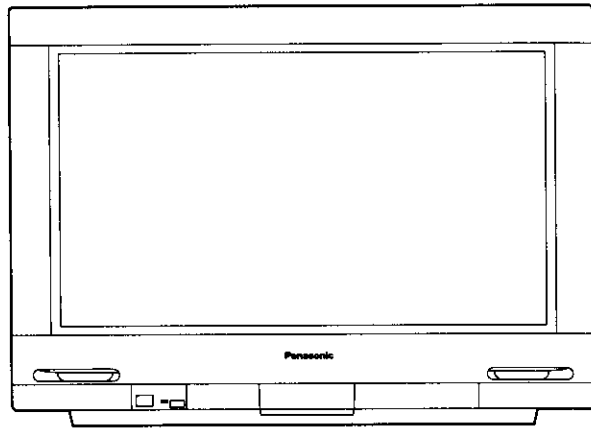


Panasonic[®]

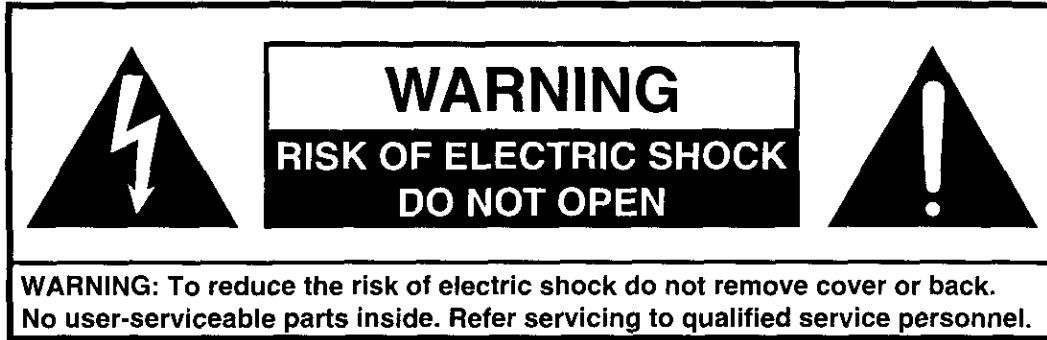


CT-34WDM60

Color Video Monitor

Operating
Instructions

Safety Instructions



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.

Note to CATV System Installer : This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Safety Instructions For Video Monitor

1. Read and apply the operating instructions provided with your video monitor.
2. Read all of the instructions given here and retain them for later use.
3. Unplug this video monitor from the wall outlet before cleaning. Do not use liquid or aerosol cleaners. Use a damp cloth for cleaning.
4. Do not use attachments not recommended by the video monitor manufacturer as they may cause hazards.
5. Do not use this video monitor near water. For example : Avoid placing it near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, etc.
6. Do not place this video monitor on an unstable cart, stand, or table. The video monitor may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart or stand recommended by the manufacturer, or sold with the video monitor. Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. Slots and openings in the cabinet and the back or bottom are provided for ventilation, and to insure reliable operation of the video monitor and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the video monitor on a bed, sofa, rug or other similar surface. This video monitor should never be placed near or over a radiator or heat register. This video monitor should not be placed in a built-in installation such as a bookcase unless proper ventilation is provided.
8. Operate only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home consult your video monitor dealer or local power company. For video monitors designed to operate from battery power, refer to the operating instructions.
9. This video monitor is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
10. Do not allow anything to rest on the power cord. Do not locate this video monitor where the cord will be abused by persons walking on it.
11. Follow all warnings and instructions marked on the video monitor.
12. For added protection for this video monitor during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the video monitor due to lightning and power-line surges.
13. Do not overload wall outlets and extension cords as this can result in fire or electric shock.



14. Never push objects of any kind into this video monitor through cabinet slots as they may touch dangerous voltage points or short out parts that could result in a fire or electric shock. Never spill liquid of any kind on the video monitor.
 15. Do not attempt to service this video monitor yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
 16. Unplug this video monitor from the wall outlet, and refer servicing to qualified an Authorized Service Centor under the following conditions :
 - a. When the power cord or plug is damaged or frayed.
 - b. If liquid has been spilled into the video monitor.
 - c. If the video monitor has been exposed to rain or water.
 - d. If the video monitor does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the video monitor to normal operation.
 - e. If the video monitor has been dropped or the cabinet has been damaged.
 - f. When the video monitor exhibits a distinct change in performance - this indicates a need for service.
 17. When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
 18. Upon completion of any service or repairs to this video monitor, ask the service technician to perform routine safety checks to determine that the video monitor is in safe operating condition.
 19. **WARNING : To prevent fire or shock hazard, do not expose this appliance to rain or moisture.**
 20. **CAUTION : TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH A RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.**
- NOTE :**This equipment is designed to operate in the U.S.A., where the broadcasting system and AC house current is exactly the same as in the U.S.A. .

Important Information Regarding Use of Video Games, Computers, Caption or Other Fixed Image Displays.

The extended use of fixed image program material can cause a permanent "shadow image" on the picture tube. This background image is viewable on normal programs in the form of a stationary fixed image. This type of irreversible picture tube deterioration can be limited by observing the following steps :

- A. Reduce the brightness/contrast setting to a minimum viewing level.
- B. Do not display the fixed image for extended periods of time.
- C. Turn the power off when not in actual use.

NOTE :The marking or retained image on the picture tube resulting from fixed image use is not an operating defect and as such is not covered by Warranty. This product is not designed to display fixed image patterns for extended periods of time.

Dear Panasonic Customer

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

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.

Table of Contents

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FCC STATEMENT:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC CAUTION:

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by Matsushita Electric Corporation of America could cause harmful interference and would void the user's authority to operate this device.

IMPORTANT SAFETY NOTICE

WARNING: To prevent damage which may result in fire or shock hazard, do not expose this appliance to rain or moisture.

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.

Safety Precautions

WARNING

Set up

Do not place the Monitor on sloped or unstable surfaces.

- The Monitor may fall off or tip over.

Do not place any objects on top of the Monitor.

- If water is spilled onto the Monitor 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 Monitor, please consult an Authorized Service Center.

When using the Monitor

The Monitor is designed to operate on 120 V AC, 50/60 Hz.

Do not cover the ventilation holes.

- Doing so may cause the Monitor to overheat, which can cause fire or damage to the Monitor.

Securely insert the power cord 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 plate is loose, they should not be used.

Do not handle the power cord plug with wet hands.

- Doing so may cause electric shocks.

Do not do anything that might damage the power cable. When disconnecting the power cable, hold the plug, not the cable.

- Do not make any modifications, place heavy objects on, place near hot objects, heat, bend, twist or forcefully pull the power cable. Doing so may cause damages to the power cable which can cause fire or electric shock. If damages to the cable suspected, have it repaired at an Authorized Service Center.

If the Monitor is not in use for a long period of time, unplug the power cord from wall outlet.

If problems occur during use

If a problem occurs (such as no picture or no sound), or if smoke or an abnormal odor detected from the Monitor, Unplug the power cord immediately.

- Continuous use of the Display under these conditions might cause fire or permanent damage to the unit. Have the Display evaluated at an Authorized Service Center. Services to the Display by any unauthorized personnel are strongly discouraged due to its high voltage dangerous nature.

If water or foreign objects get inside the Monitor, if the Monitor is dropped, or if the cabinet becomes damaged, disconnect the power cord plug immediately.

- A short may occur, which could cause fire. Contact an Authorized Service Center for any repairs that need to be made.

Safety Precautions

When using the Monitor

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

- Top of Monitor is usually very hot due to high temperature exhaust air from ventilation holes. Burns or personal injuries can happen if any body parts brought too close. Placing any object near the top of the display could also result in heat damages to the object as well as to the Display due to its ventilation holes blocked.

Be sure to disconnect all cables before moving the Monitor.

- Moving the Display with its cables attached might damage the cables which in turn can cause fire or electric shock.

Cleaning and maintenance

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

- If the surface is particularly dirty, wipe with a soft, lint-free cloth which has been soaked in water to which a small amount of neutral detergent has been added, 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. Furthermore, avoid contact with volatile substances such as insect sprays, solvents and thinners, 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 Monitor. 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.

Disconnect the power plug from the wall outlet 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.

- Built-up dust on power cord plug can increase humidity which might damage the insulation and cause fire. Unplug the cord from wall outlet and clean it with a dry cloth.

Note:

If still pictures from sources such as video games or computers are projected for long periods, the image may become burned into the Monitor panel (producing an "afterimage").

Accessories

Accessories Supplied

Check that you have the accessories and items shown 



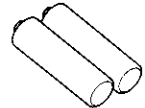
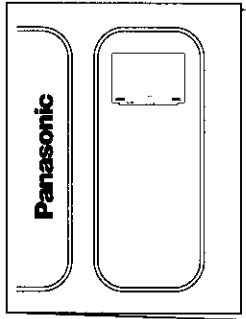
Operating Instruction book



Remote Control Transmitter
TNQE192

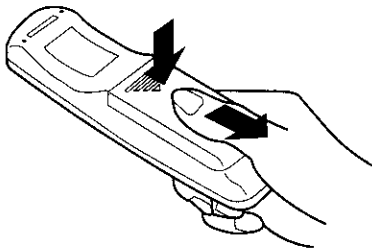


Batteries for the Remote Control
Transmitter
(R6 (AA) Battery × 2)



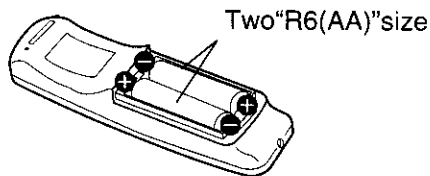
Remote Control Battery Installation

1



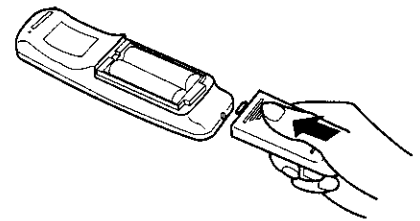
Press and slide off the battery cover

2



Insert batteries – note correct polarity
(+ and –)

3



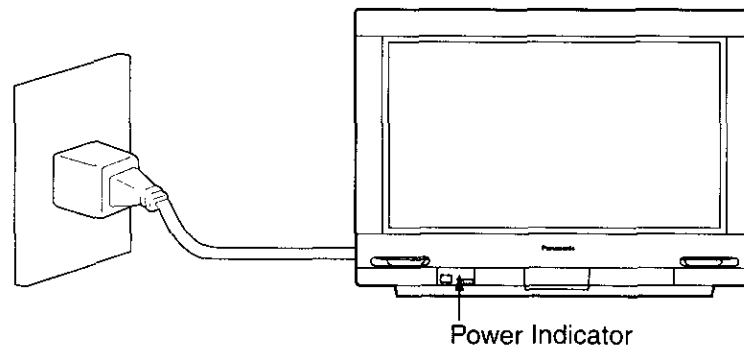
Replace the cover

Note:

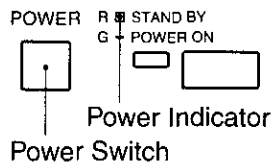
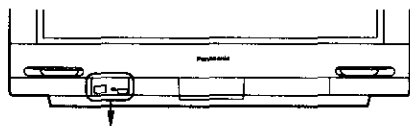
- (1) Make sure that the batteries are fitted properly.
- (2) Do not mix old batteries with new batteries. Remove old, exhausted batteries immediately.
- (3) Do not mix different battery types, i.e. Alkaline and Manganese. Do not use rechargeable (Ni-Cad) batteries.

Quick Start Guide

Connect the Plug to the Wall Outlet



How to Turn the Power On



POWER



Push the Power switch on the color monitor to turn the set on.

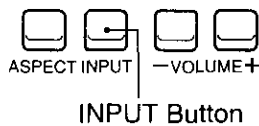
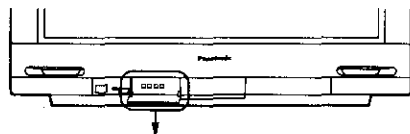
The Power Indicator will light.

Power-OFF..... Indicator not illuminated

Stand-by..... Red

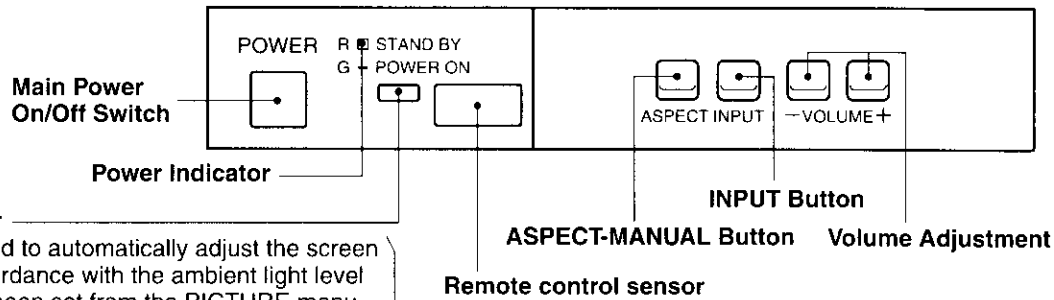
Power-ON Green

Select the input signal



Press the INPUT button to select the input video signal to be played back from the equipment such as a VCR which has been connected to the Monitor.

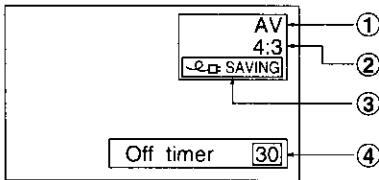
Basic Controls



Brightness sensor
 (This sensor is used to automatically adjust the screen brightness in accordance with the ambient light level when AUTO has been set from the PICTURE menu, to make the picture easier to see.)

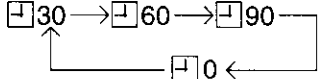
Remote control sensor

Recall Button
 Push the "RECALL" Button to display the current system status.



- ① INPUT Mode
 - ② Aspect Mode (See page 16)
 - ③ Power Save Mode (See page 25)
 - ④ Off timer
- The off timer indicator is displayed only when the off timer has been set.

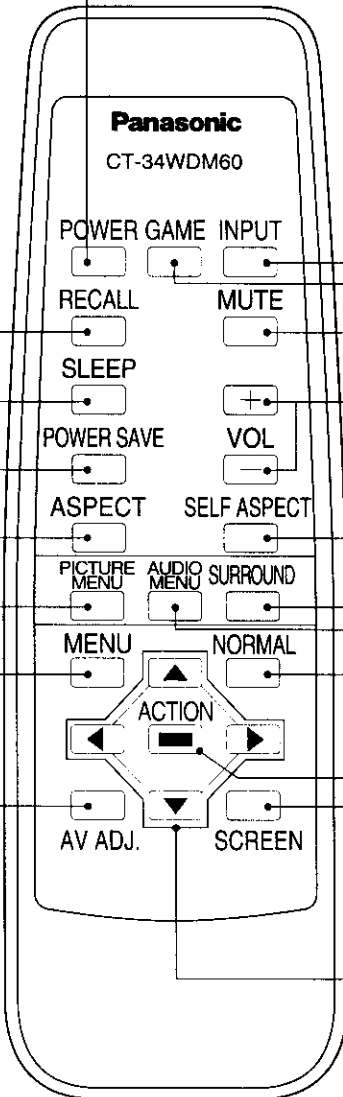
SLEEP (Off Timer) Button
 The Monitor may be preset to switch to stand-by after a fixed period. The setting changes to 30 minutes, 60 minutes, 90 minutes and 0 minutes (off timer cancelled) each time the button is pressed.



When three minutes remain, "Off timer 3" will flash. The off timer is cancelled if there is a power outage.

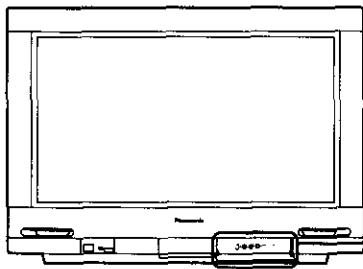
Stand-by (ON/OFF) Button
 The Monitor must first be switched on at the wall outlet and at the Power Switch. (See page 8)
 Push this button to turn the Monitor ON, from STAND-BY mode. Push it again to turn the Monitor to STAND-BY mode.

- POWER SAVE Button** (see page 25)
- ASPECT-MANUAL Button** (see page 16)
- PICTURE MENU Button** (see page 19)
- MENU Button**
- AV Adjustment Button** (see page 20, 23)

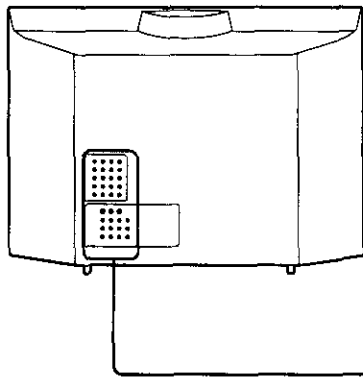


- INPUT Button (AV(S-Video)/Component Mode Selection)**
 Push the "INPUT" Button to select AV(S-Video)/Component video input signal modes sequentially.
- GAME Button** (see page 25)
- Sound mute On/Off**
- Volume Adjustment**
 Push the Volume Up "+" or Down "-" Button to increase or decrease the sound volume level.
- SELF ASPECT Button** (see page 16)
- SURROUND Button** (see page 24)
- AUDIO MENU Button** (see page 22)
- Normalization Button** (see page 18, 20, 21, 23)
- ACTION Button**
- PICTURE POS./SIZE Button** (see page 18)
- Cursor Buttons to make selections and adjustments**

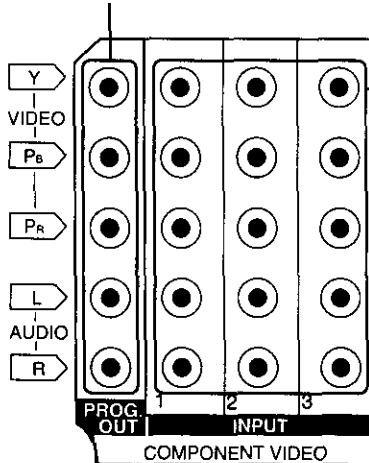
Connections



For connecting video cameras and TV game consoles.



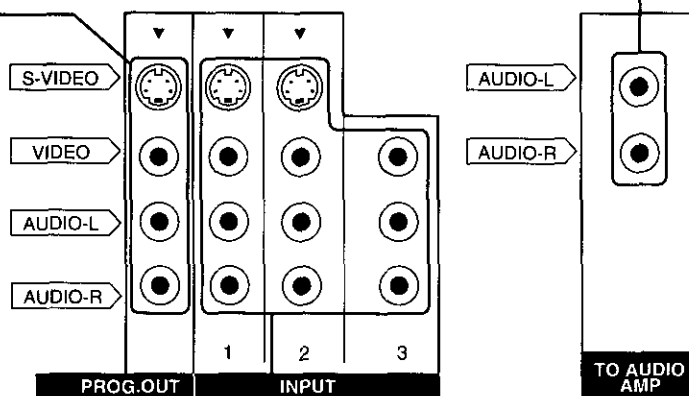
These output VIDEO and AUDIO signals which are input via the COMPONENT VIDEO INPUT terminals.
(Signals from the VIDEO INPUT 1 to 4 terminals are not output.)



For connecting sources with Y, Pb, Pr output terminals such as digital TV tuners, DVD players and digital equipment adapters.

For connecting an audio amplifier. These normally output audio signals that match the screen picture.

The Program output terminals will pass through the video and audio signals connected to the standard Video inputs 1, 2, 3 and 4. The signals connected to Component Video inputs 1, 2 or 3 are not output.



For connecting video equipment such as a VCR.

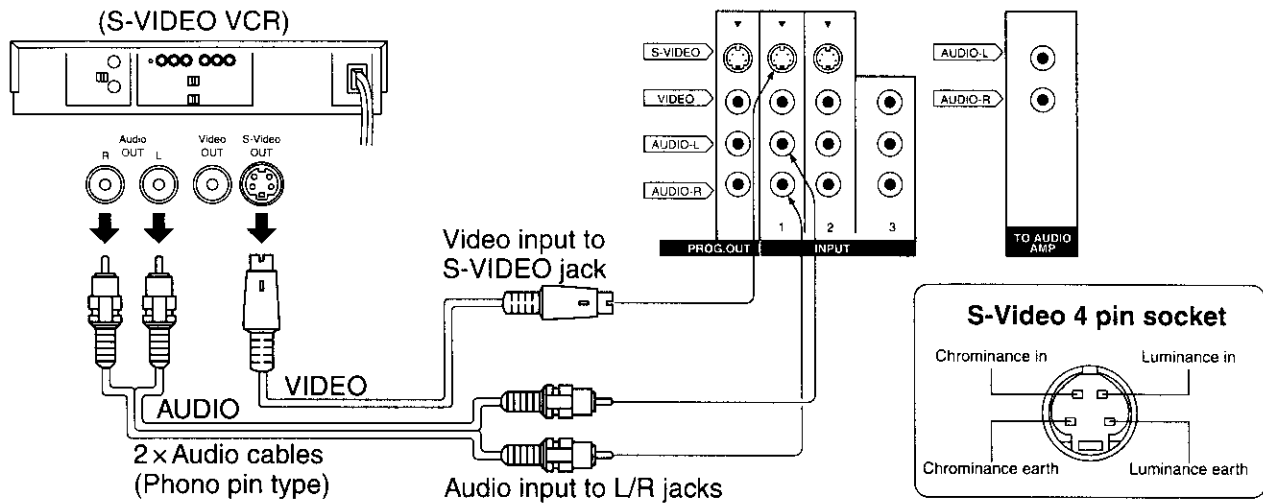
Note :

Switching of each input signal can be done in either of two modes : "AUTO" or "MANUAL". Please refer to INPUT SWITCH MODE on page 26 for further details.

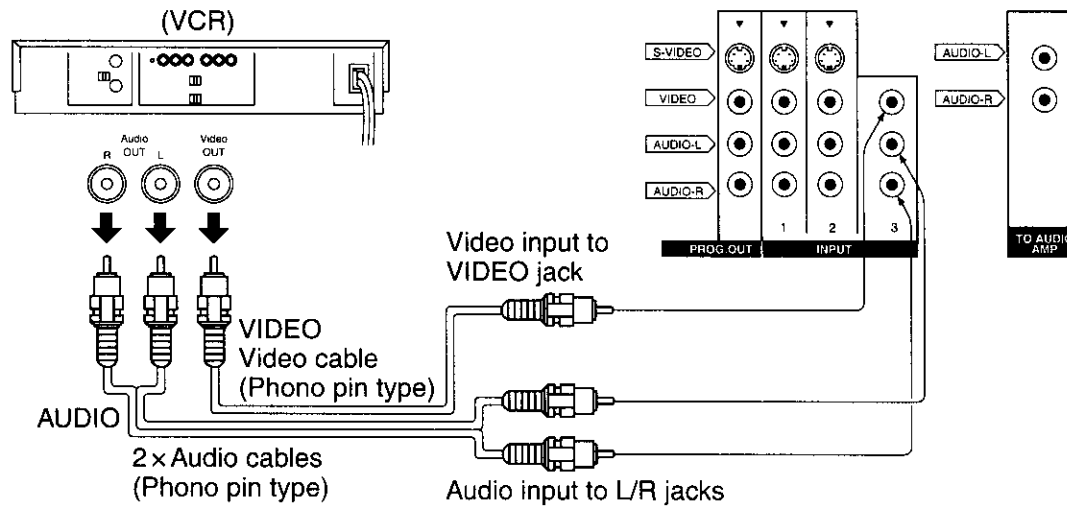
Connections

How to connect the AV Input Terminals

S-VIDEO Signal Connection



Video Signal Connection



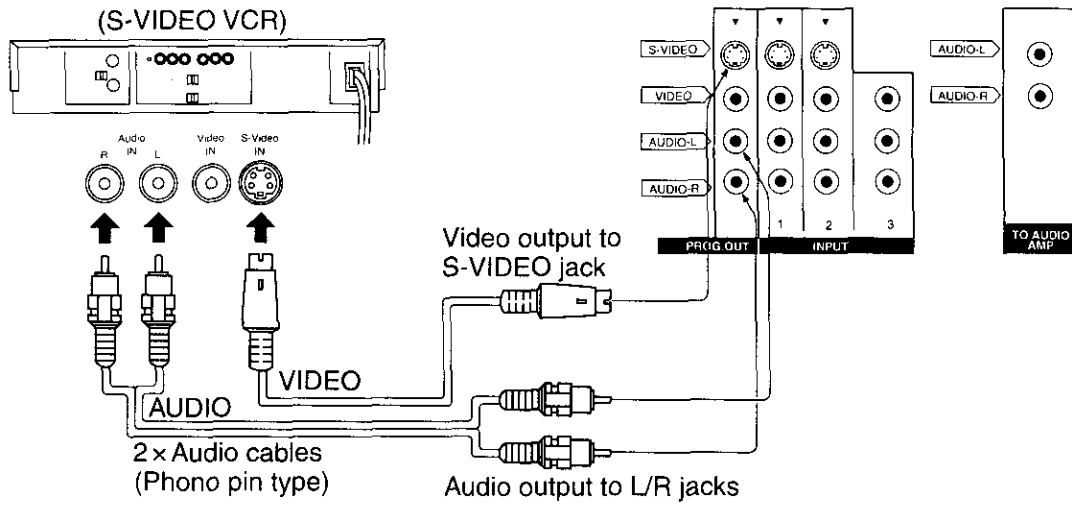
Note:

- (1) Additional equipment and cables shown are not supplied with this set.
- (2) When connecting video cables, priority is given to the S-Video cable when the S-Video input terminal and the video input terminal are connected at the same time.

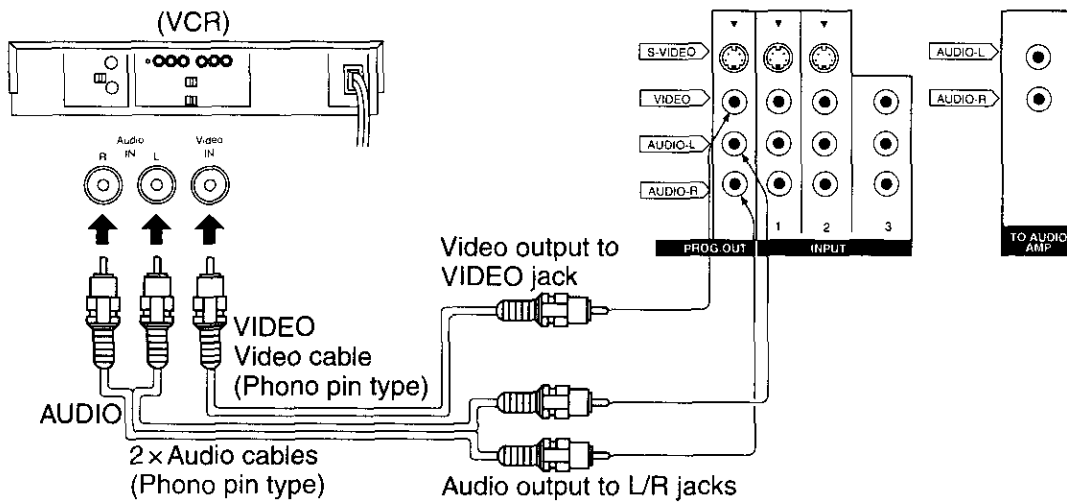
Connections

How to connect the AV Prog. Out Terminals

S-VIDEO Signal Connection



Video Signal Connection



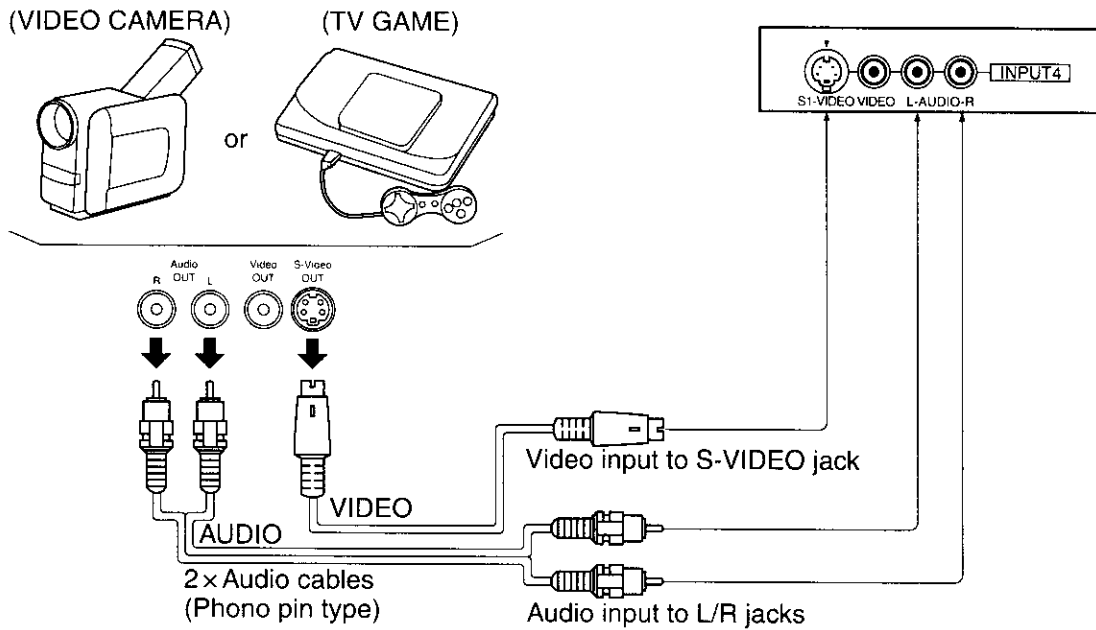
Note:

- (1) Additional equipment and cables shown are not supplied with this set.
- (2) When connecting video cables, priority is given to the S-Video cable when the S-Video input terminal and the video input terminal are connected at the same time.

Connections

How to connect the AV Input Terminals

S-VIDEO Signal Connection

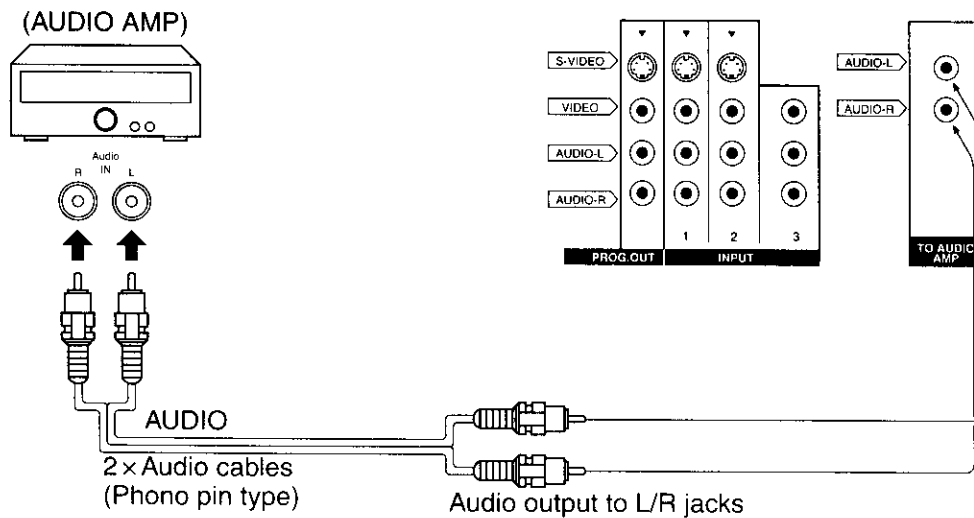


Note:

- (1) Additional equipment and cables shown are not supplied with this set.
- (2) If the component to be connected has no S-VIDEO signal output terminals, connect to the VIDEO terminals.

How to connect the AUDIO Output Terminals

AUDIO Signal Connection



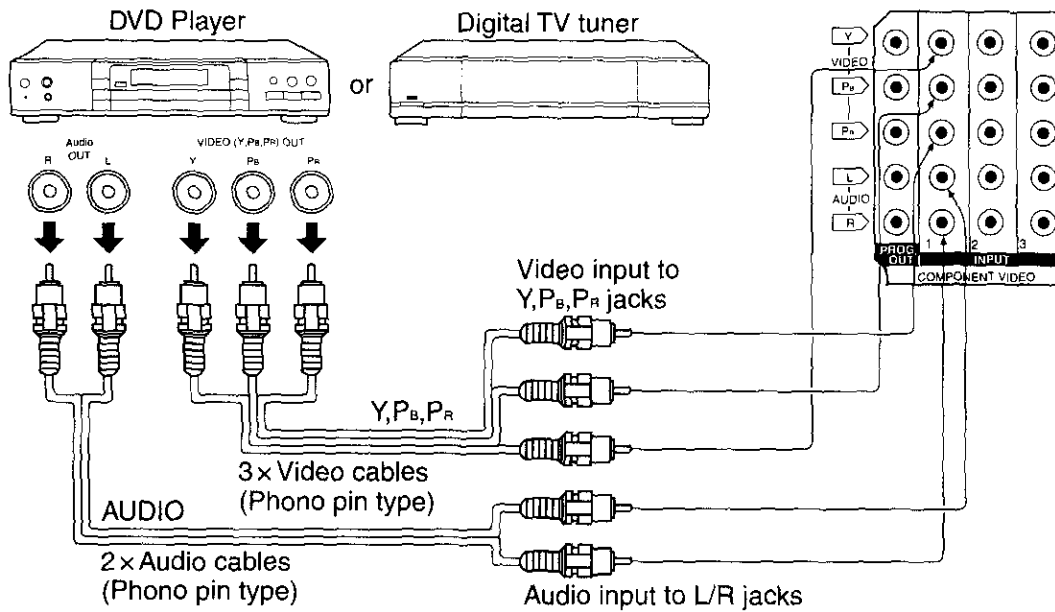
Note:

- (1) Additional equipment and cables shown are not supplied with this set.

Connections

How to connect the COMPONENT VIDEO Input Terminals

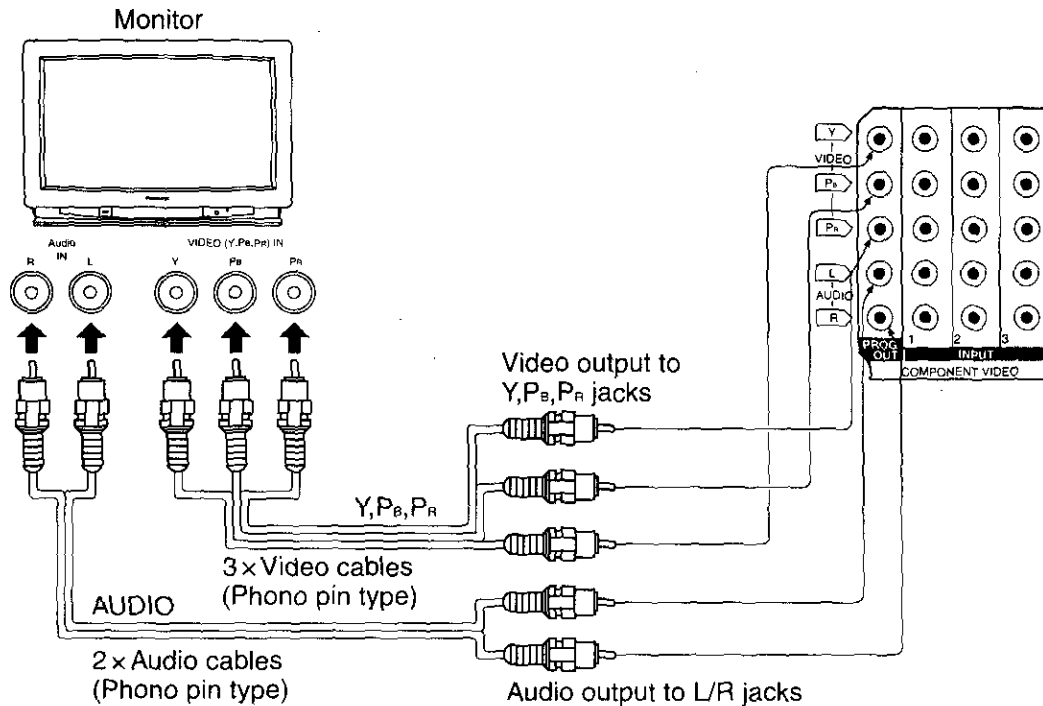
Component signals (Y, P_B, P_R) Connection



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

How to connect the COMPONENT VIDEO Prog. Out Terminals

Component signals (Y, P_B, P_R) Connection


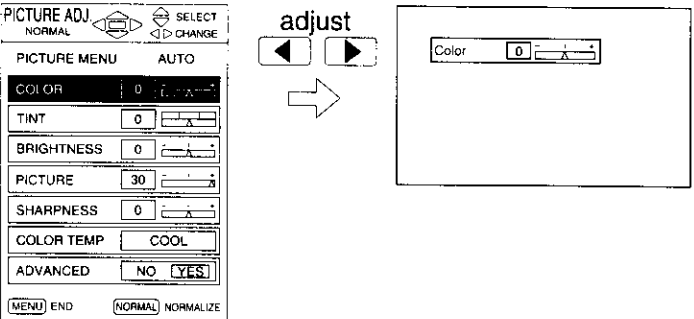

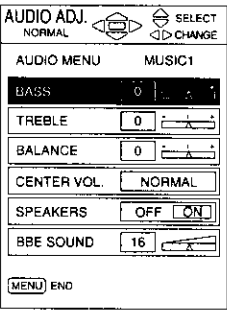

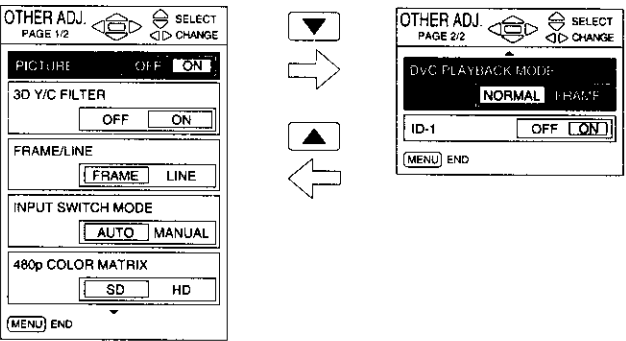
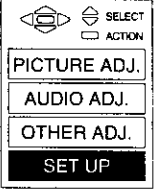
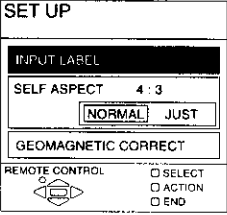


Note:
Additional equipment and cables shown are not supplied with this set.

Flowchart of Menu

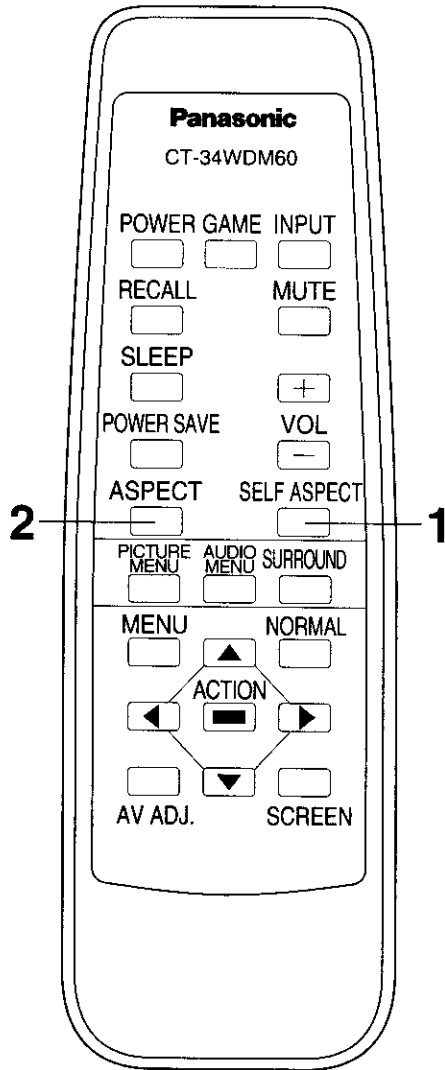
If the MENU button is pressed, the Menu screen will be displayed.

If the MENU button is pressed once more while the menu screen is displayed, the Menu screen will be cleared.

| Menu | On-Screen Indication | |
|---|---|---|
| <p>PICTURE ADJ.</p> <p>(Refer to page 20.)</p> |  | <p>On-Screen Indication</p>  |
| <p>AUDIO ADJ.</p> <p>(Refer to page 23.)</p> |  | <p>On-Screen Indication</p>  |
| <p>OTHER ADJ.</p> <p>(Refer to page 26.)</p> |  | <p>On-Screen Indication</p>  |
| <p>SET UP</p> <p>(Refer to page 28.)</p> |  | <p>On-Screen Indication</p>  |

ASPECT Controls

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

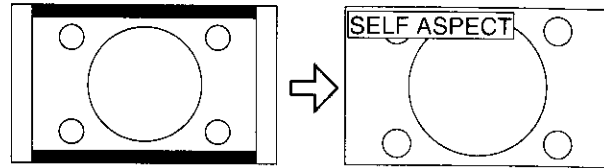


1 SELF ASPECT



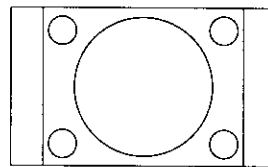
SELF ASPECT Button

Press the SELF ASPECT button to switch to SELF ASPECT mode. The display will automatically become enlarged.



For an elongated image

Image is expanded



For a 4:3 image

Changes in accordance with the SELF ASPECT mode setting. (Refer to page 28.)

Note:

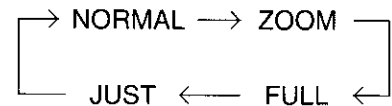
- (1) If a 480p or 1080i signal is input during Component input signal mode, the controls will not operate.

2 ASPECT



ASPECT Button

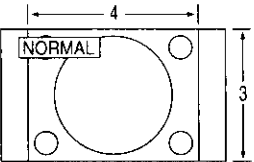
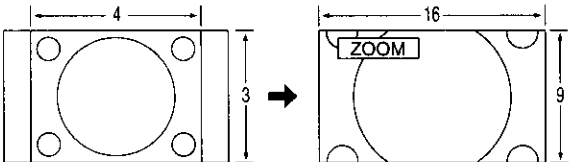
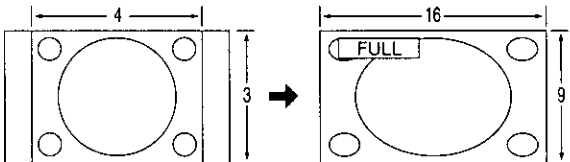
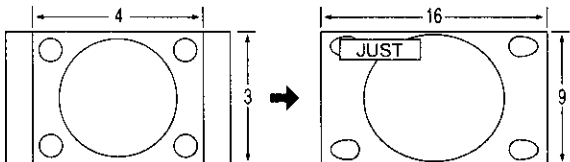
The aspect mode changes each time the ASPECT button is pressed.



Note:

- (1) For a 480p signal input during "Component" input signal mode, the mode switches between "ZOOM" and "FULL" only.
- (2) When a 1080i signal is being received, the mode is set to "FULL" mode, and switching is not possible.

ASPECT Controls

| Mode | Picture | Explanation |
|---------------|--|---|
| NORMAL |  | <p>NORMAL will display a 4:3 picture at its standard 4:3 size and can be selected if you wish to view in this format.</p> |
| ZOOM |  | <p>ZOOM mode magnifies the central section of the picture.</p> |
| FULL |  | <p>FULL will display the picture at its maximum size but with slight elongation.</p> |
| JUST |  | <p>JUST mode will display a 4:3 picture at maximum size but with aspect correction applied to the center of the screen so that elongation is only apparent at the left and right edges of the screen. The size of the picture will depend on the original signal.</p> |

Note:

- (1) The S-Video terminal on this set can detect specially encoded signals that are compatible with wide screen monitors. When a full image from the S-Video terminal of specially encoded video is detected by the set, the screen size automatically sets to "FULL" mode.
- (2) The screen size also changes if ID-1 is detected.
- (3) The screen size will also change if S1 detection has been set.

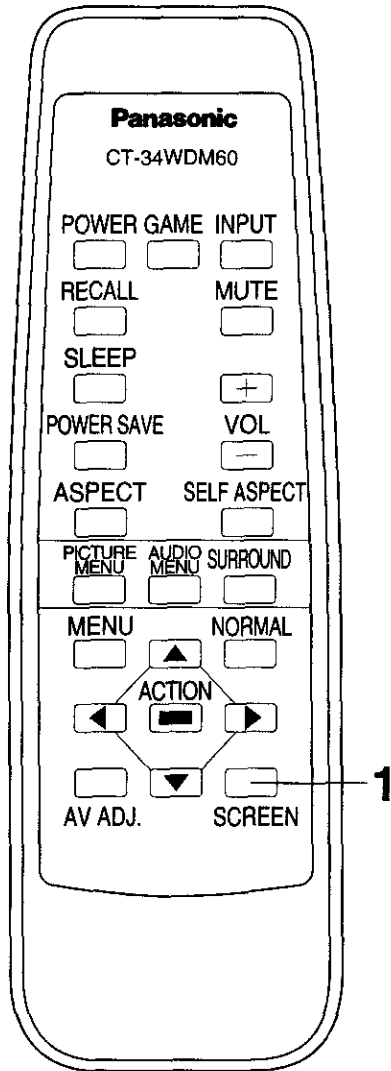
PICTURE POS./SIZE Controls



SCREEN Button

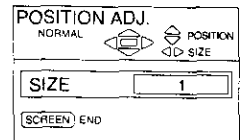
When the SCREEN button is pressed, the Picture Pos./Size menu appears, and the picture size and vertical picture position can then be adjusted.

The adjustable items and adjustment ranges vary for each input signal and aspect mode.




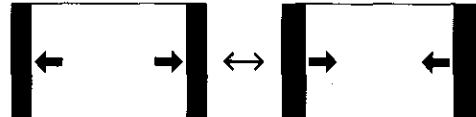

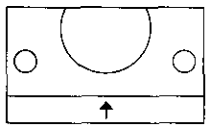

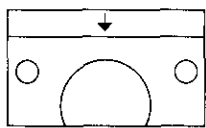
During "AV(S-Video)" and "Component" input signal modes

The Position Left "◀" and Right "▶" buttons can be used to change the picture size.



The Position Up "▲" and Down "▼" buttons can be used to adjust the vertical picture position.



| Button | Picture |
|--|--|
| Changing the size  | Example : "NORMAL" mode  |
| Moving the vertical position (up)  |  |
| Moving the vertical position (down)  |  |

Note:

- (1) The picture size cannot be changed in "ZOOM" mode when a 480p component signal is being input.
- (2) The vertical position cannot be changed when Size 1 and Size 2 have been selected in "NORMAL" mode and when Size 1 has been selected in "FULL" mode. In addition, the vertical position cannot be changed when 1080i signals are being input.

Helpful Hint (Normalization)

If the NORMAL button on the remote control unit is pressed when the POSITION ADJ. display is active, all adjustment values will be returned to the factory setting level.

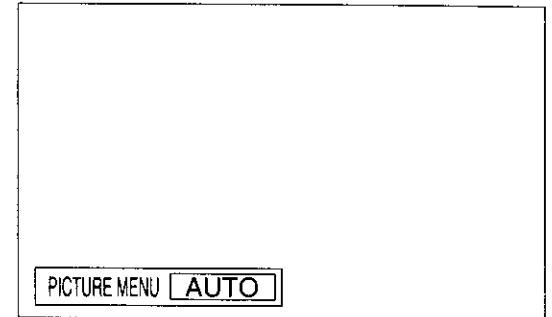
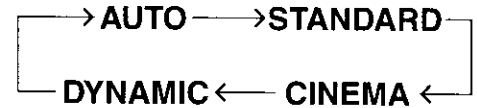
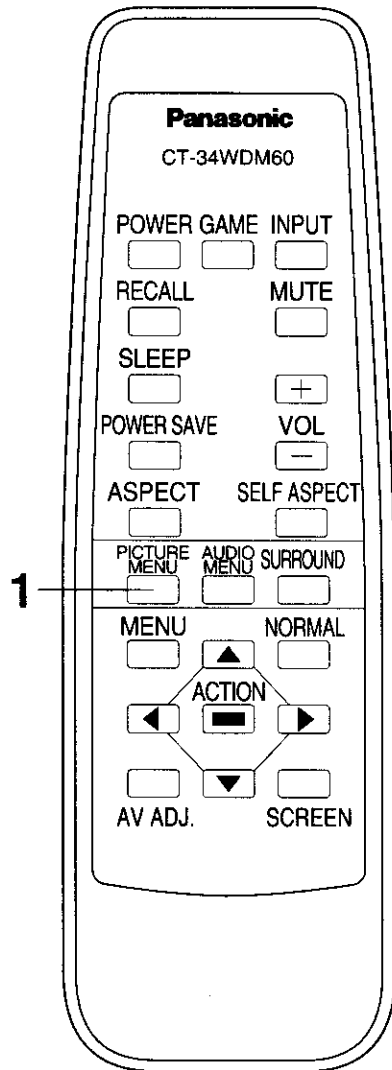
PICTURE MENU Controls

1



PICTURE MENU Button

The setting changes each time the button is pushed.



| | |
|----------|---|
| AUTO | The screen brightness is adjusted automatically in accordance with the ambient light level to make the picture easier to see. |
| STANDARD | For viewing in normal (evening lighting) environments. This menu selects normal levels of Brightness and Contrast. |
| CINEMA | Select when viewing video tapes or similar. |
| DYNAMIC | For viewing in brighter environments. This menu selects higher than normal levels of Brightness and Contrast. |

Note:

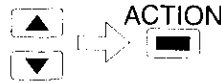
- (1) If you would like to change the picture and color of the selected PICTURE MENU to something else, adjust using the "PICTURE ADJ." menu command in the Menu. (Refer to page 20.)
- (2) PICTURE MENU **GAME** will be set during game mode.
- (3) If the picture brightness changes so that the picture becomes difficult to see when "AUTO" is set, change the PICTURE MENU setting to a different setting.

PICTURE ADJ. Menu

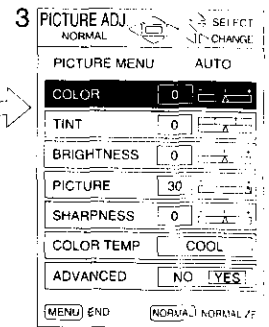
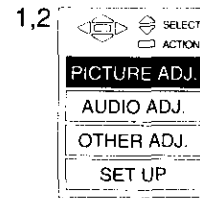
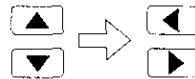
1. Push the "MENU" Button.



2. Select the "PICTURE ADJ." Menu by pushing the Position Up "▲" or Down "▼" Button and Access the "PICTURE ADJ." Menu by pushing the "ACTION" Button.



3. Select the required function by pushing the Position Up "▲" or Down "▼" buttons, and access and alter the setting by pushing the Position Left "◀" or Right "▶" buttons.



Note:

- (1) You can change the level of each Function (COLOR, TINT, BRIGHTNESS, PICTURE, SHARPNESS, COLOR TEMP, ADVANCED) for each picture Menu.
- (2) The adjustment details are stored separately for each PICTURE MENU setting.

All functions other than ADVANCED can also be adjusted using the AV adjustment button .

1. Push the button to select a function.

2. Use the and buttons to adjust.

*Refer to page 23 for audio function adjustments.

| Picture functions | (Audio functions) |
|-------------------|-------------------|
| COLOR | BBE SOUND |
| TINT | SPEAKERS |
| BRIGHTNESS | CENTER VOL. |
| PICTURE | BALANCE |
| SHARPNESS | TREBLE |
| COLOR TEMP | BASS |

Note:

- (1) If the "ADVANCED" setting is changed to YES and the Position Down "▼" button is pressed, the ADVANCED Menu will be displayed. (Refer to page 21.)
- (2) The adjustment range values should be used as an adjustment reference.

| Item | Effect | Adjustment range |
|------------|----------------------|----------------------|
| COLOR | Less More | -30 30 |
| TINT | Reddish Greenish | -30 30 |
| BRIGHTNESS | Darker Brighter | -15 15 |
| PICTURE | Less More | -30 30 |
| SHARPNESS | Less More | -15 15 |
| COLOR TEMP | | Warm / Normal / Cool |
| * ADVANCED | | No / Yes |

* ADVANCED can only be selected when the PICTURE MENU setting is STANDARD or CINEMA.

Helpful Hint (NORMAL Normalization)

If the NORMAL button on the remote control unit is pressed when the "PICTURE ADJ." menu is displayed, all adjustment values will be returned to the factory setting level of each picture mode.

PICTURE ADJ. Menu (ADVANCED Menu)

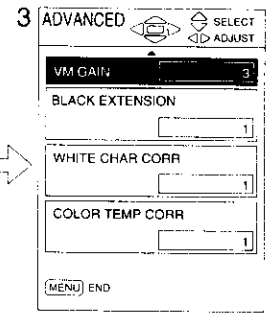
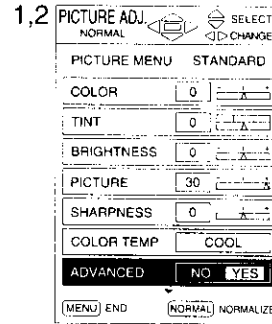
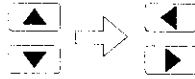
1. Use the Position Up “▲” or Down “▼” buttons to select the “ADVANCED” menu from the “PICTURE ADJ.” menu, and then use the Position Right “▶” button to select “ON”.



2. Press the Position Down “▼” button. (The “ADVANCED” menu screen will then be displayed.)



3. Select the required function by pushing the Position Up “▲” or Down “▼” buttons, and access and alter the setting by pushing the Position Left “◀” or Right “▶” buttons.



| Item | Effect | Adjustment range | Details |
|------------------------------|------------------|---|--|
| VM gain | ◀ ▶ Less More | 0 (No correction) } 15 (Strong correction) | Adjusts the emphasis for the vertical contours. |
| Black extension | ◀ ▶ Less More | 0 (Black details are lighter) } 15 (Black details are darker) | Adjusts the tone gradations for medium to dark areas. |
| White character correction | ◀ ▶ Less More | 0 (No correction) } 15 (Strong correction) | Emphasizes the whiteness of parts such as white characters. |
| Color temperature correction | ◀ ▶ Less More | -7 (Low color temperature)<Reddish> } +7 (High color temperature)<Bluish> | Allows further fine adjustment of the color temperature which has been selected from the PICTURE menu. |

Note:

- (1) The adjusted values are memorized separately for each PICTURE MENU (STANDARD/CINEMA).
- (2) The adjustment range values should be used as an adjustment reference.

Helpful Hint (NORMAL Normalization)

If the NORMAL button on the remote control unit is pressed when the “ADVANCED” menu is displayed, all adjustment values will be returned to the factory setting level.

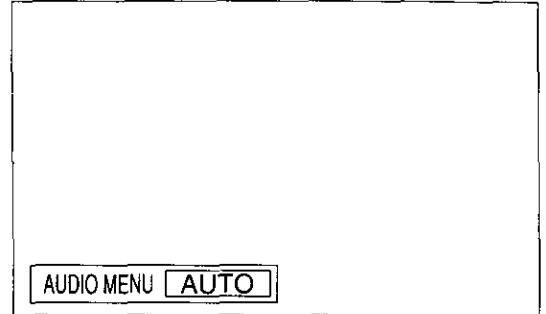
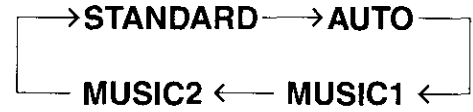
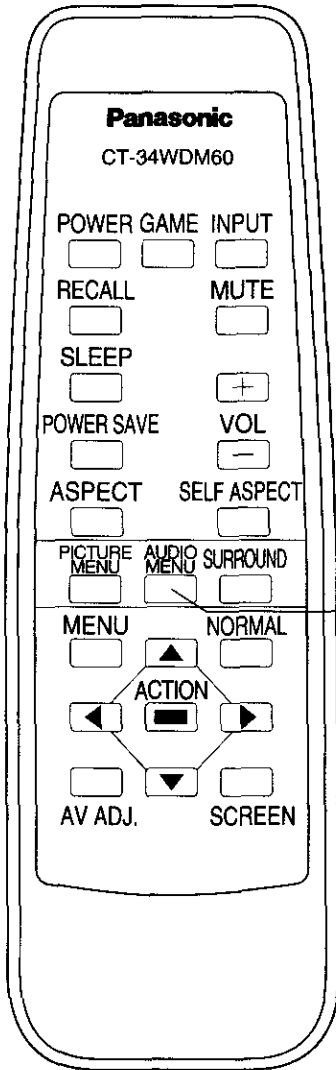
AUDIO MENU Controls

1



AUDIO MENU Button

The setting changes each time the button is pushed.



| | |
|----------|---|
| STANDARD | Reproduces the same sound as the input signal. |
| AUTO | Automatically distinguishes between conversation and music to make the sound easier to hear. |
| MUSIC1 | Enhances the treble sound range [around 4 kHz] for programs consisting primarily of music. |
| MUSIC2 | Further enhances the treble sound range (around 4 kHz). (This function is recommended for elderly people who have some trouble hearing treble ranges.) |

Note:

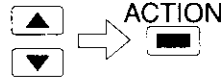
- (1) **AUDIO MENU** **GAME** will be set during game mode.
- (2) **AUDIO MENU** settings (**MUSIC1** and **MUSIC2**) automatically adjust the sound output so that quiet sounds which are difficult to hear and sudden increases in volume are made easier to listen to. (Automatic audio level adjustment ... the number showing the adjustment level set using the VOL buttons remains unchanged.)

AUDIO ADJ. Menu

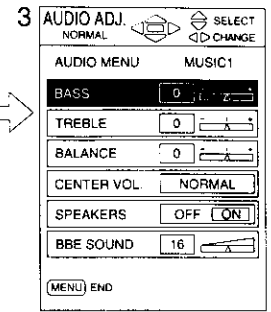
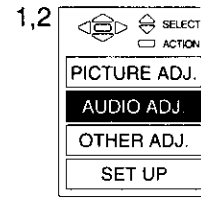
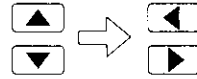
1. Push the "MENU" Button.



2. Select the "AUDIO ADJ." Menu by pushing the Position Up "▲" or Down "▼" Button and Access the "AUDIO ADJ." Menu by pushing the "ACTION" Button.



3. Select the required function by pushing the Position Up "▲" or Down "▼" buttons, and access and alter the setting by pushing the Position Left "◀" or Right "▶" buttons.



Note:

- (1) You can change the level of each Function (BASS, TREBLE, BALANCE, CENTER VOL., SPEAKERS, BBE SOUND) for each AUDIO Menu.
- (2) The adjustment details are stored separately for each AUDIO MENU setting.

All functions can also be adjusted using the AV adjustment button .

1. Push the button to select a function.

2. Use the and buttons to adjust.

*Refer to page 20 for picture function adjustments.

| Audio functions | (Picture functions) |
|-----------------|---------------------|
| BASS | COLOR TEMP |
| TREBLE | SHARPNESS |
| BALANCE | PICTURE |
| CENTER VOL. | BRIGHTNESS |
| SPEAKERS | TINT |
| BBE SOUND | COLOR |

Note:

- (1) "BBE SOUND" adjusts the clarity of the sound. An adjustment value of "0" is for normal sound.
- (2) When AUDIO MENU is set to "Auto", the "Bass" and "Treble" settings cannot be adjusted. Furthermore, "BBE SOUND" is set to either "Off" or "Auto".
- (3) Adjustment values other than the "Balance" value are memorized separately for each AUDIO MENU (STANDARD/AUTO/MUSIC1/MUSIC2).
- (4) The adjustment range values should be used as an adjustment reference.
- (5) "CENTER VOL." adjusts the volume of the sound from the center speaker.
- (6) "SPEAKERS" turns the sound from all speakers (left, right and center) on and off.

| Item | Effect | Adjustment range |
|-------------|--------------------|---------------------------|
| BASS | Less More | -15 15 |
| TREBLE | Less More | -15 15 |
| BALANCE | Left SP. Right SP. | -30 30 |
| CENTER VOL. | | OFF / LOW / NORMAL / HIGH |
| SPEAKERS | | OFF / ON |
| BBE SOUND | Less More | 0 30 (Off or Auto) * |

* Only when "Auto" has been selected from the "AUDIO ADJ." menu.

Helpful Hint (Normalization)

If the NORMAL button on the remote control unit is pressed when the "AUDIO ADJ." menu is displayed, all adjustment values will be returned to the factory setting level of each sound mode.

SURROUND Controls

1

SURROUND

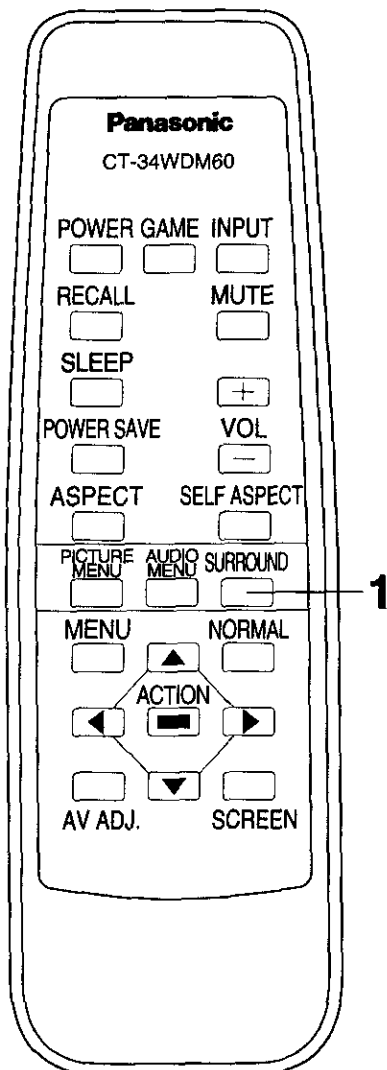
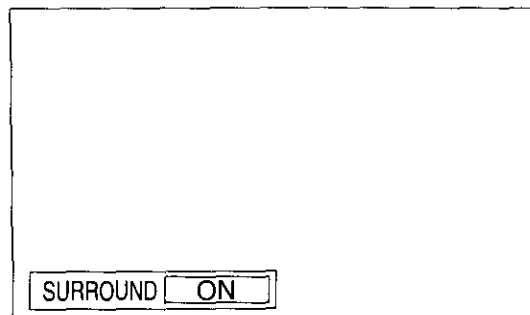


Surround Button

The benefits of surround sound are enormous. You can be completely enveloped in sound; just as if you were at a concert hall or cinema.

The surround setting switches on and off each time the SURROUND button is pressed.

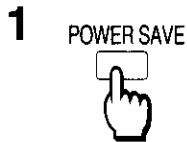
ON ← → OFF



Note:

(1) The surround settings are memorized separately for each input terminal (AV, COMPONENT).

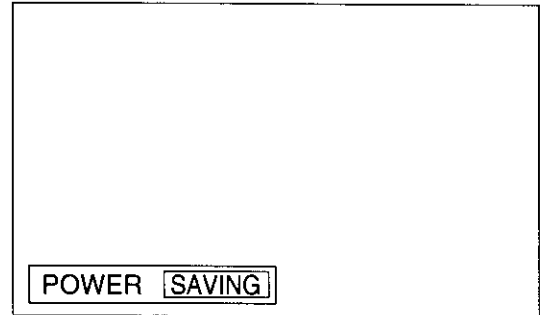
Other Useful Functions



POWER SAVE Button

The setting changes each time the button is pushed.

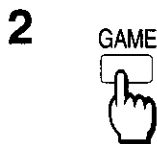
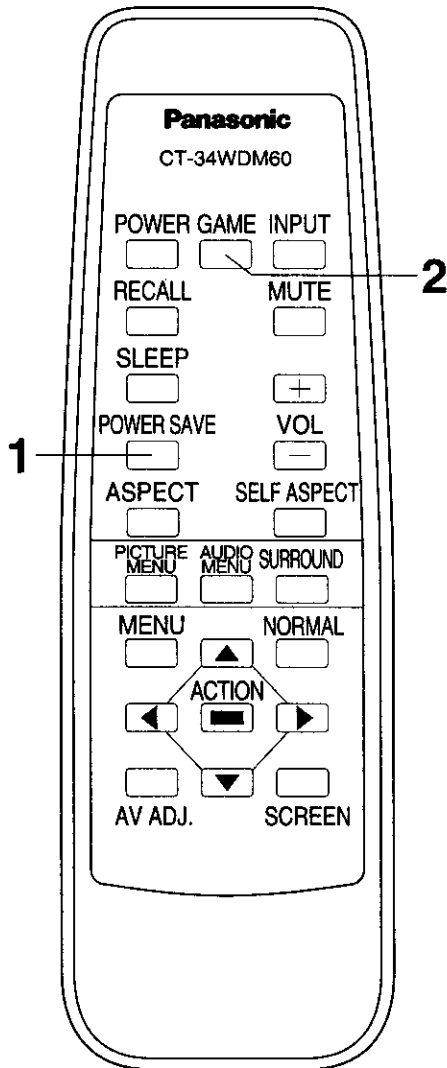
STANDARD \longleftrightarrow SAVING



- SAVING Reduces the peak luminance in scenes which are particularly bright to produce a more natural-looking picture and to reduce power consumption.
- STANDARD... Shows the picture according to the PICTURE MENU setting selected or at the brightness level which you have selected.

Note:

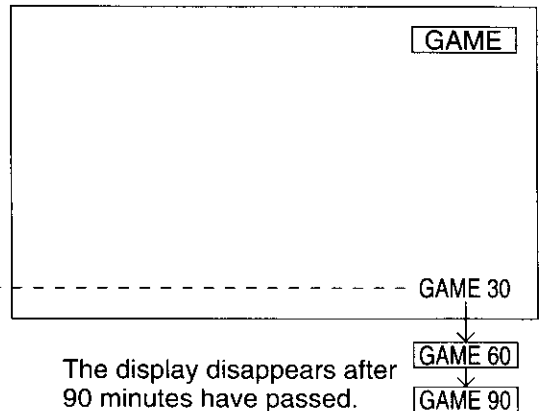
- (1) The effectiveness of the "SAVING" setting will be reduced when the PICTURE MENU setting is "CINEMA" or during GAME mode.
- (2) The "SAVING" and "STANDARD" settings are retained when the power is turned off and on.



GAME Button

The mode switches to GAME mode when this button is pushed.

The screen switches between the GAME screen for the console connected to the VIDEO INPUT 4 terminal and the original input picture each time the button is pushed.



Note:

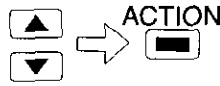
- (1) The "GAME" setting is retained when the power is turned off and on.
- (2) Refer to pages 20 and 23 for details on adjusting the picture and sound to the desired levels.

OTHER ADJ. Menu

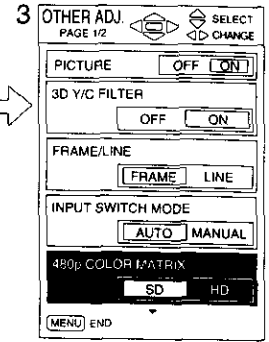
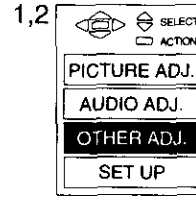
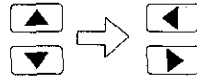
1. Push the "MENU" Button.



2. Select the "OTHER ADJ." Menu by pushing the Position Up "▲" or Down "▼" Button and Access the "OTHER ADJ." Menu by pushing the "ACTION" Button.

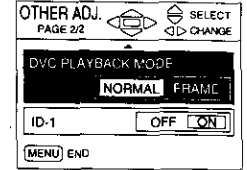


3. Select the required mode by pushing the Position Up "▲" or Down "▼" buttons, and set the appropriate function by the Position Left "◀" or Right "▶" buttons.



Note:

(1) The "OTHER ADJ." menu comprises two pages. The page displayed will change automatically when the ▲ and ▼ buttons are pushed.



| Mode | Function |
|-------------------|--|
| PICTURE | Set to "OFF" if you would like to turn off the picture and only listen to the sound. * Pictures will always be output from the PROG OUT terminal at the rear of the unit even if this setting is changed to "OFF". This setting will return to "ON" if the channel is changed or if the power is turned off and back on. |
| 3D Y/C FILTER | Set to "OFF" in order to view the picture in its natural format. * This setting cannot be changed for signals being input to the S INPUT 1, 2 and 4 terminals or the COMPONENT VIDEO INPUT 1 to 3 terminals. |
| FRAME / LINE | Set to "LINE" mode only when using a Video Game machine. * This setting cannot be changed for 480p, 1080i video signals. |
| INPUT SWITCH MODE | <p>"AUTO" The input is selected automatically to match the component connected, such as a digital TV tuner. The input changes as follows each time the INPUT button is pushed.</p> <pre> VIDEO1 VIDEO2 VIDEO3 VIDEO4 or* or* or* COMPONENT VIDEO1 → COMPONENT VIDEO2 → COMPONENT VIDEO3 → VIDEO4 </pre> <p>* If components have been connected to both the VIDEO and COMPONENT VIDEO terminals, the COMPONENT VIDEO signals will have priority.</p> <p>"MANUAL" .. The input changes as follows each time the INPUT button is pushed.</p> <pre> VIDEO1 VIDEO2 VIDEO3 VIDEO4 COMPONENT VIDEO3 ← COMPONENT VIDEO2 ← COMPONENT VIDEO1 ← VIDEO4 (Only when connected) (Only when connected) (Only when connected) </pre> |

OTHER ADJ. Menu

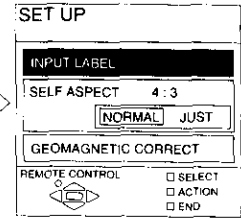
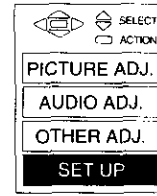
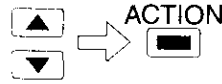
| Mode | Function |
|-------------------|--|
| 480p COLOR MATRIX | <p>If the output signals from the source connected to the COMPONENT VIDEO input terminals are in 480p format, the colors in the images from this source will be set to their natural colors.</p> <ul style="list-style-type: none"> ● SD.....If the signals are in current TV format (NTSC). ● HD.....If the signals are 480p video signals. |
| DVC PLAYBACK MODE | <p>If watching a normal image, select the "NORMAL". If the recording mode used for a device such as a digital video camera is "Frame", select the "Frame" to obtain a higher-quality playback image.</p> <p>Note:</p> <ol style="list-style-type: none"> (1) This can only be changed for VIDEO 1 to 4 and GAME screen input. (2) If normal playback images are viewed using the "FRAME" setting, sections of movement in these images may look unnatural. If this happens, select "NORMAL". |
| ID-1 | <p>If the video signals input to the VIDEO INPUT 1 to 4 terminals or the 480i signals input to the COMPONENT VIDEO INPUT 1 to 3 terminals have a screen size identification signal component, the screen size will change automatically.</p> <ul style="list-style-type: none"> ● ON When a screen size identification signal is detected, the screen size changes automatically. ● OFF..... The screen size does not change automatically. (If this function does not work correctly, set to "OFF".) |

Set up Menu

1. Push the "Menu" Button.

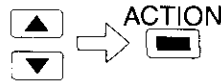


2. Select the "Set up" Menu by pushing the Position Up "▲" or Down "▼" Button and access the "Set up" Menu by pushing the "ACTION" Button.

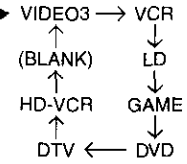
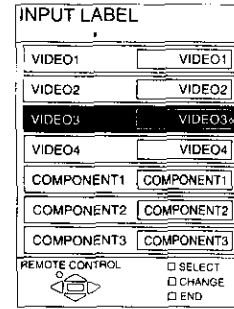
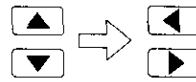


INPUT LABEL (Video input labels can be rewritten according to the connection of VCR, DVD, etc.)

1. Select the "INPUT LABEL" by pushing the Position Up "▲" or Down "▼" Button and access the "INPUT LABEL" Menu by pushing the "ACTION" Button.

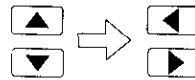


2. Push the Position Up "▲" or Down "▼" Button to select the desired input mode, and then push the Position Left "◀" or Right "▶" Button to change the display.



SELF ASPECT 4 : 3

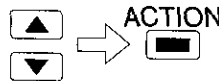
1. Select the "SELF ASPECT" by pushing the Position Up "▲" or Down "▼" Buttons, and set appropriate function by pushing the Position Left "◀" or Right "▶" Buttons.



Set to "NORMAL" if using the SELF ASPECT button function to view 4:3 images in an unchanged format. If you would like to view 4:3 images in "JUST" format, set to "JUST".

GEOMAGNETIC CORRECT (Adjust if the picture is tilted slightly due to the effects of geomagnetism.)

1. Select the "GEOMAGNETIC CORRECT" by pushing the Position Up "▲" or Down "▼" Button and Access the Adjusting mode by pushing the "ACTION" Button.



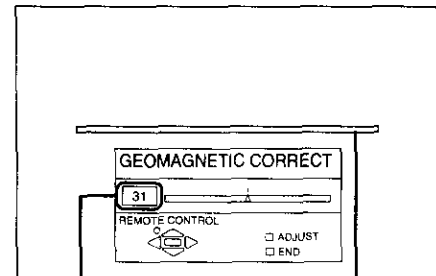
2. Push the Position Left "◀" or Right "▶" Button to adjust the picture tilt.



3. Push the "ACTION" Button to complete the adjustment.



- When the "ACTION" Button is pushed, a click will be heard and "DEGAUSSING" will appear on the screen. (The picture will become distorted for a moment.)
- When another click is heard, the display will disappear and the setting will be complete.



Adjustment value

Adjust so that the line is horizontal.






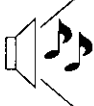

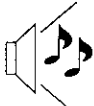
| Screen direction | Adjustment value guide |
|------------------|------------------------|
| North | Approx. 15 |
| East or west | Approx. 31 |
| South | Approx. 45 |

Note:

- (1) If the setting-up location or direction is changed, readjustment will be necessary.
- (2) If color distortion continues to appear after adjustment because the TV is being affected by magnetism from causes such as reinforced concrete, turn off the power and change the setting-up location. After turning the power back on, wait about 20 minutes and then repeat the adjustment.

Troubleshooting

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

| Symptoms | | Checks |
|---|--|--|
| Picture | Sound | |
|  Normal Picture |  No Sound | Volume (Check whether the mute function has been activated on the Remote Control.) Check speakers ON/OFF in Audio ADJ. Menu. |
|  No Picture |  No Sound | Not plugged into AC outlet Not switched on Contrast and Brightness/Volume setting (Check by pushing the Power Switch or Stand-by Button on the Remote Control.) |
|  No Color |  Normal Sound | Color controls set at minimum level. |
|  No Picture |  Normal Sound | PICTURE "OFF" (Refer to page 26) |

Specifications

Power Source

120 V AC, 50/60 Hz

Power Consumption

Normal use: 214 W (Maximum Current 3.3 A)

Stand-by condition: 0.35 W

CRT

34-inch, 16:9 aspect ratio

Screen size

29.36"(745.9 mm) (W) × 16.5"(419.5 mm) (H) × 33.68"(855.7 mm) (diagonal)

Operating conditions

Temperature: 34°– 104°F (0°– 40°C)

Humidity: 20% – 80% (non-condensing)

Connection terminals

| | | |
|--|---|--|
| AV INPUT 1-4 (INPUT 3 has no S-VIDEO terminal.) | VIDEO (Phono Jack Type) S-VIDEO (Mini DIN 4-pin) AUDIO L-R (Phono Jack Type × 2) | 1.0 Vp-p (75 Ω) Y: 1 Vp-p (75 Ω),C: 0.286 Vp-p (75 Ω) 0.5 Vrms |
| AV PROG. OUT | VIDEO (Phono Jack Type) S-VIDEO (Mini DIN 4-pin) AUDIO L-R (Phono Jack Type × 2) | 1.0 Vp-p (75 Ω) Y: 1 Vp-p (75 Ω),C: 0.286 Vp-p (75 Ω) 0.5 Vrms |
| TO AUDIO AMP | AUDIO L-R (Phono Jack Type × 2) | 0.5 Vrms |
| COMPONENT VIDEO INPUT1-3 | Y Pb/Pr AUDIO L-R (Phono Jack Type × 2) | 1.0 Vp-p (including synchronization) ± 0.35 Vp-p 0.5 Vrms |
| COMPONENT VIDEO PROG. OUT | Y Pb/Pr AUDIO L-R (Phono Jack Type × 2) | 1.0 Vp-p (including synchronization) ± 0.35 Vp-p 0.5 Vrms |

Specifications

Accessories Supplied

Remote control Transmitter TNQE192
Battery (2 × R6 (AA) Size)
Warranty

Dimensions (W × D × H)

34.4"(874mm) × 23.15"(588mm) × 25.1"(637mm)

Weight (Mass)

180.8 lb.(82kg) Net

Note:

Design and Specifications are subject to change without notice. Weight and Dimensions shown are approximate.

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Customer's Record

The model number and serial number of this product can be found on its rear cover. 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 CT-34WDM60 Serial Number _____

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