different input signal formats (Adjustments for component signals are memorized for 525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 1125 (1080) / 60i · 60p · 50p · 24p · 25p · 30p · 24sF, 1250 (1080) / 50i, 750 (720) / 60p · 50p each, and RGB/PC/Digital signals are memorized for each frequency.)

• If a “Cue” or “Rew” signal from a VCR or DVD player is received, the picture position will shift up or down. This picture position movement cannot be controlled by the Picture Pos./Size function.

Auto Setup

When inputting a PC signal as an example, “H-Pos/V-Pos”, “H-Size/V-Size”, “Dot Clock” and “Clock Phase” are automatically corrected.

This setting is enabled under the following conditions:

• When inputting an analog signal (Component/PC):
  This setting is enabled if “Component/RGB-in select” (see page 48) in Setup menu is “RGB”.

• When inputting a digital signal (HDMI/DVI):
  A PC format signal enables this setting.

When the signal is not PC format, this setting is enabled only if “Over Scan” (see page 24) is “Off” or “1:1 Pixel Mode” (see page 25) is “On”. “H-Size/V-Size” is not automatically adjusted.

This setting will be invalid and will not work under the following conditions:

• When NETWORK input is selected.

• When VIDEO signal input

• During Multiple display, Portrait display or Digital Zoom.

• Aspect is set to “Just”

• “Display size” in the Options menu (see page 53) is set to “On”

Using Remote Control

When on the remote control is pressed, “Auto Setup” will be executed.

When Auto Setup does not work, “Invalid” is displayed.

Auto mode

When the “Auto Setup” is set to “Auto” in the Options menu (see page 54), automatic position adjustment starts:

• When the display power is turned ON.

• When the input signal is switched.
Adjusting Pos./Size

Notes:
• If the dot clock frequency of an analog signal is 162 MHz or higher, “Dot Clock” and “Clock Phase” cannot be automatically corrected.
• When digital signal input, Dot Clock and Clock Phase cannot be made.
• 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.
• Depending on the signal, out of alignment may occur after Auto Setup. Carry out fine tuning for the position/size as required.
• If Auto Setup cannot set properly for vertical frequency 60Hz XGA signal (1024×768@60Hz, 1280×768@60Hz, and 1366×768@60Hz), pre-selecting the individual signal in “XGA Mode” (see page 49) may results in correct Auto Setup.
• Auto Setup does not work well when a signal such as additional information is superimposed out of valid image period or intervals between synchronizing and image signals are short, or for image signal with tri-level synchronizing signal added.
• If Auto Setup cannot adjust correctly, select “Normalise” once and press ACTION (■), then adjust Pos./Size manually.

H-Pos Adjust the horizontal position.

V-Pos Adjust the vertical position.

H-Size Adjust the horizontal size.

V-Size Adjust the vertical size.

Dot Clock (During Component/PC input signal)
Periodic striped pattern interference (noise) may occur when a striped pattern is displayed. If this happens, adjust so that any such noise is minimized.

Clock Phase (During Component/PC input signal)
Eliminate the flickering and distortion.

Over scan Turn image over scan On/Off.
Configurable signals are as follows:
525i, 525p, 625i, 625p, 750/60p, 750/50p (Component Video, RGB, DVI, SDI, HDMI)

Notes:
• When “Off” is set, “H-Size” and “V-Size” cannot be adjusted.
• When the “Display size” is set to “On” in the Options menu, this setting will be invalid. (see page 53)
Clamp Position (During Component/PC input signal)
Adjusts the clamp position when black parts of the image have no detail due to underexposure or are tinged with green.

**Optimum value for Clamp Position adjustment**
When black parts have no detail due to underexposure (blackout)
→ Value that causes least blackout is the optimum.
When black parts are tinged with green
→ Value that cancels the greenishness without causing blackout is the optimum.

1:1 Pixel Mode
Adjusts the display size when 1125i, 1125p or 1250i signal is input.

**Notes:**
- Select On when you would like to replay 1920 × 1080 input signal.
- Select Off when flickering is shown around the image.
- H-Size and V-Size cannot be adjusted when On is selected.

1:1 Pixel Mode (2k1k)
(For 2k1k signals)
When the input signal is a 2k1k signal (2048 × 1080 / 24p, 2048 × 1080 / 24sF), the display size is adjusted as follows.

**Note:**
2k1k signals can only be received when the Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.

---

**Helpful Hint (Normalise)**
While the Pos./Size display is active, if either the N button on the remote control is pressed at any time or the ACTION button is pressed during “Normalise”, then all adjustment values are returned to the factory settings.
Picture Adjustments

1. Press to display the Picture menu.

2. Select to adjust each item.

   - Press to select the menu to adjust.
   - Select the desired level by looking at the picture behind the menu.

   Note:
   Menu that cannot be adjusted is grayout. Adjustable menu changes depending on signal, input and menu setting.

Press “<” or “>” button to switch between modes.

- Normal ➔ Dynamic ➔ Monitor ➔ Cinema

Normal
For viewing in standard (evening lighting) environments.
This menu selects the normal levels of Brightness and Contrast.

Dynamic
For viewing in brighter environments.
This menu selects higher than normal levels of Brightness and Contrast.

Cinema
For use in viewing tone-focused pictures with brightness reduced.

Monitor
For use when creating broadcast or movie content.
With this picture, even if the overall average picture level (APL) changes, the brightness of areas with the same signal level does not change.

Picture Mode during Touch Pen mode
“Picture Mode” is fixed to “Normal” during Touch Pen mode.

Notes:
- When “Monitor” is selected in Picture Mode, the following menu items cannot be set.
  - Extended life settings: Peak limit (see page 38)
  - MULTI DISPLAY Setup menu: Video Wall Uniformity (see page 45)
  - Portrait Setup menu: Video Wall Uniformity (see page 47)
- If you would like to change the picture and colour of the selected Picture menu to something else, adjust using the items in the Picture menu. (see next page)

Press “<” or “>” button to switch between modes.

- Normal (9300K) ➔ Cool (11500K) ➔ Warm (6500K)

Helpful Hint (Normalise Normalisation)

While the “Picture” menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION (■) button is pressed during “Normalise”, then all adjustment values are returned to the factory settings.
## Picture Adjustments

<table>
<thead>
<tr>
<th>Item</th>
<th>Effect</th>
<th>Adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contrast</td>
<td>Less</td>
<td>Selects the proper brightness and density for the room.</td>
</tr>
<tr>
<td>Brightness</td>
<td>Darker</td>
<td>Adjusts for easier viewing of dark pictures such as night scenes and black hair.</td>
</tr>
<tr>
<td>Colour</td>
<td>Less</td>
<td>Adjusts colour saturation.</td>
</tr>
<tr>
<td>Hue</td>
<td>Reddish</td>
<td>Adjusts for nice skin colour.</td>
</tr>
<tr>
<td>Sharpness</td>
<td>Less</td>
<td>Adjusts picture sharpness.</td>
</tr>
</tbody>
</table>

### Notes:
- You can change the level of each function (Contrast, Brightness, Colour, Hue, Sharpness) for each Picture Mode.
- The setting details for Normal, Dynamic, Cinema and Monitor respectively are memorized separately for each input terminal.
- In Contrast, there is not a noticeable change even when contrast is increased with a bright picture or reduced with a dark picture.

## Advanced settings

<table>
<thead>
<tr>
<th>Item</th>
<th>Effect</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black extension</td>
<td>Less</td>
<td>Adjusts the dark shades of the image in gradation.</td>
</tr>
<tr>
<td>Input level</td>
<td>Less</td>
<td>Adjustment of parts which are extremely bright and hard to see.</td>
</tr>
<tr>
<td>Gamma</td>
<td>Down</td>
<td>2.0 ←→ 2.2 ←→ 2.4 ←→ 2.6</td>
</tr>
<tr>
<td>W/B High R</td>
<td>Less</td>
<td>Adjusts the white balance for light red areas.</td>
</tr>
<tr>
<td>W/B High G</td>
<td>Less</td>
<td>Adjusts the white balance for light green areas.</td>
</tr>
<tr>
<td>W/B High B</td>
<td>Less</td>
<td>Adjusts the white balance for light blue areas.</td>
</tr>
<tr>
<td>W/B Low R</td>
<td>Less</td>
<td>Adjusts the white balance for dark red areas.</td>
</tr>
<tr>
<td>W/B Low G</td>
<td>Less</td>
<td>Adjusts the white balance for dark green areas.</td>
</tr>
<tr>
<td>W/B Low B</td>
<td>Less</td>
<td>Adjusts the white balance for dark blue areas.</td>
</tr>
</tbody>
</table>

### Notes:
- Carry out “W/B” adjustment as follows.
  1. Adjust the white balance of the bright sections using the “W/B High R”, “W/B High G” and “W/B High B” settings.
  2. Adjust the white balance of the dark sections using the “W/B Low R”, “W/B Low G” and “W/B Low B” settings.
  3. Repeat steps 1 and 2 to adjust.
  Steps 1 and 2 affect each other’s settings, so repeat each step in turn to make the adjustment.
- The adjustment values are memorized separately for each input terminal.
- The adjustment range values should be used as an adjustment reference.

---

### Helpful Hint (Normalise Normalisation)

On the remote control unit, while the “Advanced settings” menu is displayed, if either the N button is pressed at any time or the ACTION ( ) button is pressed during “Normalise”, then all adjustment values are returned to the factory settings.
Picture Profiles

Up to 8 combinations of picture adjustment values (in the Picture menu and Advanced settings) can be stored in the display memory as profiles and applied as needed, for a convenient way to enjoy your preferred picture settings.

Save profiles (page 29)
Load profiles (page 30)
Edit profiles (page 30)

Save profiles
Save the picture adjustment values in the MEMORY1 profile

Load the profile
Apply the MEMORY1 profile

Original picture
Custom picture
Saving profiles

Follow these steps to save picture adjustment values as profiles.

**Note:**
When the settings are locked in “Extended life settings”, profiles cannot be saved.

1. Specify the picture quality in the Picture menu and Advanced settings. (see page 26, 27)

2. In the Picture menu, select “Memory save”.

3. Select a profile name for saving the picture adjustment values.

4. Select “Ok”.

5. Enter a name for the profile. 

   **[Entering profile names]**
   Profile names can be up to 40 characters. To enter text, select characters in the on-screen keyboard. Edit the default profile name in the text box as desired.

   **Example: Specifying “MY PICTURE”**

   ① Select “All delete”.

   All text is deleted. To delete individual characters, select “Delete”.

   ② Select “M”.

   Repeat this process to enter the next character.

   ③ Select “Y”.

   ④ Select “Space”.

   When you finished entering the profile name, select “Ok”.

   To cancel saving the profile, select “Cancel”.

---

Picture Profiles
Loading profiles

Load profiles and apply the picture adjustment values to the display as follows.

Notes:
- Loaded profiles are stored in memory according to the selected input terminal. (see page 17)
- When the settings are locked in “Extended life settings”, profiles cannot be loaded.

1 In the Picture menu, select “Memory load”.

2 Select the profile to load.

While in Touch Pen mode, a profile(s), whose “Picture Mode” is set to other than “Normal”, is grayed out and cannot be selected.

Editing profiles

Delete or rename profiles as follows.

<Deleting profiles>

1 In the Picture menu, select “Memory edit”.

2 Select “Memory delete”.

3 Select the profile to delete. To delete all profiles, select “All delete”.

4 Select “Ok”.

<Renaming profiles>

1 In the Picture menu, select “Memory edit”.

2 Select “Memory name change”.

3 Select the profile to rename.

4 Enter a name for the profile. Entering profile names ➔ page 29

5 When you finished entering the profile name, select “Ok”. To cancel renaming the profile, select “Cancel”.

Sound Adjustment

1. Press to display the Sound menu.

2. Select to adjust each item.
   - Press to select the menu to adjust.
   - Select the desired level by listening to the sound.

3. Press to exit from adjust mode.

### Sound Adjustment Details

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output Select</strong></td>
<td>Select the audio output.</td>
</tr>
<tr>
<td>SPEAKERS:</td>
<td>Internal speakers</td>
</tr>
<tr>
<td>AUDIO OUT:</td>
<td>AUDIO OUT terminal output</td>
</tr>
<tr>
<td><strong>Notes:</strong></td>
<td>If “AUDIO OUT” is selected, only “Balance” can be set. The other menus are grayed out and cannot be set.</td>
</tr>
<tr>
<td></td>
<td>The audio output options will be displayed when you adjust audio volume.</td>
</tr>
<tr>
<td></td>
<td>Audio volume and “Balance” settings are memorized separately for each audio output.</td>
</tr>
</tbody>
</table>

| **Sound Mode** | Normal: Emits the original sound.                                       |
|                | Dynamic: Accentuates sharp sound.                                       |
|                | Clear: Attenuates human voice.                                          |
| **Bass**       | Adjusts low pitch sounds.                                               |
| **Mid**        | Adjusts normal sounds.                                                   |
| **Treble**     | Adjusts high pitch sounds.                                              |
| **Balance**    | Adjusts left and right volumes.                                         |
| **Surround**   | Select On or Off.                                                       |

**Note:** Bass, Mid, Treble and Surround settings are memorized separately for each Sound Mode.

### Helpful Hint (N / Normalise Normalisation)

While the “Sound” menu is displayed, if either the N button on the remote control is pressed at any time or the ACTION (●) button is pressed during “Normalise”, then all adjustment values are returned to the factory settings.

### SDI Sound Output

This menu is available only when selecting a slot that any of the following terminal boards is installed: HD-SDI Terminal Board with audio (TY-FB10HD) or Dual Link HD-SDI Terminal Board (TY-FB11DHD)

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Left Channel</strong></td>
<td>Channel 1 to Channel 16</td>
</tr>
<tr>
<td>Selects left audio channel.</td>
<td></td>
</tr>
<tr>
<td><strong>Right Channel</strong></td>
<td>Channel 1 to Channel 16</td>
</tr>
<tr>
<td>Selects right audio channel.</td>
<td></td>
</tr>
<tr>
<td><strong>Sound Out</strong></td>
<td>On: Enables audio output.</td>
</tr>
<tr>
<td></td>
<td>Off: Disables audio output.</td>
</tr>
<tr>
<td></td>
<td>Off: 1-8ch ↔ 9-16ch</td>
</tr>
<tr>
<td></td>
<td>Sets audio channels to show in the audio level meter.</td>
</tr>
<tr>
<td></td>
<td>8 channels are displayed in the audio level meter; 4 channels each on both right and left sides of the display.</td>
</tr>
<tr>
<td></td>
<td>Only 1-8ch is displayed for impairments.</td>
</tr>
<tr>
<td><strong>Level Meter</strong></td>
<td>Off: Hides the audio level meter.</td>
</tr>
<tr>
<td></td>
<td>1-8ch: Displays the audio level meter (1-8ch)</td>
</tr>
<tr>
<td></td>
<td>9-16ch: Displays the audio level meter (9-16ch)</td>
</tr>
</tbody>
</table>
**Setup menu**

1. **SET UP**
   - Press to display the Setup menu.
   - Press to select the menu to adjust.

2. **SET UP**
   - Press to adjust the menu.

3. **SET UP**
   - Press to exit from adjust mode.

   Press R to return to the previous menu.

**Setup menu screen**

- Touch-Pen Settings
- Signal
- Screensaver
- Extended life settings
- ECO Mode settings
- Input label
- Function Button Settings
- Component/RGB-in select
- No activity power off
- Menu Display Duration
- OSD Brightness
- OSD Language

**Network Setup**

Set this to connect the Display to a computer via a network. For details of PJLink and Network, refer to “Operating Instructions, Network Operations”.
Day/Time Setup / On/Off Timer Setup

The timer can switch the Plasma Display On or Off.
Before attempting Timer Set, confirm the Time and adjust if necessary.
Then set POWER ON Time / POWER OFF Time.

1 Press to display the Setup menu.

2 Press to select On/Off Timer Setup or Day/Time Setup.

Day/Time Setup

1 Press to select Day or Time.
Press to setup Day or Time.
  ▲ button: Forward
  ▼ button: Back

Notes:
  • Pressing “▲” or “▼” button once changes Time 1 minute.
  • Pressing “▲” or “▼” button continuously changes Time by 15 minutes.

2 Press to select Set.
Press to store Day/Time Setup.

Notes:
  • Set cannot be selected unless Time is set.
  • Unless setting the present time other than “99:99”, “Day” and “Time” cannot be set.
  • The settings of “Day” and “Time” are reset when leaving the display turned off for
  approximately 7 days for the following reasons:
    Pressing ( ) switch of the unit to turn off the display.
    Disconnecting the AC cord.
    Interruption of power supply.

On/Off Timer Setup

1 Press to select
POWERTON Time / POWER OFF Time.
Press to setup
POWERTON Time / POWER OFF Time.
  ▲ button: Forward
  ▼ button: Back

Notes:
  • Pressing “▲” or “▼” button once changes POWER ON Time / POWER OFF Time
    1 minute.
  • Pressing “▲” or “▼” button continuously changes POWER ON Time / POWER OFF Time
    by 15 minutes.

2 Press to select POWER ON Function/POWER OFF Function.

Note: Timer function will not work unless “Time” is set.
Touch-Pen Settings

Set Touch Pen mode.

Select “Touch-Pen Settings” in “Setup” menu and press button.

When a Terminal Board with dual input terminals is installed, “SLOT INPUT” is displayed as “SLOT INPUT A” and “SLOT INPUT B”.

Touch-Pen Mode
Select an appropriate setting for the function of the electronic pen used.

Touch Only: Contact-type Touch Pen
Touch & Remote: Contact-type Touch Pen and remote pointer

SLOT INPUT – NETWORK
Set “On” or “Off” for each input terminal.
If you switch to the input terminal that is set to “On”, the mode becomes Touch Pen mode.
“Touch-Pen: On” is displayed in Touch Pen mode.

Notes:
• When the following signal input, “Touch-Pen Settings” are disabled:
  50i/50p/25p/24sf/24p signals and PC format signals with 50 Hz vertical frequency.
• The electronic pen cannot be used when VIDEO or COMPONENT input is selected.
• The electronic pen cannot be used during Digital Zoom. (see page 21)
• When using the electronic pen, adjust “Pos./Size” so that the screen of the computer can be correctly displayed. (see page 23)

Setting the Remote Control
You can also turn Touch Pen mode On/Off with the FUNCTION buttons on the remote control. (see page 42)

In Touch Pen mode, the menus and functions are restricted as follows.

| Pos./Size menu   | 1:1 Pixel Mode: On  
|                 | Over scan: Off      |
| Picture menu    | Picture Mode: Fixed to "Normal" (see page 26) |
| Setup menu      | FRAME CREATION: Off |
|                 | Picture Mode: Fixed to "Normal" (see page 37) |
|                 | MULTI DISPLAY Setup: Off |
|                 | Portrait Setup: Off |
| Options menu    | Display size: Unavailable |
|                 | Rotate: Unavailable |
| ASPECT Controls | 16:9 |
Screensaver (For preventing image retention)

Do not display a still picture, especially in 4:3 mode, for any length of time. If the display must remain on, a Screensaver should be used.

1. Select “Screensaver” in “Setup” menu and press button.

2. Function selection

Press to select Function.
Press to select the desired function.

- Negative image
- Scrolling bar only
- Overlay scrolling bar
- White screen
- Negative image: Negative image will be displayed on the screen.
- Scrolling bar only: A white bar will scroll from left to right. The image won't be displayed.
- Overlay scrolling bar: The brightness of the image will be decreased and a white bar will scroll on it.
- White screen: The whole screen will be white.

3. Mode selection

Press to select Mode.
Press to select each mode item.

- Off
- Interval: Operates when Periodic Time and Operating Time are setup and those times arrive.
- Time Designation: Operates when Start Time and Finish Time are setup and those times arrive.
- Standby after SCR Saver: Operates while Screensaver duration, and display enters standby mode.
- On: Operates when Start is selected and the ACTION (■) button is pressed.

4. Start setting

When the Mode is set to On, press to select Start.
Press to start Screensaver.

The menu screen will disappear and the Screensaver will be activated. To stop the Screensaver under On, press the R button or any buttons on the main unit.

Note: When the display is turned off, the Screensaver will be deactivated.
Screensaver (For preventing image retention)

Setup of Screensaver Time

After selecting Time Designation, Interval or Standby after SCR Saver, the relevant Time Setup will become available for selection and the Operating Time may be set. (Time cannot be set when “Mode” is “On” or “Off”.)

Notes:
- Pressing “<<” or “>>” button once changes the Time 1 minute. [However, switching occurs every 15 minutes when Periodic Time is selected.]
- Pressing “<<” or “>>” button continuously changes the Time by 15 minutes.
- “Screensaver duration” of the “Standby after SCR Saver” can be set from 0:00 to 23:59. When this is set to “0:00”, “Standby after SCR Saver” will not be activated.

Note: Timer function will not work unless “Time” is set.
Reduces screen image retention

Extended life settings

The following settings are setup to reduce image retention:

Select “Extended life settings” in “Setup” menu and press button.

Image Retention Reduction Menu

“Extended life settings” enables you to set the following 5 menus (Image Retention Reduction Menu) as recommended values or set them individually.

Picture Mode

Contrast

“Picture Mode” and “Contrast” are same as “Picture” menu items (see page 26). The settings of this menu will be reflected to the “Picture” menu.

Note:

In “Extended life settings”, “Picture Mode” and “Contrast” of the input with Touch Pen mode On cannot be changed. You can set “Contrast” in the “Picture” menu.

Side panel

Do not display a picture in 4:3 mode for an extended period, as this can cause an image retention to remain on the side panels on either side of the display field. To reduce the risk of such an image retention, illuminate the side panels.

This function may be applicable to the non-picture area.

Off: Darken both ends.
Low: Make it dark gray.
Mid: Make it gray.
High: Make it light gray.

Notes:
• To reduce the occurrence of image retention, set the Side panel to High.
• The side panel may flash (alternate black/white) depending on the picture being shown on the screen. Using Cinema mode will reduce such flashing.
Reduces screen image retention

NANODRIFT Saver
Moves the display position of the screen slightly to reduce image retention on the display panel.
**Low–High:** NANODRIFT Saver operates. The display position of the screen moves at set time intervals. You can set the screen movement range. Some of the screen may appear to be missing as a result of this operation. If you change the value, a mask is displayed in the range where the picture is missing as a result of position movement.

When “NANODRIFT” Image Retention Reduction is operating, “NANODRIFT” is displayed.

**Note:**
This function does not work in the following cases.
When “MULTI DISPLAY Setup” is set to “On”
When “PORTRAIT Setup” is set to “On”
When in digital zoom mode

Peak limit
**On:** Suppresses image contrast (peak brightness).
**Note:** When a still picture is viewed for an extended time, the screen may become slightly darker. (see page 59)

Express settings
Set the “Image Retention Reduction” menu to the recommended settings.
All menus will be locked.
- Picture Mode: Normal
- Contrast: Recommended setting for each model
- Side panel: High
- NANODRIFT Saver: High mid
- Peak limit: On

1 Select “Express settings”.

2 Select the input to apply the settings.

3 Select “Yes”.

---

**Note:**
This function does not work in the following cases.
When “MULTI DISPLAY Setup” is set to “On”
When “PORTRAIT Setup” is set to “On”
When in digital zoom mode

**Peak limit**
**On:** Suppresses image contrast (peak brightness).
**Note:** When a still picture is viewed for an extended time, the screen may become slightly darker. (see page 59)

**Express settings**
Set the “Image Retention Reduction” menu to the recommended settings.
All menus will be locked.
- Picture Mode: Normal
- Contrast: Recommended setting for each model
- Side panel: High
- NANODRIFT Saver: High mid
- Peak limit: On

1 Select “Express settings”.

2 Select the input to apply the settings.

3 Select “Yes”.

---

**Note:**
This function does not work in the following cases.
When “MULTI DISPLAY Setup” is set to “On”
When “PORTRAIT Setup” is set to “On”
When in digital zoom mode
Reduces screen image retention

Custom settings
Set the individual “Image Retention Reduction” menu.

1 Select “Custom settings”.

When a menu is locked, it is grayed out and cannot be set. “Picture Mode” and “Contrast” will no longer be able to set in the “Picture” menu, and they are labeled with icon to indicate their locked status. Also, “Normalise”, “Memory save” and “Memory load” are not available.

2 To set each menu to the recommended setting: Select “Recommended settings”.

Each menu will be set as same as the “Express settings”.

3 Set each menu.

4 To lock each menu setting: Set the “Lock settings” to “Lock”.

Reset
Reset the “Image Retention Reduction” menu to the factory settings. Each menu will be unlocked.

1 Select “Reset”.

2 Select the input to reset the settings.

3 Select “Yes”.

Touch Pen mode when a menu is locked
When a menu is locked, “Touch-Pen Settings” are disabled and Touch Pen mode cannot be set.
Select “ECO Mode settings” in “Setup” menu and press button.

ECO Mode settings

<table>
<thead>
<tr>
<th>ECO Mode</th>
<th>Custom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power save</td>
<td>Off</td>
</tr>
<tr>
<td>Standby save</td>
<td>On</td>
</tr>
<tr>
<td>PC Power management</td>
<td>Off</td>
</tr>
<tr>
<td>DVI-D Power management</td>
<td>Off</td>
</tr>
<tr>
<td>No signal power off</td>
<td>Disable</td>
</tr>
</tbody>
</table>

① select
② adjust

ECO Mode

Custom: The menu of power consumption reduction is individually set.
On: The following fixed values are set to the menu of power consumption reduction. Individual setting is not available.

Power save: On
Standby save: On
DVI-D Power management: On
No signal power off: Enable
PC Power management: On

Using Remote Control

When is pressed, the “ECO Mode” setting changes.

Custom settings

The menu of the power consumption reduction is individually set. This setting is enabled when “ECO Mode” is set to “Custom”.

Power save
When this function is turned On, luminous level of the Plasma Display is suppressed, so power consumption is reduced.
Sensor: The luminous level of the Plasma Display is automatically adjusted according to the viewing environment.
Note: In Touch Pen mode, the sensor function is disabled.

Standby save
When this function is turned On, power consumption of the microcomputer is reduced during power supply standby (see page 15, 18, 19), so standby power of the set is reduced.

PC Power management
When this function is set to On, it operates under the following conditions to turn the power on or off automatically.

When no pictures (HD/VD sync signals) are detected for 30 or so seconds during PC signal input:
→ Power is turned off (standby); the power indicator lights up orange.

When pictures (HD/VD sync signals) are subsequently detected:
→ Power is turned on; the power indicator lights up green.

Notes:
• This function operates only during PC signal input.
• This function is effective when “Sync” is set to “Auto”, “Component / RGB-in select” is set to “RGB” and during normal viewing.

DVI-D Power management
When this function is set to On, it operates under the following conditions to turn the power on or off automatically.

When no pictures (sync signal) are detected for 30 or so seconds during DVI signal input:
→ Power is turned off (standby); the power indicator lights up orange.

When pictures (sync signal) are subsequently detected:
→ Power is turned on; the power indicator lights up green.

Notes:
• This function operates only during DVI signal input.
• This function is invalid during input from DVI-D Terminal Board (TY-FB11DD).
• Depending on the type of terminal board equipped, this function may be invalid.

No signal power off
Equipment power supply is turned Off when there is no signal.
When this is set to “Enable”, the power supply of the unit goes Off 10 minutes after the input signals stop.
Customizing the Input labels

This function can change the label of the Input signal to be displayed. (see page 17)
Select “Input label” in “Setup” menu and press button.

Image input
[NETWORK]  NETWORK / (Skip)

(Skip): The INPUT button press will skip its input.

*1 “SLOT INPUT” is displayed when a Terminal Board is installed.
*2 “COMPONENT” may be displayed as “RGB” depending on the setting of “Component/RGB-in select”. (see page 48)

When a Terminal Board with dual input terminals is installed
“SLOT INPUT” is displayed as “SLOT INPUT A” and “SLOT INPUT B” and independent settings are available.

When a Terminal Board with fixed display (such as Tuner Board) is installed
Only fixed display and (Skip) are available as Input label of “SLOT INPUT”.
[SLOT INPUT]  fixed display / (Skip)
Function Button Settings

Set the functions that operate when FUNCTION is pressed.

Select “Function Button Settings” in “Setup” menu and press button.

• Function Button 1, Function Button 2
The following functions are set to the FUNCTION button.

ECO Mode settings / Signal / On/Off Timer Setup

The menu is displayed. (Example: ECO Mode settings)

Pressing the FUNCTION button clears the menu.

Scrolling bar
Activates the “Scrolling bar only” screensaver. After 15 minutes, the display enters standby mode.

INPUT (SLOT)* - INPUT (NETWORK)
Simply press FUNCTION to select the input.
* “INPUT (SLOT)” is displayed when an optional Terminal Board is installed.
When a Terminal Board with dual input terminals is installed, “INPUT (SLOT A)” and “INPUT (SLOT B)” are displayed.

Touch-Pen
Press and turn Touch Pen mode On/Off.

Network Setup
“Network Setup” menu is displayed.

Multi-Live
Switch to the Multi-Live mode when using the “Wireless Manager”.

Computer Search
The list of connectable computers on the network is displayed.

Note:
For the network function, refer to “Operating Instructions, Network Operations” and the instruction manual of “Wireless Manager” in use.

AV Mute
Mutes the audio and video. To exit this mode, press any button.

• Function Button Guide
The function display setting for the FUNCTION button is configured.

On: Press the FUNCTION button to display the function list of the button.

Off: The function list is not displayed.

Function 1: Touch-Pen 2: Scrolling bar
No activity power off

Disable ↔ Enable
When this function is set to "Enable", the power is turned off (standby) automatically when there is no operation of the Plasma Display for 4 hours.
Starting from 3 minutes before the turn off, the remaining time will be displayed.

When the power is turned off due to this function, a message "Last turn off due to 'No activity power off'." is displayed next time the power is turned on.

Note:
During the screensaver is running, this function is disabled.

Menu Display Duration / OSD Brightness

Set the display time and brightness of the on-screen menu display.
Menu Display Duration: 5 S - 30 S
OSD Brightness: 1 - 5

OSD Language

Select your preferred language.

- Selectable languages
  English(UK)
  Deutsch
  Français
  Italiano
  Español
  ENGLISH(U.S)
  中文........(Chinese)
  日本語.......(Japanese)
  Русский.......(Russian)

Display orientation

Sets the fan control, panel drive control, and the display style of on-screen menu for vertical installation.

Landscape
Fan control and panel drive control for horizontal installation.

Portrait
Fan control and panel drive control for vertical installation. On-screen menu will be rotated 90 degrees counterclockwise to be suitable for the setting.

Notes:
- If the display is installed vertically, the power switch should be located at the bottom.
- When you change this setting, fan control and panel drive control will be switched as the power is turned on next time.
Setup for MULTI DISPLAY

By lining up Plasma Displays in groups, for example, as illustrated below, an enlarged picture may be displayed across all screens. For this mode of operation, each plasma display has to be set up with a Display number to determine its location.

Note:
During Touch Pen mode, “MULTI DISPLAY Setup” becomes “Off” and this function cannot be used.

(Example)
group of 4 (2 × 2)  group of 9 (3 × 3)  group of 16 (4 × 4)  group of 25 (5 × 5)

How to Setup MULTI DISPLAY

1. Select “MULTI DISPLAY Setup” in “Setup” menu and press button.

2. Press to select the MULTI DISPLAY Setup.

Press to select “On” or “Off”.

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>MULTI DISPLAY Setup</td>
<td>Select “On” or “Off”.</td>
</tr>
<tr>
<td>Note:</td>
<td>If you set MULTI DISPLAY Setup to On, Portrait Setup will be unavailable.</td>
</tr>
<tr>
<td>Horizontal Scale</td>
<td>Select “× 1”, “× 2”, “× 3”, “× 4”, “× 5”.</td>
</tr>
<tr>
<td>Vertical Scale</td>
<td>Select “× 1”, “× 2”, “× 3”, “× 4”, “× 5”.</td>
</tr>
<tr>
<td>Seam hides video</td>
<td>Select “On” or “Off”. To hide joints between displays.</td>
</tr>
<tr>
<td></td>
<td>Suitable for moving image display.</td>
</tr>
<tr>
<td></td>
<td>To show joints between displays.</td>
</tr>
<tr>
<td></td>
<td>Suitable for still image display.</td>
</tr>
<tr>
<td></td>
<td>On</td>
</tr>
<tr>
<td></td>
<td>Off</td>
</tr>
<tr>
<td>Location</td>
<td>Select the required arrangement number. (A1-E5 : Refer to the following)</td>
</tr>
<tr>
<td>Display Number</td>
<td>(2 × 1) A1 A2 B1 B2 C1 C2</td>
</tr>
<tr>
<td></td>
<td>(2 × 3) A1 A2 A3 A4 B1 B2 B3 B4</td>
</tr>
<tr>
<td></td>
<td>(4 × 2) A1 A2 A3 A4 B1 B2 B3 B4</td>
</tr>
<tr>
<td></td>
<td>(4 × 4) A1 A2 A3 A4 A5 B1 B2 B3 B4 C1 C2 C3 C4</td>
</tr>
<tr>
<td></td>
<td>(5 × 5) A1 A2 A3 A4 A5 B1 B2 B3 B4 C1 C2 C3 C4 C5</td>
</tr>
</tbody>
</table>

MULTI DISPLAY Setup

- C1
- X 2
- C2
- A1
- C5
- C6
**Setup for MULTI DISPLAY**

<table>
<thead>
<tr>
<th>Item</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video Wall Uniformity</td>
<td>Reduces the peak of brightness for each display to enable as uniform display as possible. The brightness depends on each display’s setting. The brightness difference is minimized.</td>
</tr>
<tr>
<td></td>
<td><strong>Note:</strong> If you set Video Wall Uniformity to On, the following menus will be unavailable and these settings will be fixed to the initial values. Picture menu: Colour, Hue, Input level (Advanced settings)</td>
</tr>
</tbody>
</table>

**ID Remote Control Function**

You can set the remote control ID when you want to use this remote control on one of several different displays.

**Note:**
To operate this function, please purchase ID remote controller sold separately.
Object model: EUR7636070R

1. Switch to on the right side.
2. Press the button on the remote control.
3. Press one of - for the tens digit setting.
4. Press one of - for the units digit setting.

**Notes:**
- The numbers in 2, 3 and 4 should be set up quickly.
- Adjustable ID number range is 0 - 99.
- If a number button is pressed more than two times, the first two numbers become the ID number for the remote control.

**ID remote control button operation**

The operation is the same as normal remote control except for the button.

**ID Cancellation**

Press button on remote control. (This has the same effect as pressing the , , buttons at the same time.)

**Notes:**
- Set the Remote ID “On” to operate the ID remote control.
  If Remote ID is set to “On”, you can use the remote control without identical ID number during option menu display. (see page 53)
- The ID remote control cannot be used when ID select is set to anything other than 0, and the remote control ID is not the same as the ID select number (see page 53).
Divide an input image into 3 parts, and display one of them to a plasma display which is set vertically. The image will be enlarged 3 times and rotated 90-degree.

(Example)

Notes:
- During Touch Pen mode, “Portrait Setup” becomes “Off” and this function cannot be used.
- When using the Portrait function with displays set vertically, “Display orientation” in Setup menu has to be set to “Portrait” (see page 43).
- Turn down the power switch for the downward direction when you set Display vertically.

How to setup Portrait

1 Select “Portrait Setup” in “Setup” menu and press button.

2 Press to select the Portrait Setup.
Press to select “On” or “Off”.

Note:
If you set Portrait Setup to On, MULTI DISPLAY Setup will be unavailable.

3 Press to select Seam hides video.
Press to select “Off”, “On”.

To hide joints between displays. To show joints between displays.
On Off

Suitable for moving image display.
Suitable for still image display.
4 Viewing Area / Location

**Viewing Area:** Set a mode of image division for Portrait function.
**Location:** Set a location of image to be displayed for Portrait function.

Press to select Viewing Area or Location.
Press to select each functions.

**Notes:**
- For HD signal videos, the “Viewing Area” is set at “16:9”, and cannot be changed.
  HD signal: 1125(1080) / 60i • 50i • 60p • 50p • 24p • 25p  
  • 30p • 24sF, 750(720) / 60p • 50p, 1250(1080) / 50i
- When “Viewing Area” is “16:9”, the aspect mode is set to “16:9”.

**Location setting**

**When Portrait Setup is “On”:**
Display the image of the selected location.

**When Portrait Setup is “Off”:**
Represent an area of the selected Location at a normal brightness and darken the rest of it.

**Viewing Area and Location**

The mode of image division and the Location by setting of Viewing Area is as follows.

**Viewing Area : 16:9**

<table>
<thead>
<tr>
<th>Location 1</th>
<th>Location 2</th>
<th>Location 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undisplayed area (48 dots)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Viewing Area : 4:3**

<table>
<thead>
<tr>
<th>Location 1</th>
<th>Location 2</th>
<th>Location 3</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Suitable to display 16:9 images. 4:3 images extend transversely. Both right and left sides of the image are cut by 48 dots.

4:3 images are displayed without changing aspect ratio. Although the images of each Location overlap, you can adjust Pos./Size to display the image normally. (see page 23)

5 Video Wall Uniformity

Reduces the peak of brightness for each display to enable as uniform display as possible.

Press to select Video Wall Uniformity
Press to select “Off”, “On”.

The brightness depends on each display’s setting.

Off | On
---|---

The brightness difference is minimized.

**Note:**
If you set Video Wall Uniformity to On, the following menus will be unavailable and these settings will be fixed to the initial values.
Picture menu: Colour, Hue, Input level (Advanced settings)
Setup for Input Signals

Component / RGB-in select

Component $\leftarrow$ RGB

Select to match the signals from the source connected to the Component / RGB or PC input terminals.

Y, P_b, P_r signals $\leftrightarrow$ “Component”
RGB signals $\leftrightarrow$ “RGB”

Note:
Make setting of the selected input terminal (COMPONENT/RGB IN or PC IN).

YUV / RGB-in select

YUV $\leftarrow$ RGB

Select to match the signals from the source connected to the DVI input terminals.

YUV signals $\leftrightarrow$ “YUV”
RGB signals $\leftrightarrow$ “RGB”

Notes:
• Selection may not be possible, depending on which optional board is installed.
• Make setting of the selected input terminal (SLOT or DVI-D IN).
Setup for Input Signals

Signal menu

Notes:
• “Signal” setup menu displays a different setting condition for each input signal.
• Depending on the input signal type, an optional Terminal Board may be required.

Select “Signal” in “Setup” menu and press button.

For Video (S VIDEO)

- 3D Y/C Filter (NTSC)
  
  This menu is displayed when BNC Dual Video Terminal Board (TY-FB9BD) is installed to the unit.
  
  Set this menu when the moving image looks unnatural during Video (S Video) input signal.
  
  On → Off

  Note:
  When On, this setting only affects NTSC input signals.

- Colour system
  
  Set the colour system to match the input signal. When “Auto” is set, Colour system will be automatically selected from NTSC/PAL/SECAM/M.NTSC.
  
  To display PAL60 signal, select “Auto” or “PAL”.

  If the picture image becomes unstable:
  
  With the system set on Auto, under conditions of low level or noisy input signals the image may in rare cases become unstable. Should this occur, set the system to match the format of the input signal.

For Component

- Cinema reality
  
  When “On”, the display attempts to reproduce a more natural interpretation of sources such as movie pictures, which are recorded at 24 frames per second.
  
  If the picture is not stable, turn the setting to “Off”.

  On → Off

  Note:
  When On, this setting only affects the following signal input:
  • NTSC / PAL signal input during Video (S Video) input signal.
  • 525i(480i), 625i(575i), 1125(1080)/60i signal input during “Component” input signal.

For Digital

- XGA Mode
  
  This menu is displayed when the input signal is analog (Component/PC). This unit supports three types of XGA signals with 60Hz vertical frequency having different aspect ratios and sampling rates (1,024 × 768 @ 60Hz, 1,280 × 768 @ 60Hz and 1,366 × 768 @ 60Hz).

  Auto → 1024×768 → 1280×768 → 1366×768

  Auto: Automatically selected from 1024×768/1280×768/1366×768.
  
  Switch the setting to suit the input signal for better display depends on the angle of view or display resolution condition.

  Note:
  After making this setting, be sure to make each adjustment (such as “Auto Setup”) on the “Pos./Size” menu as necessary. (see page 23)
Setup for Input Signals

• **Sync**
  This function operates only during input from PC IN terminal.

  **Setting RGB sync signal**
  Confirm that the input is set to RGB input (this setting is valid only for RGB input signal).
  - **Auto**: The H and V sync or synchronized signal is automatically selected. If both input, it is selected the H and V sync.
  - **on G**: Uses a synchronized signal on the Video G signal, which is input from the G connector.

  **Setting Component sync signal**
  Confirm that the input is set to Component input (this setting is valid only for Component input signal).
  - **Auto**: The H and V sync or synchronized signal is automatically selected. If both input, it is selected the H and V sync.
  - **on Y**: Uses a synchronized signal on the Video Y signal, which is input from the Y connector.

  **Note:**
  Signals input to COMPONENT/RGB IN terminals correspond to Sync on G or Sync on Y.

• **SDI Through**
  Set the active through function of the Dual Link HD-SDI Terminal Board (TY-FB11DHD).
  - **On ↔ Off**
  - **On**: Enables active through.
  - **Off**: Disables active through.

  **Note:**
  Settings can only be performed for this menu when a slot mounted with a Dual Link HD-SDI Terminal Board (TY-FB11DHD) is selected.

• **FRAME CREATION**
  Automatically compensates the picture frame rate and removes juddering movements to make the images smooth.
  - **Off ↔ Mid ↔ Max**

  **Note:**
  Depending on the contents, images may be noisy. To prevent the noise, change the setting.

• **HDMI Range**
  Switches the dynamic range according to the input signal from HDMI terminal.
  - **Video(16-235) ↔ Full(0-255) ↔ Auto**
  - **Video(16-235)**: If the input signal is the video range, Example: HDMI terminal output for DVD player
  - **Full(0-255)**: If the input signal is full range, Example: HDMI terminal output for personal computer
  - **Auto**: Switches the dynamic range automatically between “Video(16-235)” and “Full(0-255)” according to the input signal.

  **Note:**
  This function can be set only for HDMI signal input.
Setup for Input Signals

• **Noise reduction**
  Sets the following three NR (Noise Reduction) functions together. P-NR, Mosquito NR, Block NR

  Press to select “Noise reduction”.

  Press to select “Off”, “Min”, “Mid”, “Max”, “Advanced”.

  ![Noise reduction control](image)

**Advanced NR**
Sets the three NR functions separately.

1. Press to select “Advanced”.

2. Press to enter Advanced NR.

   Press to select P-NR, Mosquito NR or Block NR.

   Press to select “Off”, “Min”, “Mid”, “Max”.

**P-NR**: Automatically reduces unwanted picture noise.
**Mosquito NR**: Reduces mosquito noise around subtitles on MPEG videos.
**Block NR**: Reduces block noise when playing MPEG videos.

**Note**: Noise reduction cannot be adjusted while a PC signal is being applied.

• **Input signal display**
Displays the frequency and the type of the current input signal.

This display is valid only for Component / RGB / PC and Digital input signal.

Display range:
- **Horizontal** 15 - 110 kHz
- **Vertical** 48 - 120 Hz

The dot clock frequency is displayed during DVI signal input.
### Options Adjustments

1. **Weekly Command Timer**
   - **Sets Weekly Command Timer. (see page 55)**

2. **Audio input select**
   - **Set up the sound when an image input is selected. (see page 57)**

3. **Input Search**
   - **Set auto input switching for when there is no signal. (see page 58)**

4. **Onscreen display**
   - **Adjusts the input signal when the unit is turned on.**
   - **On**: Displays all the following on screen.
     - Power on display
     - Input signal switch display
     - No signal display
     - Mute and the remaining time of off-timer after was pressed.
   - **Off**: Hides all the items above from view.

5. **Initial input**
   - **Press** button to adjust the volume when the unit is turned on.
   - **Off**
   - **On**

6. **Initial VOL level**
   - **Press** button to adjust your preferred volume.
   - **Notes:**
     - When "Maximum VOL level" is "On", the volume can only be adjusted between 0 and your maximum range.
     - You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Initial VOL level" is "On" and cursor is on the menu.

7. **Maximum VOL level**
   - **Press** button to adjust the maximum volume.
   - **Off**
   - **On**

### Notes:
- Only the adjusted signal is displayed. (see page 17)
- This menu is available only when "Input lock" is "Off".
- If the "Maximum VOL level" is set lower than the "Initial VOL level", the "Initial VOL level" automatically becomes the same as the "Maximum VOL level".
- You can hear the changed volume regardless of your volume setting before opening the options menu if you adjust the volume when "Maximum VOL level" is "On" and cursor is on the menu.
### Options Adjustments

<table>
<thead>
<tr>
<th>Item</th>
<th>Adjustments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input lock</td>
<td><strong>Off</strong> ↔ <strong>SLOT INPUT</strong> ↔ <strong>VIDEO</strong> ↔ <strong>COMPONENT</strong> ↔ <strong>HDMI</strong> ↔ <strong>DVI</strong> ↔ <strong>PC</strong> ↔ <strong>NETWORK</strong>&lt;br&gt;  &quot;SLOT INPUT&quot; is displayed when an optional Terminal Board is installed.&lt;br&gt;  When a Terminal Board with dual input terminals is installed, &quot;SLOT INPUT A&quot; and &quot;SLOT INPUT B&quot; are displayed.&lt;br&gt;  &quot;COMPONENT&quot; may be displayed as &quot;RGB&quot; depending on the setting of &quot;Component/RGB-in select&quot;.  (see page 48)&lt;br&gt;<strong>Notes:</strong>&lt;br&gt;  • Only the adjusted signal is displayed (see page 17).&lt;br&gt;  • Input switch can be used when this is set to &quot;Off&quot;.</td>
</tr>
<tr>
<td>Button lock</td>
<td><strong>Off</strong> ↔ <strong>MENU&amp;ENTER</strong> ↔ <strong>On</strong>&lt;br&gt;  <strong>Off:</strong> All the buttons on main unit can be used.&lt;br&gt;  <strong>MENU&amp;ENTER:</strong> Locks the <strong>MENU</strong> and <strong>ENTER</strong> buttons on main unit.&lt;br&gt;  <strong>On:</strong> Locks all the button on main unit.&lt;br&gt;  Sets Button lock with the unit buttons in the following procedure.&lt;br&gt;  <strong>Off:</strong> Press <strong>+</strong> four times → Press <strong>INPUT</strong> four times → Press <strong>-</strong> four times → Press <strong>MENU&amp;ENTER</strong>&lt;br&gt;  <strong>MENU&amp;ENTER:</strong> Press <strong>MENU</strong> four times → Press <strong>-</strong> four times → Press <strong>INPUT</strong> four times → Press <strong>MENU&amp;ENTER</strong>&lt;br&gt;  <strong>On:</strong> Press <strong>-</strong> four times → Press <strong>INPUT</strong> four times → Press <strong>+</strong> four times → Press <strong>MENU&amp;ENTER</strong></td>
</tr>
<tr>
<td>Remocon User level</td>
<td><strong>Off</strong> ↔ <strong>User1</strong> ↔ <strong>User2</strong> ↔ <strong>User3</strong>&lt;br&gt;  <strong>Off:</strong> You can use all of the buttons on the remote control.&lt;br&gt;  <strong>User1:</strong> You can only use <strong>0</strong>, <strong>1</strong>, <strong>2</strong>, <strong>3</strong>, <strong>4</strong> buttons on the remote control.&lt;br&gt;  <strong>User2:</strong> You can only use <strong>3</strong> button on the remote control.&lt;br&gt;  <strong>User3:</strong> Locks all the buttons on remote control.</td>
</tr>
<tr>
<td>Off-timer function</td>
<td><strong>Enable:</strong> Enables the &quot;Off-timer function&quot;.&lt;br&gt;  <strong>Disable:</strong> Disables the &quot;Off-timer function&quot;.&lt;br&gt;  <strong>Note:</strong> When &quot;Disable&quot; is set, the Off-timer is cancelled.</td>
</tr>
<tr>
<td>Initial Power Mode</td>
<td><strong>Normal</strong> ↔ <strong>Standby</strong> ↔ <strong>On</strong>&lt;br&gt;  Sets the power mode of the unit for when the power recovers from failure or after plugging off and in again.&lt;br&gt;  <strong>Normal:</strong> Power returns in as the same state as before the power interruption.&lt;br&gt;  <strong>Standby:</strong> Power returns in standby mode. (Power Indicator : red/orange)&lt;br&gt;  <strong>On:</strong> Power returns in power On. (Power Indicator : green)&lt;br&gt;  <strong>Note:</strong> When using multiple displays, &quot;Standby&quot; is preferred to be set in order to reduce a power load.</td>
</tr>
<tr>
<td>ID select</td>
<td>Sets panel ID number when panel is used in &quot;Remote ID&quot; or &quot;Serial ID&quot;.&lt;br&gt;  Set value range: 0 - 100 (Standard value: 0)</td>
</tr>
<tr>
<td>Remote ID</td>
<td>The setting of this menu is valid only when using ID remote control.&lt;br&gt;  <strong>Off:</strong> Disables ID remote control functions. You can use normal remote control operations.&lt;br&gt;  <strong>On:</strong> Enable ID remote control functions.&lt;br&gt;  <strong>Note:</strong> To use the ID remote control function, it is necessary to set each ID number of remote control and display unit. About the setting method, please refer to &quot;ID Remote Control Function&quot; (see page 45) and &quot;ID select&quot; (above-mentioned).</td>
</tr>
<tr>
<td>Serial ID</td>
<td>Sets the panel ID Control.&lt;br&gt;  <strong>Off:</strong> Disables external control by the ID.&lt;br&gt;  <strong>On:</strong> Enables the external control by the ID.</td>
</tr>
<tr>
<td>Display size</td>
<td>Adjusts the image display size on screen.&lt;br&gt;  <strong>Off:</strong> Sets the normal image display size on screen.&lt;br&gt;  <strong>On:</strong> Sets the image display size approximately 95 % of the normal image display.&lt;br&gt;  <strong>Notes:</strong>&lt;br&gt;  • This setting is valid only when the input signals are as follows;&lt;br&gt;    NTSC, PAL, SECAM, M.NTSC, PAL60, PAL-M, PAL-N (Video), NTSC, PAL60, PAL-M, PAL-N (Component Video, RGB, DVI, SDI, HDMI)&lt;br&gt;  • This setting is invalid when digital zoom, Multi display or Portrait display is selected.&lt;br&gt;  • When &quot;Display size&quot; is set to &quot;On&quot;, &quot;H-Pos&quot; and &quot;V-Pos&quot; in &quot;Pos./Size&quot; can be adjusted.&lt;br&gt;  • Refer to each board’s operating instruction for DVI, SDI, HDMI’s corresponding signals.</td>
</tr>
</tbody>
</table>
### Options Adjustments

<table>
<thead>
<tr>
<th>Item</th>
<th>Adjustments</th>
</tr>
</thead>
</table>
| **Studio W/B**       | **Off**: Nullify all the settings adjusted.  
|                      | **On**: Sets the colour temperature for TV studio.  
|                      | **Note**: Valid only when the “Warm” is set as “White balance” in Picture menu. |
| **Studio Gain**      | **Off**: Disables “Studio Gain”.  
|                      | **On**: Enables “Studio Gain”.  
|                      | **Note**: This setting is valid only when the input signals are as follows:  
|                      | Component Video, RGB (analog), SDI, HDMI |
| **Slot power**       | **Off**: Power is not transmitted to the slot power.  
|                      | **Auto**: Power is transmitted to the slot power only when main power is on.  
|                      | **On**: Power is transmitted to the slot power when main power is on or in the standby state.  
|                      | **Note**: In some cases, power is transmitted to the slot power when main power is on or in the standby state regardless of the slot power setting. |
| **Power On Screen Delay** | **Off**: The display will be turned on at the same time as the Power button is pressed.  
|                      | **1 to 30 (sec.)**: Set the power-on delay time (second).  
|                      | **Notes**:  
|                      | • During this function is working, the power indicator is blinking green.  
|                      | • This function also works when the power recovers from failure or after plugging off and in again the power cord.  
|                      | After you unplug and plug the power cord in while the unit is in standby mode and also the power is being supplied to a terminal board, the unit will start supplying the power to the board with time delay according to the setting.  
|                      | The power indicator lights up red first and it turns orange when the power starts being supplied to the board. |
| **Clock Display**    | **Off**: Not display the clock.  
|                      | **On**: Display the clock.  
|                      | The clock is displayed at the lower left of the screen when the Power button is pressed.  
|                      | **Note**: When “Day/Time Setup” is not set, the clock is not displayed even if “Clock Display” is “On”. (see page 33) |
| **All Aspect**       | **Off**: Default aspect mode  
|                      | **On**: All Aspect mode  
|                      | Aspect mode of each setting is as follows:  
|                      | (Example: HD signal)  
|                      | **Off**: 4:3—4:3 Full—Zoom1—Zoom2—Zoom3—16:9—14:9—Just  
|                      | **On**: 4:3 (1)—4:3 (2)—4:3 Full—Zoom1—Zoom2—Zoom3—16:9—14:9—Just1—Just2 |
| **Auto Setup**       | **Manual**: Automatic position adjustment starts when the Position button is pressed on the remote control or automatic position adjustment is executed from the Pos./Size menu.  
|                      | **Auto**: Other than remote control or menu operation, automatic position adjustment starts:  
|                      | When the display power is turned ON.  
|                      | When the input signal is switched. |
| **Rotate**           | **Off**: Does not rotate the image.  
|                      | **On**: Rotates the image 180 degrees. |
| **Advanced Motion Resolution** | Displays motion picture images at higher resolution.  
|                      | **Off** |
|                      | **Note**: Please set to “Off” if images look unnatural. |
| **Power On Message (No activity power off)** | Whether to show/hide No activity power off Precautions at the time of power ON is set.  
|                      | **On**: The warning precautions are shown at the time of power ON.  
|                      | **Off**: The warning precautions are not shown at the time of power ON.  
|                      | **Note**: This setting is enabled only if “No activity power off” is “Enable” (see page 43). |
Normalisation
When both main unit buttons and remote control are disabled due to the “Button lock”, “Remocon User level” or “Remote ID” adjustments, set all the values “Off” so that all the buttons are enabled again.
Press the ▼ button on main unit together with ▲ button on the remote control and hold for more than 5 seconds. The “Shipping” menu is displayed and the lock is released when it disappears.

Weekly Command Timer

You can set 7-day timer programming by setting time and command.

Note:
Before setting Weekly Command Timer, set Day/Time Setup. (see page 33)

1. Press to select Function.
   Press to select “On”.
   Note:
   • When Function is set to On, On/Off Timer Setup (see page 33) is unavailable and Interval / Time Designation in Mode of Screensaver (see page 35) cannot be selected.

2. Press to select a day.
   Press to select a program number.
   Note:
   • You can set the program from 1 to 7.
   --- indicates unset.

3. Press to select Program Edit.
   Press to show the Program Edit screen.

4. Press to select Program.
   Press to change the program numbers (1-7).
5 Press to select a command number.

Press to show the previous / next command pages (1-8) of the selected program.

Press to show the command setting screen.

---

Weekly Command Timer

<table>
<thead>
<tr>
<th>Program</th>
<th>Command</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>PON</td>
<td>08:30</td>
</tr>
<tr>
<td>02</td>
<td>IMS:SL1</td>
<td>---</td>
</tr>
<tr>
<td>03</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>04</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>05</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>06</td>
<td>DAM:ZOOM</td>
<td>12:00</td>
</tr>
<tr>
<td>07</td>
<td>AVL:10</td>
<td>12:12</td>
</tr>
<tr>
<td>08</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

Command (--- indicates unset)
Set time of timer(--:-- indicates unset)

---

6 Press to select Command No.
Press to select a command number.

7 Press to select Time / Command.
Press to set each item.

Time: Set the time to execute a command program.
Pressing " " or " " button once changes “Time” 1 minute.
Pressing " " or " " button continuously changes “Time” by 15 minutes.
Command: Select a command to execute at the set time. This unit has 64 commands to set. (see page 63)

Notes:
- Command is performed in order of execution time, regardless of the command number.
- If a command execution time overlaps with that of other commands, these commands are performed in number order.
- Pressing Time becomes --:-- and Command becomes ---.

Note: Press to return to the previous screen.
Audio input select

Set up the sound when an image input is selected.

When a Terminal Board with dual input terminals is installed
“SLOT INPUT” is displayed as “SLOT INPUT A” and “SLOT INPUT B” and independent settings are available. To set other image inputs, you can select “SLOT INPUT A” and “SLOT INPUT B”.

When Image input and Audio input differ from each other, the Audio input is displayed as below.

Notes:
• HDMI Audio is selectable only for HDMI Input.
• You cannot set audio of B for SLOT INPUT A, or audio of A for SLOT INPUT B.
• If a tuner board is equipped to SLOT, the audio of SLOT INPUT (tuner board) cannot be output with the image input other than SLOT INPUT.
Options Adjustments

Input Search

When a signal is not detected, another input with a signal is automatically selected.

Press ACTION (■) button

1. select
2. adjust

Input Search

**Off**: When there is no signal, the input is not switched automatically.

**All Inputs**: Searches all inputs and switches to an input with a signal.

Input search is executed in the following order.

(Example) When the current input is PC

PC ➔ NETWORK ➔ SLOT INPUT ➔ VIDEO ➔ COMPONENT ➔ HDMI ➔ DVI

**Priority**: Searches “Primary Input” and “Secondary Input” in order and switches to an input with a signal.

“Searching...” is displayed during the input search.

**Primary Input, Secondary Input**

Set the input to search when “Priority” is selected.

(NONE) ➔ SLOT INPUT* ➔ VIDEO ➔ COMPONENT ➔ HDMI ➔ DVI ➔ PC ➔ NETWORK

*“SLOT INPUT” is displayed when an optional Terminal Board is installed.

When a Terminal Board with dual input terminals is installed, “SLOT INPUT A” and “SLOT INPUT B” are displayed.

**Notes:**

- This menu is available only when “Input lock” is “Off”. (see page 53)
- If the input is changed by this function, the last input is selected when the power is turned on next time.
  If you wish to retain the original input when the power is turned on, set “Initial input” to the original input.
  (see page 52)
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>Checks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interference</td>
<td>Noisy Sound</td>
<td>Electrical Appliances&lt;br&gt;Cars / Motorcycles&lt;br&gt;Fluorescent light</td>
</tr>
<tr>
<td>Normal Picture</td>
<td>No Sound</td>
<td>Volume&lt;br&gt;(Check whether the mute function has been activated on the remote control.)&lt;br&gt;Check if speakers are connected properly.</td>
</tr>
<tr>
<td>No Picture</td>
<td>No Sound</td>
<td>Not plugged into AC outlet&lt;br&gt;Not switched on Picture and Brightness/Volume setting&lt;br&gt;(Check by pressing the power switch or stand-by button on the remote control.)</td>
</tr>
<tr>
<td>No Picture</td>
<td>Normal Sound</td>
<td>If a signal with a non-applicable colour system format, or frequency is input, only the input terminal indication is displayed.</td>
</tr>
<tr>
<td>No Colour</td>
<td>Normal Sound</td>
<td>Colour controls set at minimum level (see page 26, 27)&lt;br&gt;Colour system (see page 49)</td>
</tr>
<tr>
<td>No remote control operations can be performed.</td>
<td></td>
<td>Check whether the batteries have discharged completely and, if they have not, whether they were inserted properly.&lt;br&gt;Check whether the remote control sensor is exposed to an outdoor light or a strong fluorescent light.&lt;br&gt;Check whether the remote control designed specifically for use with the unit is being used. (The unit cannot be operated by any other remote control.)</td>
</tr>
<tr>
<td>A cracking sound is sometimes heard from the unit.</td>
<td></td>
<td>If there is nothing wrong with the picture or sound, this is the sound of the cabinet undergoing very slight contractions in response to changes in the room temperature. There are no adverse effects on the performance or other aspects.</td>
</tr>
<tr>
<td>The top or bottom of the picture on the screen is cut off when I use the zoom function.</td>
<td></td>
<td>Adjust the position of the picture on the screen.</td>
</tr>
<tr>
<td>Areas at the top and bottom of the screen where the image is missing appear when I use the zoom function.</td>
<td></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>
</tr>
<tr>
<td>I can hear sounds coming from inside the unit.</td>
<td></td>
<td>When the power is turned on, a sound of the display panel being driven may be heard: This is normal and not indicative of malfunctioning.</td>
</tr>
<tr>
<td>Parts of the unit become hot.</td>
<td></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>
</tr>
<tr>
<td>Power automatically turns off unexpectedly.</td>
<td></td>
<td>Check the settings of “PC Power management”, “DVI-D Power management”, “No signal power off” and “No activity power off” in the Setup menu. Any of them may be set to “On (Enable)”. (see page 40, 43)</td>
</tr>
<tr>
<td>Power indicator is blinking in red.</td>
<td></td>
<td>There is possibility of malfunction. Please contact an Authorized Service Center. This Plasma Display uses special image processing type of input signal. However, this is not a malfunction.</td>
</tr>
</tbody>
</table>

Plasma Display panel

<table>
<thead>
<tr>
<th>Symptoms</th>
<th>Check</th>
</tr>
</thead>
<tbody>
<tr>
<td>The screen darkens slightly when bright pictures with minimal movements are shown.</td>
<td>The screen will darken slightly when photos, still images of a computer or other pictures with minimal movements are shown for an extended period. This is done to reduce image retention on the screen and the shortening of the screen’s service life: It is normal and not indicative of malfunctioning.</td>
</tr>
<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, or 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>
</tr>
<tr>
<td>The edges of the images flicker.</td>
<td>Due to the characteristics of the system used to drive the 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>The brightness on both sides of images in the 4:3 mode changes.</td>
<td>When viewing the side panels at the “High” or “Mid” setting, the brightness on both sides may change depending on the kind of program shown: This is normal and not indicative of malfunctioning.</td>
</tr>
<tr>
<td>Some parts of the screen do not light up.</td>
<td>The plasma display panel is manufactured using an extremely high level of precision technology, however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a malfunction.</td>
</tr>
<tr>
<td>Image retention appears</td>
<td>Do not allow a still picture to be displayed for an extended period, as this can cause a permanent image retention to remain on the Plasma Display. Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode. The permanent image retention on the Plasma Display resulting from fixed image use is not an operating defect and as such is not covered by the Warranty. This product is not designed to display fixed images for extended periods of time.</td>
</tr>
<tr>
<td>Whirring sounds can be heard from the display unit.</td>
<td>The display unit is fitted with a cooling fan to dissipate heat generated during normal use. The whirring sound is caused by rotation of the fan and is not a malfunction.</td>
</tr>
</tbody>
</table>
## List of Aspect Modes

<table>
<thead>
<tr>
<th>Aspect mode</th>
<th>Picture</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>All Aspect: On</td>
<td><img src="image" alt="All Aspect: On" /></td>
<td>The display of the pictures fills the screen. In the case of SD signals, pictures with a 4:3 aspect ratio are enlarged horizontally, and displayed. This mode is suited to displaying anamorphic pictures with a 16:9 aspect ratio.</td>
</tr>
<tr>
<td>All Aspect: Off</td>
<td><img src="image" alt="All Aspect: Off" /></td>
<td></td>
</tr>
<tr>
<td>16:9</td>
<td><img src="image" alt="16:9" /></td>
<td>Letterbox pictures with a 14:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen vertically and is slightly smaller than the screen horizontally. The top and bottom edges of the pictures are cut off. Side panels are displayed at the left and right edges of the screen.</td>
</tr>
<tr>
<td>14:9</td>
<td><img src="image" alt="14:9" /></td>
<td>Pictures with a 4:3 aspect ratio are enlarged horizontally so that the picture distortion is minimized. The display of the areas around the left and right edges of the screen is slightly elongated.</td>
</tr>
<tr>
<td>Just</td>
<td><img src="image" alt="Just" /></td>
<td>The pictures with a 4:3 aspect ratio among the 16:9 aspect ratio signals are enlarged horizontally so that the picture distortion is minimized. The left and right edges of the pictures are cut off. The display of the areas around the left and right edges of the screen is slightly elongated.</td>
</tr>
<tr>
<td>Just1</td>
<td><img src="image" alt="Just1" /></td>
<td>Pictures with a 4:3 aspect ratio are displayed with their original aspect ratio. Side panels are displayed at the left and right edges of the screen.</td>
</tr>
<tr>
<td>Just2</td>
<td><img src="image" alt="Just2" /></td>
<td>The pictures with a 4:3 aspect ratio among the 16:9 aspect ratio signals are displayed with their original aspect ratio. The left and right edges of the pictures are masked with side panels.</td>
</tr>
<tr>
<td>4:3</td>
<td><img src="image" alt="4:3" /></td>
<td>The pictures with a 4:3 aspect ratio among the 16:9 aspect ratio signals are enlarged horizontally so that their display fills the screen. The left and right edges of the pictures are cut off.</td>
</tr>
<tr>
<td>4:3 (1)</td>
<td><img src="image" alt="4:3 (1)" /></td>
<td></td>
</tr>
<tr>
<td>4:3 (2)</td>
<td><img src="image" alt="4:3 (2)" /></td>
<td></td>
</tr>
<tr>
<td>4:3 Full</td>
<td><img src="image" alt="4:3 Full" /></td>
<td>Letterbox pictures with a 16:9 aspect ratio are enlarged vertically and horizontally so that their display fills the screen. The top and bottom edges of the pictures are cut off.</td>
</tr>
<tr>
<td>Zoom</td>
<td><img src="image" alt="Zoom" /></td>
<td>The letterbox pictures with a 2.35:1 aspect ratio among the 16:9 aspect ratio signals are enlarged vertically and horizontally so that their display fills 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>Zoom1</td>
<td><img src="image" alt="Zoom1" /></td>
<td>Letterbox pictures with a 2.35:1 aspect ratio are enlarged vertically and horizontally so that their display fills the screen vertically and is slightly larger than the screen horizontally. The top and bottom edges as well as the left and right edges of the pictures are cut off.</td>
</tr>
</tbody>
</table>
### Applicable Input Signals

<table>
<thead>
<tr>
<th>Signal name</th>
<th>Horizontal frequency (kHz)</th>
<th>Vertical frequency (Hz)</th>
<th>COMPONENT / RGB IN / PC IN (Dot clock (MHz))</th>
<th>DVI-D IN (Dot clock (MHz))</th>
<th>HDMI</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 525 (480) / 60i</td>
<td>15.73</td>
<td>59.94</td>
<td>* (13.5)</td>
<td>* (27.0)</td>
<td>*</td>
</tr>
<tr>
<td>2 525 (480) / 60p</td>
<td>31.47</td>
<td>59.94</td>
<td>* (27.0)</td>
<td>* (27.0)</td>
<td>*</td>
</tr>
<tr>
<td>3 625 (575) / 50i</td>
<td>15.63</td>
<td>50.00</td>
<td>* (13.5)</td>
<td>* (27.0)</td>
<td>*</td>
</tr>
<tr>
<td>4 625 (576) / 60i</td>
<td>15.63</td>
<td>50.00</td>
<td>* (27.0)</td>
<td>* (27.0)</td>
<td>*</td>
</tr>
<tr>
<td>5 625 (575) / 50p</td>
<td>31.25</td>
<td>50.00</td>
<td>* (27.0)</td>
<td>* (27.0)</td>
<td>*</td>
</tr>
<tr>
<td>6 625 (576) / 50p</td>
<td>31.25</td>
<td>50.00</td>
<td>* (27.0)</td>
<td>* (27.0)</td>
<td>*</td>
</tr>
<tr>
<td>7 750 (720) / 60p</td>
<td>45.00</td>
<td>60.00</td>
<td>* (74.25)</td>
<td>* (74.25)</td>
<td>*</td>
</tr>
<tr>
<td>8 750 (720) / 60i</td>
<td>37.50</td>
<td>50.00</td>
<td>* (74.25)</td>
<td>* (74.25)</td>
<td>*</td>
</tr>
<tr>
<td>9 1,125 (1,080) / 60p</td>
<td>67.50</td>
<td>60.00</td>
<td>* (148.5)</td>
<td>* (148.5)</td>
<td>*</td>
</tr>
<tr>
<td>10 1,125 (1,080) / 60i</td>
<td>33.75</td>
<td>50.00</td>
<td>* (148.5)</td>
<td>* (148.5)</td>
<td>*</td>
</tr>
<tr>
<td>11 1,125 (1,080) / 50p</td>
<td>56.26</td>
<td>50.00</td>
<td>* (74.25)</td>
<td>* (74.25)</td>
<td>*</td>
</tr>
<tr>
<td>12 1,125 (1,080) / 50i</td>
<td>28.13</td>
<td>50.00</td>
<td>* (74.25)</td>
<td>* (74.25)</td>
<td>*</td>
</tr>
<tr>
<td>13 1,125 (1,080) / 24sF</td>
<td>27.00</td>
<td>48.00</td>
<td>* (74.25)</td>
<td>* (74.25)</td>
<td>*</td>
</tr>
<tr>
<td>14 1,125 (1,080) / 30p</td>
<td>27.00</td>
<td>48.00</td>
<td>* (74.25)</td>
<td>* (74.25)</td>
<td>*</td>
</tr>
<tr>
<td>15 1,125 (1,080) / 25p</td>
<td>28.13</td>
<td>50.00</td>
<td>* (74.25)</td>
<td>* (74.25)</td>
<td>*</td>
</tr>
<tr>
<td>16 1,125 (1,080) / 24p</td>
<td>27.00</td>
<td>48.00</td>
<td>* (74.25)</td>
<td>* (74.25)</td>
<td>*</td>
</tr>
<tr>
<td>17 1,250 (1,080) / 50i</td>
<td>31.25</td>
<td>50.00</td>
<td>* (27.0)</td>
<td>* (27.0)</td>
<td>*</td>
</tr>
<tr>
<td>18 2,048 × 1,080 / 24sF</td>
<td>27.00</td>
<td>48.00</td>
<td>* (27.0)</td>
<td>* (27.0)</td>
<td>*</td>
</tr>
<tr>
<td>19 2,048 × 1,080 / 24p</td>
<td>27.00</td>
<td>48.00</td>
<td>* (27.0)</td>
<td>* (27.0)</td>
<td>*</td>
</tr>
<tr>
<td>20 640 × 480 @60 Hz</td>
<td>31.47</td>
<td>59.94</td>
<td>* (31.5)</td>
<td>* (31.5)</td>
<td>*</td>
</tr>
<tr>
<td>21 640 × 480 @72 Hz</td>
<td>37.86</td>
<td>72.81</td>
<td>* (31.5)</td>
<td>* (31.5)</td>
<td>*</td>
</tr>
<tr>
<td>22 640 × 480 @75 Hz</td>
<td>37.50</td>
<td>75.00</td>
<td>* (31.5)</td>
<td>* (31.5)</td>
<td>*</td>
</tr>
<tr>
<td>23 640 × 480 @85 Hz</td>
<td>43.27</td>
<td>85.01</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>24 800 × 600 @60 Hz</td>
<td>35.16</td>
<td>56.25</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>25 800 × 600 @72 Hz</td>
<td>48.08</td>
<td>72.19</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>26 800 × 600 @75 Hz</td>
<td>46.88</td>
<td>75.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>27 800 × 600 @85 Hz</td>
<td>53.67</td>
<td>85.06</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>28 852 × 480 @60 Hz</td>
<td>37.50</td>
<td>75.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>29 1,024 × 768 @50 Hz</td>
<td>39.55</td>
<td>50.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>30 1,024 × 768 @60 Hz</td>
<td>48.36</td>
<td>60.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>31 1,024 × 768 @70 Hz</td>
<td>56.48</td>
<td>70.07</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>32 1,024 × 768 @75 Hz</td>
<td>60.02</td>
<td>75.03</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>33 1,024 × 768 @80 Hz</td>
<td>66.67</td>
<td>80.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>34 1,024 × 768 @90 Hz</td>
<td>73.33</td>
<td>90.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>35 1,024 × 768 @100 Hz</td>
<td>80.00</td>
<td>100.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>36 1,024 × 768 @110 Hz</td>
<td>86.67</td>
<td>110.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>37 1,024 × 768 @120 Hz</td>
<td>93.33</td>
<td>120.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>38 1,024 × 768 @130 Hz</td>
<td>100.00</td>
<td>130.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>39 1,024 × 768 @140 Hz</td>
<td>106.67</td>
<td>140.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>40 1,024 × 768 @150 Hz</td>
<td>113.33</td>
<td>150.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>41 1,024 × 768 @160 Hz</td>
<td>120.00</td>
<td>160.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>42 1,024 × 768 @170 Hz</td>
<td>126.67</td>
<td>170.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>43 1,024 × 768 @180 Hz</td>
<td>133.33</td>
<td>180.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
<tr>
<td>44 1,024 × 768 @190 Hz</td>
<td>140.00</td>
<td>190.00</td>
<td>* (36.0)</td>
<td>* (36.0)</td>
<td>*</td>
</tr>
</tbody>
</table>

*Mark: Applicable input signal

*1: Based on SMPTE 274M standard.
*2: Based on SMPTE RP211 standard.
*3: Based on SMPTE 295M standard.
*4: The input signal is recognized as 1,125 (1,080) / 60p.
*5: When selected the RGB format and 525p signal input to the PC IN terminal, it is recognized as VGA 60Hz signal.
*6: When inputted VGA 60Hz format signal from the other than PC IN terminal, it is recognized as 525p signal.
*7: Based on SMPTE 292M and 372M standards. These signals can be received when the Dual Link HD-SDI Terminal Board (TY-FB11DHD) is installed.

**Note:** Signals without above specification may not be displayed properly.

### Note
- Based on SMPTE 274M standard.
- Based on SMPTE RP211 standard.
- Based on SMPTE 295M standard.
- The input signal is recognized as 1,125 (1,080) / 60p.
- When selected the RGB format and 525p signal input to the PC IN terminal, it is recognized as VGA 60Hz signal.
- When inputted VGA 60Hz format signal from the other than PC IN terminal, it is recognized as 525p signal.
### Shipping condition

This function allows you to reset the unit to the factory setting.

1. Press the MENU button till the Setup menu is displayed.
2. Press the Volume Up+" or Down"–" button to select "OSD Language".
3. Press and hold the ENTER button till the Shipping menu is displayed.
4. Press the Volume Up+" or Down"–" button to select "YES".
5. Press the ENTER button and wait for 10 sec.
6. Press the power switch (🏥/) on main unit to turn the power off.

---

**Applicable Input Signals**

<table>
<thead>
<tr>
<th>Video input (VIDEO)</th>
<th>Signal name</th>
<th>Horizontal frequency(kHz)</th>
<th>Vertical frequency(Hz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 NTSC</td>
<td>15.73</td>
<td>59.94</td>
<td></td>
</tr>
<tr>
<td>2 PAL</td>
<td>15.63</td>
<td>50.00</td>
<td></td>
</tr>
<tr>
<td>3 PAL60</td>
<td>15.73</td>
<td>59.94</td>
<td></td>
</tr>
<tr>
<td>4 SECAM</td>
<td>15.63</td>
<td>50.00</td>
<td></td>
</tr>
<tr>
<td>5 Modified NTSC</td>
<td>15.73</td>
<td>59.94</td>
<td></td>
</tr>
</tbody>
</table>
# Command list of Weekly Command Timer

<table>
<thead>
<tr>
<th>No.</th>
<th>Command</th>
<th>Control details</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>AAC:MENCLR</td>
<td>Audio Menu (Clear)</td>
</tr>
<tr>
<td>2</td>
<td>AAC:MENDYN</td>
<td>Audio Menu (Dynamic)</td>
</tr>
<tr>
<td>3</td>
<td>AAC:MENSTD</td>
<td>Audio Menu (Standard)</td>
</tr>
<tr>
<td>4</td>
<td>AAC:SURMON</td>
<td>Surround (ON)</td>
</tr>
<tr>
<td>5</td>
<td>AAC:SUROFF</td>
<td>Surround (OFF)</td>
</tr>
<tr>
<td>6</td>
<td>AMT:0</td>
<td>Audio Mute (OFF)</td>
</tr>
<tr>
<td>7</td>
<td>AMT:1</td>
<td>Audio Mute (ON)</td>
</tr>
<tr>
<td>8</td>
<td>AVL:00</td>
<td>Audio Volume (00)</td>
</tr>
<tr>
<td>9</td>
<td>AVL:10</td>
<td>Audio Volume (10)</td>
</tr>
<tr>
<td>10</td>
<td>AVL:20</td>
<td>Audio Volume (20)</td>
</tr>
<tr>
<td>11</td>
<td>AVL:30</td>
<td>Audio Volume (30)</td>
</tr>
<tr>
<td>12</td>
<td>AVL:40</td>
<td>Audio Volume (40)</td>
</tr>
<tr>
<td>13</td>
<td>AVL:50</td>
<td>Audio Volume (50)</td>
</tr>
<tr>
<td>14</td>
<td>AVL:60</td>
<td>Audio Volume (60)</td>
</tr>
<tr>
<td>15</td>
<td>DAM:FULL</td>
<td>Aspect (16:9)</td>
</tr>
<tr>
<td>16</td>
<td>DAM:JUST</td>
<td>Aspect (Just)</td>
</tr>
<tr>
<td>17</td>
<td>DAM:NORM</td>
<td>Aspect (4:3)</td>
</tr>
<tr>
<td>18</td>
<td>DAM:ZOOM</td>
<td>Aspect (Zoom)</td>
</tr>
<tr>
<td>19</td>
<td>IMS:SL1</td>
<td>Input select (SLOT INPUT)</td>
</tr>
<tr>
<td>20</td>
<td>IMS:S1A</td>
<td>Input select (SLOT INPUT A)</td>
</tr>
<tr>
<td>21</td>
<td>IMS:S1B</td>
<td>Input select (SLOT INPUT B)</td>
</tr>
<tr>
<td>22</td>
<td>IMS:VD1</td>
<td>Input select (VIDEO)</td>
</tr>
<tr>
<td>23</td>
<td>IMS:YP1</td>
<td>Input select (COMPONENT)</td>
</tr>
<tr>
<td>24</td>
<td>IMS:HM1</td>
<td>Input select (HDMI)</td>
</tr>
<tr>
<td>25</td>
<td>IMS:DV1</td>
<td>Input select (DVI)</td>
</tr>
<tr>
<td>26</td>
<td>IMS:PC1</td>
<td>Input select (PC)</td>
</tr>
<tr>
<td>27</td>
<td>IMS:NW1</td>
<td>Input select (NETWORK)</td>
</tr>
<tr>
<td>28</td>
<td>OSL:SCR0</td>
<td>Screen Saver Scrolling bar only (OFF)</td>
</tr>
<tr>
<td>29</td>
<td>OSL:SCR1</td>
<td>Screen Saver Scrolling bar only (ON)</td>
</tr>
<tr>
<td>30</td>
<td>POF</td>
<td>Power OFF</td>
</tr>
<tr>
<td>31</td>
<td>PON</td>
<td>Power ON</td>
</tr>
<tr>
<td>32</td>
<td>SSC:FC0</td>
<td>Screen Saver function (Scrolling bar only)</td>
</tr>
<tr>
<td>33</td>
<td>SSC:FC1</td>
<td>Screen Saver function (Negative image)</td>
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<tr>
<td>34</td>
<td>SSC:MOD0</td>
<td>Screen Saver (Mode (OFF))</td>
</tr>
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<td>35</td>
<td>SSC:MOD3</td>
<td>Screen Saver (Mode (ON))</td>
</tr>
<tr>
<td>36</td>
<td>VMT:0*</td>
<td>Picture Mute (OFF)</td>
</tr>
<tr>
<td>37</td>
<td>VMT:1*</td>
<td>Picture Mute (ON)</td>
</tr>
</tbody>
</table>

* Picture Mute cannot be unlocked by powering off/on with the remote control. Turn off and on again with the button on the unit or enter the command VMT:0 to unlock Picture Mute.
## Specifications

<table>
<thead>
<tr>
<th></th>
<th>TH-85PB1W</th>
<th>TH-103PB1W</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Source</strong></td>
<td>200 - 240 V AC, 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power on</td>
<td>1,090 W</td>
<td>1,310 W</td>
</tr>
<tr>
<td>Stand-by condition</td>
<td>0.5 W</td>
<td>0.5 W</td>
</tr>
<tr>
<td>Power off condition</td>
<td>0.3 W</td>
<td>0.3 W</td>
</tr>
<tr>
<td><strong>Plasma Display panel</strong></td>
<td>Drive method: AC type</td>
<td>Drive method: AC type</td>
</tr>
<tr>
<td></td>
<td>85-inch, 16:9 aspect ratio</td>
<td>103-inch, 16:9 aspect ratio</td>
</tr>
<tr>
<td><strong>Screen size</strong></td>
<td>1,889 mm (W) × 1,062 mm (H) × 2,167 mm (diagonal)</td>
<td>2,269 mm (W) × 1,276 mm (H) × 2,603 mm (diagonal)</td>
</tr>
<tr>
<td>(No.of pixels)</td>
<td>2,073,600 (1,920 (W) × 1,080 (H)) [5,760 × 1,080 dots]</td>
<td></td>
</tr>
<tr>
<td><strong>Operating condition</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature</td>
<td>0 °C - 40 °C</td>
<td></td>
</tr>
<tr>
<td>Humidity</td>
<td>20 % - 80 %</td>
<td></td>
</tr>
<tr>
<td><strong>Applicable signals</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Colour System</td>
<td>NTSC, PAL, PAL60, SECAM, Modified NTSC</td>
<td></td>
</tr>
<tr>
<td>Scanning format</td>
<td>525 (480) / 60i · 60p, 625 (575) / 50i · 50p, 750 (720) / 60i · 50i · 50p · 24i · 25i · 30i · 24sF, 1250 (1080) / 50i</td>
<td></td>
</tr>
<tr>
<td><strong>Connection terminals</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AV IN</td>
<td>VIDEO</td>
<td>AUDIO L-R</td>
</tr>
<tr>
<td></td>
<td>BNC</td>
<td>RCA Pin jack × 2</td>
</tr>
<tr>
<td></td>
<td>HDMI</td>
<td>TYPE A Connector</td>
</tr>
<tr>
<td>COMPONENT/RGB IN</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Y/G</td>
<td>BNC</td>
<td>with sync 1.0 Vp-p (75 Ω)</td>
</tr>
<tr>
<td>Pt/Cr/B</td>
<td>BNC</td>
<td>0.7 Vp-p (75 Ω)</td>
</tr>
<tr>
<td>Pr/Cr/R</td>
<td>BNC</td>
<td>0.7 Vp-p (75 Ω)</td>
</tr>
<tr>
<td>AUDIO L-R</td>
<td>RCA Pin jack × 2</td>
<td>0.5 Vrms, Shared with VIDEO</td>
</tr>
<tr>
<td>DVI-D IN</td>
<td>DVI-D 24 Pin</td>
<td>Compliance with DVI Revision 1.0</td>
</tr>
<tr>
<td></td>
<td>AUDIO</td>
<td>Compatible with HDCP 1.1</td>
</tr>
<tr>
<td></td>
<td>Stereo mini jack (M3) × 1</td>
<td>0.5 Vrms, Shared with PC IN</td>
</tr>
<tr>
<td>PC IN</td>
<td>High-Density Mini D-sub 15 Pin</td>
<td>Y or G with sync 1.0 Vp-p (75 Ω)</td>
</tr>
<tr>
<td></td>
<td>AUDIO</td>
<td>Y or G without sync 0.7 Vp-p (75 Ω)</td>
</tr>
<tr>
<td></td>
<td>Stereo mini jack (M3) × 1</td>
<td>Pr/Cr/B: 0.7 Vp-p (75 Ω)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pr/Cr/R: 0.7 Vp-p (75 Ω)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>HD/VD: 1.0 - 5.0 Vp-p (high impedance)</td>
</tr>
<tr>
<td>SERIAL</td>
<td>External Control Terminal</td>
<td>0.5 Vrms, Shared with DVI-D IN</td>
</tr>
<tr>
<td></td>
<td>D-sub 9 Pin</td>
<td>RS-232C compatible</td>
</tr>
<tr>
<td>WIRELESS MODULE</td>
<td>for Wireless module (ET-WM200E / ET-WM200U)</td>
<td></td>
</tr>
<tr>
<td>LAN</td>
<td>RJ45 10BASE-T/100BASE-TX, compatible with PJLink™</td>
<td></td>
</tr>
<tr>
<td>AUDIO OUT</td>
<td>L-R</td>
<td>RCA Pin jack × 2 (L / R)</td>
</tr>
<tr>
<td></td>
<td>OUTPUT LEVEL : VARIABLE (-∞ ~ 0 dB)</td>
<td>[INPUT 1 kHz / 0 dB, 10 kΩ Load]</td>
</tr>
<tr>
<td><strong>Sound</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speakers</td>
<td>160 mm × 40 mm × 2 pcs</td>
<td></td>
</tr>
<tr>
<td>Audio Output</td>
<td>20 W [10 W + 10 W] (10 % THD)</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (W × H × D)</strong></td>
<td>2,015 mm × 1,195 mm × 99 mm</td>
<td>2,412 mm × 1,419 mm × 134 mm</td>
</tr>
<tr>
<td><strong>Mass (weight)</strong></td>
<td>approx. 115 kg net</td>
<td>approx. 189 kg net</td>
</tr>
</tbody>
</table>

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