Operating Instructions
High Definition Plasma Display

For more detailed instructions, refer to the Operating Instructions on the CD-ROM.

English

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

TQBC2604
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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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: 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 arrow-head 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.

Important Safety Instructions

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

IMPORTANT: THE MOULDED PLUG
FOR YOUR SAFETY, PLEASE READ THE FOLLOWING TEXT CAREFULLY
This display is supplied with a moulded three pin mains plug for your safety and convenience. A 10 amp fuse is fitted in this plug. Shall the fuse need to be replaced, please ensure that the replacement fuse has a rating of 10 amps and that it is approved by ASTA or BSI to BS1362.
Check for the ASTA mark  or the BSI mark  on the body of the fuse.
If the plug contains a removable fuse cover, you must ensure that it is refitted when the fuse is replaced.
If you lose the fuse cover the plug must not be used until a replacement cover is obtained. A replacement fuse cover can be purchased from your local Panasonic dealer.
Do not cut off the mains plug. Do not use any other type of mains lead except the one supplied with this display.
The supplied mains lead and moulded plug are designed to be used with this display to avoid interference and for your safety.
If the socket outlet in your home is not suitable, get it changed by a qualified electrician.
If the plug or mains lead becomes damaged, purchase a replacement from an authorized dealer.
WARNING: — THIS DISPLAY MUST BE EARTHED.
How to replace the fuse. Open the fuse compartment with a screwdriver and replace the fuse.
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-85VX200W)
  TY-ST103PF9 (for TH-103VX200W)
- Floor stand ...................................................... TY-ST85PF12 (for TH-85VX200W)
- Wall-hanging bracket (vertical) ...................... TY-WK85PV12 (for TH-85VX200W)
  TY-WK103PV9 (for TH-103VX200W)
- BNC Dual Video Terminal Board .................. TY-FB9BD
- HD-SDI Terminal Board with audio .............. TY-FB10HD
- Dual Link HD-SDI Terminal Board ............... TY-FB11HD
- Ir Through Terminal Board ......................... TY-FB9RT
- DVI-D Terminal Board ................................. TY-FB11DD
- AV Terminal Box ........................................... TY-TB10AV

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.
  • 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-85VX200W)
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-103VX200W)
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 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.

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

■ 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.
Safety Precautions

3D Safety Precautions

WARNING

- Small Parts
  3D Eyewear contains small parts (battery and specialised band, etc.) and must be kept out of reach of small children to avoid accidental ingestion.

- Disassembly
  Do not disassemble or modify the 3D Eyewear.

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

CAUTION

To enjoy 3D images safely and comfortably, please read these instructions fully.

- Use for commercial applications and public viewing
  Someone in authority should responsibly convey the precautions for use of the 3D Eyewear to the user.

- 3D Eyewear
  Do not drop, exert pressure on, or step on the 3D Eyewear.
  Always store the 3D Eyewear in the case provided when not in use.
  Be careful of the tips of the frame when putting on the 3D Eyewear.
  Be careful not to trap a finger in the hinge section of the 3D Eyewear.
  Pay special attention when children are using the 3D Eyewear.
  3D Eyewear should not be used by children younger than 5 - 6 years old, as a guideline.
  All children must be fully supervised by parents or guardians who must ensure their safety and health throughout the using 3D Eyewear.
Viewing 3D Content
Content for 3D viewing includes commercially available Blu-ray discs, 3D broadcasts, etc.
When preparing your own 3D content, ensure that it is properly produced.
Do not use the 3D Eyewear if you have a history of over-sensitivity to light, heart problems, or have any other existing medical conditions.
Please stop using the 3D Eyewear immediately, if you feel tired, are not feeling well or experience any other uncomfortable sensation.
Take an appropriate break after viewing a 3D movie.
Take a break of between 30 - 60 minutes after viewing 3D content on interactive devices such as 3D games or computers.
Be careful not to strike the screen or other people unintentionally. When using the 3D Eyewear the distance between the user and screen can be misjudged.
The 3D Eyewear must only be worn when viewing 3D content.
If you do not look toward the screen for a while when viewing 3D images, the 3D Eyewear may be turned off automatically.
If you suffer from any eyesight problems (short / far-sighted, astigmatism, eyesight differences in left and right), please ensure to correct your vision before using the 3D Eyewear.
Stop using the 3D Eyewear if you can clearly see double images when viewing 3D content.
When the multiple plasma displays are placed side by side, 3D images may be seen doubly due to interference among them. Place each display at an appropriate location to avoid it.
Do not use the 3D Eyewear at a distance less than the recommended distance.
View from at least the recommended distance (3 times the effective height of the screen).
TH-85VX200W: 3.2 m or more
TH-103VX200W: 3.9 m or more
When the top and bottom area of the screen is blackened, such as movies, view the screen at a distance 3 times further than the height of the actual image. (That makes the distance closer than above recommended figure.)

3D Eyewear Use
Before using the 3D Eyewear, ensure no breakable objects surrounding the user to avoid any accidental damage or injury.
Remove the 3D Eyewear before moving around to avoid falling or accidental injury.
Always put the 3D Eyewear in the case (supplied) after use.
Use the 3D Eyewear only for the intended purpose and nothing else.
Do not use 3D Eyewear in the condition of high temperature.
Do not use if the 3D Eyewear is physically damaged.
Do not use any devices that emit the infrared signals near the 3D Eyewear, as this may cause the 3D Eyewear false operations.
Do not use devices (such as mobile phones or personal transceivers) that emit strong electromagnetic waves near the 3D Eyewear as this may cause the 3D Eyewear to malfunction.
Stop using the 3D Eyewear immediately if a malfunction or fault occurs.
Stop using the 3D Eyewear immediately if you experience any redness, pain, or skin irritation around the nose or temples.
In rare cases, the materials used in the 3D Eyewear may cause an allergic reaction.

Lithium Battery
Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
Accessories

Accessories Supply

Check that you have the accessories and items shown

- Remote Control Transmitter N2QAYB000562
- Batteries for the Remote Control Transmitter (R6 (UM3) Size x 2)
- Fixing band x 2 TMME203
- Power supply cord
- TH-85VX200W
- Clamper x 1 TMM15412-2
- Fixing band x 2
- Batteries for the Remote Control Transmitter (R6 (UM3) Size x 2)
- Power supply cord
- TH-85VX200W
- Clamper x 1 TMM15412-2
- Fixing band x 2
- Batteries for the Remote Control Transmitter (R6 (UM3) Size x 2)
- Power supply cord
- TH-103VX200W
- Eyebolt cap x 1
- Allen wrench
- Eyebolt cap x 1
- Allen wrench
- Eyebolt cap x 1
- Allen wrench
- Eyebolt cap x 1
- Allen wrench

3D Eyewear set
- Screwdriver
- Operating Instructions
- Ferrite core x 2 J0KG00000014
- Noise cut filter TXZDM011MBE

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

TH-85VX200W
- Eyebolt cap x 1
- Eyebolt cap x 1 (M12)
- Allen wrench

TH-103VX200W
- Eyebolt cap x 1
- Eyebolt cap x 1 (M16)
- Allen wrench

Use the clamper when connecting a LAN cable.

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 -).

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

AC cord connection and fixing, cable fixing

TH-85VX200W

Notes:

- Secure any excess cables with bands as required.
- Two fixing bands are supplied with this unit. In case of securing cables at three positions, please purchase it separately.

- Cable fixing bands
  - 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.**

AC cord fixing

1. Plug the AC cord into the display unit.
2. Fix the AC cord with the clamper.

Close
- Push until the hook clicks.

Open
- 1. Keep the knob pressed.
- 2. Pull off.

Unplug the AC cord
- Unplug the AC cord pressing the two knobs.

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

To tighten:
- Pull

To loosen:
- Push the catch

Push the catch
- Pull
Connections

TH-103VX200W

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.

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

AC cord fixing

1. Plug the AC cord into the display unit. Plug the AC cord until it clicks.
2. Fix the AC cord with the clamper.

Open
1. Keep the knob pressed.
2. Pull off.

Close
Push until the hook clicks.

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

Cable fixing bands
Secure any excess cables with bands as required.
Note: Two fixing bands are supplied with this unit. In case of securing cables at four positions, please purchase it separately.

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

To tighten:
Pull the catch

To loosen:
Push the catch
Pull

Plug the AC cord into the display unit.
Plug the AC cord until it clicks.
Fix the AC cord with the clamper.

Secure any excess cables with bands as required.
Video equipment connection

- **COMPONENT/RGB IN**
  - Component/RGB Video Input Terminal
  - Connect to video terminal of PC or equipment with Y, Pb(Cb) and Pr(Cr) output.

- **AV IN (HDMI 1-4)**
  - HDMI Input Terminal

- **PC IN**
  - PC Input Terminal

- **SERIAL**
  - Control the Plasma Display by connecting to PC

- **3D SHUTTER OUT**
  - Connect the 3D IR TRANSMITTER (optional accessory)

- **AUDIO OUT**
  - Connect to sound equipment

- **LAN**
  - Connect to a network to control the unit

- **SLOT**
  - Terminal board (optional accessories) insert slot

- **AUDIO OUT**
  - Connect to sound equipment
Power On / Off

Connecting the AC cord plug to the Plasma Display.
Fix the AC cord plug securely to the Plasma Display with the clamper. (see page 11, 12)

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

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 Ø/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.

OSD Language

1. Select the language.
2. Set.

Notes:
• Once the language is set, this screen won’t be displayed when switching on the unit next time.
• After the setting, language selection can be done from the Setup menu.

3D Safety Precautions

If the power is turned on for the next and subsequent times, 3D Safety Precautions are displayed.

If you do not want to show this message, set to hide it in the “3D Safety Precautions” on the Options menu.

When 3D images will be viewed by unspecified number of people or used for commercial applications, someone in authority should convey the following precautions. These precautions should be followed in the home as well.

3D Viewing/ 3D Content/ Viewing distance/ 3D Eyewear recommendations
- To enjoy 3D images safely and comfortably, please read the Operating Instructions fully.
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.

HDMI input terminals in HDMI 1 to HDMI 4.
Component or RGB input terminal in COMPONENT/RGB IN.*
PC input terminal in PC IN.

* "COMPONENT" may be displayed as "RGB" depending on the setting of "Component/RGB-in select".

When an optional Terminal Board is installed:

Input terminal in Terminal Board
When a dual input Terminal Board is installed, “SLOT INPUT A” and “SLOT INPUT B” are displayed.

Using dedicated buttons for input selection

Press to select HDMI signal terminals in HDMI 1 to HDMI 4.
Press to select component or RGB signal terminal in COMPONENT/RGB IN.
Press to select PC signal terminal in PC IN.
Press to select Input terminal in Terminal Board.
For dual input Terminal Board, you can select either input terminal using A or B button.

Notes:
• Selecting is also possible by pressing the INPUT button on the unit.
• Select to match the signals from the source connected to the component/RGB input terminals.
• 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, but this function is not the perfect solution to image retention.
**Basic Controls**

**Main Unit**

*Infrared transmitter for 3D Eyewear*

*Note:*

- Do not place any objects between the transmitter and 3D Eyewear.

*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 “Control I/F Select” is set to “LAN”.)
- **Power-ON**........ Green
- **PC Power management (DPMS)**
  - Orange (With PC input signal.)
  - 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.

*Up / Down button*

When the menu screen is displayed:
- “▲”: press to move the cursor up
- “▼”: press to move the cursor down

(see page 19)

*MENU Screen ON / OFF*

Each time the MENU button is pressed, the menu screen will switch. (see page 19)

*Enter / Aspect button*

(see page 19)

*INPUT button*

(INPUT signal selection)

(see page 16)

*Main Power On / Off Switch*
Basic Controls

Remote Control Transmitter

Standby (ON / OFF) button
The Plasma Display must first be plugged into the wall outlet and turned on at the power switch (see page 14).
Press this button to turn the Plasma Display On, from Standby mode. Press it again to turn the Plasma Display Off to Standby mode.

LIGHT button
The remote control’s buttons illuminate.

AUTO SETUP button
Automatically adjusts the position/size of the screen.

HDMI buttons
Press to select HDMI 1 to HDMI 4 input. (see page 16)

PICTURE button

OK button
Press to make selections.

Cursor buttons

EXIT button
Exits from Menu screen.

SLOT buttons
Press to select SLOT Terminal Board. (see page 16)

INPUT button
Press to select input signal sequentially. (see page 16)

RECALL button
Press the “RECALL” button to display the current system status.
1 Input label
2 Aspect mode
   During 3D images
   Profile name
   NANODRIFT Saver operating
3 Off timer
   The off timer indicator is displayed only when the off timer has been set.

ASPECT button
Press to adjust the aspect.

Numeric buttons

MEM. LOAD button

PC button
Press to select PC input. (see page 16)

COMPO. button
Press to select Component or RGB input. (see page 16)

MENU button
Displays menu screen. (see page 19)

POS. /SIZE button

RETURN button (see page 19)
Press the RETURN button to return to previous menu screen.

FUNCTION buttons

VIDEO MENU button
Press to select Picture Mode.
 Normal → Dynamic → Monitor → Cinema

EX.SCALER button

OFF TIMER button
The Plasma Display can be preset to switch to stand-by 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.

When three minutes remain, “Off timer 3” will flash. The off timer is cancelled if a power interruption occurs.
On-Screen Menu Displays

1. Display the menu screen.
   - Press the MENU button on the remote control.
   - Each time the MENU button is pressed, the menu screen will switch.

2. Select the menu.
   - Use the buttons to access and select the desired menu option.
   - The menu can be displayed directly by pressing these buttons.

3. Select the item.
   - Use the buttons to select the desired item within the menu.
   - Example: Picture menu

4. Set.
   - Use the buttons to adjust the selected item.

5. Exit the menu.
   - Press the MENU button several times to exit.
   - Press the RETURN button to return to the previous menu.

Menu display list

- **Picture menu**
  - Normal
  - Advanced settings
  - Memory save
  - Memory load
  - Memory edit
  - Picture Mode
  - Contrast
  - Normalise
  - Brightness
  - Advanced settings
  - Sharpness
  - White balance

- **Setup menu**
  - Monitor
  - Warm
  - Advanced settings
  - Colour
  - Hue
  - External scaler mode
  - Power save
  - PC Power management
  - Auto power off
  - External scaler mode
  - Signal
  - Screensaver
  - Network Setup
  - Input label
  - Component/RGB-in select
  - External scaler mode

- **Pos. /Size menu**
  - 1:1 Pixel Mode
  - H-Pos
  - H-Size
  - Auto Setup
  - Normalise
  - V-Pos
  - V-Size
  - Dot Clock
  - Clock Phase
  - Clamp Position
  - Off
  - Under scan

- **Sound menu**
  - Normal
  - Mute
  - Volume
  - Treble
  - Bass
  - External scaler mode
  - Subwoofer
  - Tone Control
  - Speaker Select
  - Volume Level

See page 28-39 on the CD-ROM for more information on the Picture menu.
See page 41-52 on the CD-ROM for more information on the Setup menu.
See page 25-27 on the CD-ROM for more information on the Sound menu.
## Specifications

<table>
<thead>
<tr>
<th>TH-85VX200W</th>
<th>TH-103VX200W</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Source</strong></td>
<td>200 - 240 V AC, 50/60 Hz</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td></td>
</tr>
<tr>
<td>Power on</td>
<td>1,200 W</td>
</tr>
<tr>
<td>Stand-by condition</td>
<td>0.5 W</td>
</tr>
<tr>
<td>Power off condition</td>
<td>0.3 W</td>
</tr>
<tr>
<td><strong>Plasma Display panel</strong></td>
<td></td>
</tr>
<tr>
<td>Drive method : AC type</td>
<td>85-inch, 16:9 aspect ratio</td>
</tr>
<tr>
<td><strong>Screen size</strong></td>
<td></td>
</tr>
<tr>
<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><strong>RGB</strong></td>
<td></td>
</tr>
<tr>
<td>Y/G</td>
<td>RCA Pin jack</td>
</tr>
<tr>
<td>Ps/Ce/B</td>
<td>RCA Pin jack</td>
</tr>
<tr>
<td>Pr/Ce/R</td>
<td>RCA Pin jack</td>
</tr>
<tr>
<td>AUDIO L-R</td>
<td>RCA Pin jack × 2</td>
</tr>
<tr>
<td><strong>PC IN</strong></td>
<td></td>
</tr>
<tr>
<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>VBS (use HD port)</td>
<td>Y or G without sync 0.7 Vp-p (75 Ω)</td>
</tr>
<tr>
<td>Pr/Ce/R: 0.7 Vp-p (75 Ω)</td>
<td></td>
</tr>
<tr>
<td>HD/VD: 1.0 - 5.0 Vp-p (high impedance)</td>
<td></td>
</tr>
<tr>
<td>without picture 0.3 Vp-p (high impedance)</td>
<td></td>
</tr>
<tr>
<td>0.5 Vrms</td>
<td></td>
</tr>
<tr>
<td><strong>AV IN</strong></td>
<td></td>
</tr>
<tr>
<td>HDMI 1-4</td>
<td>TYPE A Connector × 4</td>
</tr>
<tr>
<td>HDMI (Version 1.4 with 3D)</td>
<td></td>
</tr>
<tr>
<td><strong>SERIAL</strong></td>
<td>External Control Terminal</td>
</tr>
<tr>
<td>D-sub 9 Pin</td>
<td>RS-232C compatible</td>
</tr>
<tr>
<td><strong>3D SHUTTER OUT</strong></td>
<td>M3 jack × 1, for 3D IR TRANSMITTER</td>
</tr>
<tr>
<td><strong>AUDIO</strong></td>
<td></td>
</tr>
<tr>
<td>OUT</td>
<td>L-R</td>
</tr>
<tr>
<td>Output level: Variable (≈ — 0 dB)</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (W × H × D)</strong></td>
<td>2,015 mm × 1,195 mm × 99 mm</td>
</tr>
<tr>
<td>(141 mm when including protruding portion of terminals)</td>
<td></td>
</tr>
<tr>
<td><strong>Mass (weight)</strong></td>
<td>approx. 117.0 kg net</td>
</tr>
</tbody>
</table>

**Notes:**
- Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.
- This equipment complies with the EMC standards listed below.
- EN55022, EN55024, EN61000-3-2, EN61000-3-3.
Customer Service

Customer Service Directory

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To obtain information in the Republic of Mexico contact us at:

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(55) 5000-1200 - Mexico D.F. and Metropolitan Area
Declaration of Conformity
with the requirements of Technical Regulation on the Restriction Of the use of certain Hazardous Substances in Electrical and Electronic Equipment
(adopted by Order No.1057 of Cabinet of Ministers of Ukraine)

The Product is in conformity with the requirements of Technical Regulation on the Restriction Of the use of certain Hazardous Substances in electrical and electronic equipment (TR on RoHS).

The content of hazardous substance with the exemption of the applications listed in the Annex No.2 of TR on RoHS:

1. Lead (Pb) – not over 0.1wt % or 1000wt ppm;
2. Cadmium (Cd) – not over 0.01wt % or 100wt ppm;
3. Mercury (Hg) – not over 0.1wt % or 1000wt ppm;
4. Hexavalent chromium (Cr⁶⁺) – not over 0.1wt % or 1000wt ppm;
5. Polybrominated biphenyls (PBBs) – not over 0.1wt % or 1000wt ppm;
6. Polybrominated diphenyl ethers (PBDEs) – not over 0.1wt % or 1000wt ppm.
Information for Users on Collection and Disposal of Old Equipment and used Batteries

These symbols on the products, packaging, and/or accompanying documents mean that used electrical and electronic products and batteries should not be mixed with general household waste. For proper treatment, recovery and recycling of old products and used batteries, please take them to applicable collection points, in accordance with your national legislation and the Directives 2002/96/EC and 2006/66/EC.

By disposing of these products and batteries correctly, you will help to save valuable resources and prevent any potential negative effects on human health and the environment which could otherwise arise from inappropriate waste handling.

For more information about collection and recycling of old products and batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items. Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

For business users in the European Union

If you wish to discard electrical and electronic equipment, please contact your dealer or supplier for further information.

[Information on Disposal in other Countries outside the European Union]

These symbols are only valid in the European Union. If you wish to discard these items, please contact your local authorities or dealer and ask for the correct method of disposal.

Note for the battery symbol (bottom two symbol examples):

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

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

Model Number: ___________________________ Serial Number: ___________________________

Panasonic Corporation
Web Site : http://panasonic.net
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