LG

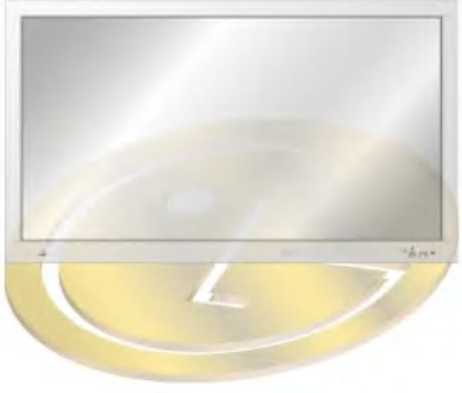
PLASMA MONITOR

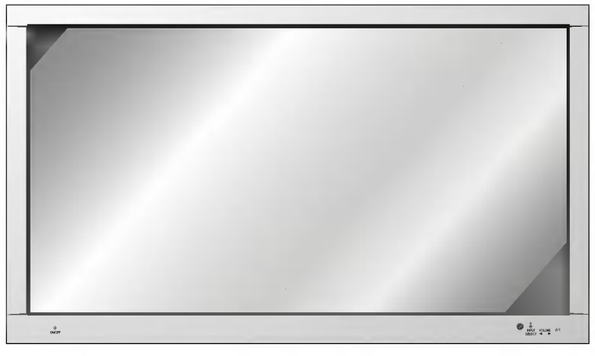
Please read this owner's manual carefully before operating the Monitor.
Retain it for future reference.
Record model number and serial number of the Monitor.
See the label attached on the back of the Monitor and quote this information to your dealer when you require service.

Model number :
Serial number :

MT-42PZ11/A/B/G/K/S
MZ-42PZ13/A/B/G/K/S
MT-42PZ15/A/B/G/K/S
MZ-42PZ17/A/B/G/K/S
MT-42PZ17/A/B/G/K/S
OWNER'S MANUAL

P/NO : 3828VA0305D
(NF01DC, 067M TX, 373-026H)





What is a Plasma Display ?

If voltage is inputted to gas in glass panels, ultraviolet rays is outputted and fused with a fluorescent substance. At this moment, light is emitted. A Plasma Display is a next generation flat Display using this phenomenon.

160° - Wide angle range of vision

A Plasma Display provides more than 160° angle range of vision so that you can get a picture without distortion from any direction.

Easy installation

A Plasma Display is much lighter and smaller than other same class products so that you can install the Plasma Display at the desired place.

Big screen

The screen of a Plasma Display is 42" so that you can get vivid experience as if you are in a theater.

Multimedia Plasma Display

A Plasma Display can be connected with a computer so that you can use it as a screen for conference, game, internet and so on.

The explanation about coloured dots may be present on PDP screen

The PDP which is the display device of this product is composed of 0.9 to 2.2 million cells and a few cell defects can occur in the manufacture of the PDP. Several coloured dots visible on the screen would be acceptable, in line with other PDP manufacturers and would not mean that the PDP is faulty. We hope you will understand that the product which corresponds to this standard is regarded as acceptable. It means that it could not be changed or refunded.
We promise that we'll do our best to develop our technology to minimize the cell defects.

WARNING
This is Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

WARNING
TO REDUCE THE RISK OF FIRE AND ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

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After reading this manual, keep it in the place where the user can always contact easily.

Safety Instructions

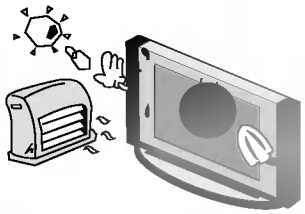
- **It is recommended that this product only be used at an altitude of less than 6562 feet (2000m) to get the best quality picture and sound.**

Indoor Installation

WARNING

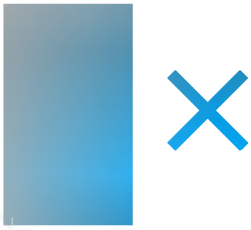
Do not place the Monitor in direct sunlight or near heat sources such as heat registers, stove and so on.

- This may cause a fire.



NOTES

This plasma display is designed to be mounted horizontally (wide viewing).

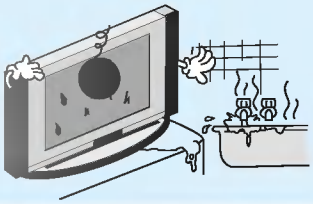


Outdoor Installation

WARNING

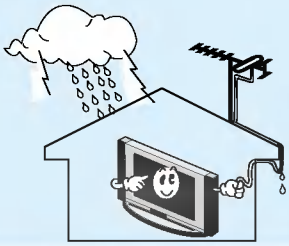
Do not use the Monitor in damp place such as a bathroom or any place where it is likely to get wet.

- This may cause a fire or could give an electric shock.



Bend antenna cable between inside and outside building to prevent rain from flowing in.

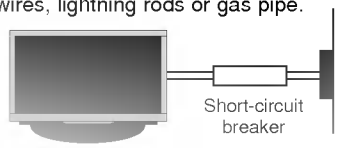
- This may cause water damaged inside the Monitor and could give an electric shock.



WARNING

Earth wire should be connected.

- If the earth wire is not connected, there is possible a danger of electric shock caused by the current leakage.
- If grounding methods are not possible, a separate circuit breaker should be employed and installed by a qualified electrician.
- Do not connect ground to telephone wires, lightning rods or gas pipe.



NOTES

Never touch the power plug with a wet hand

- This may cause an electric shock.

* Safety instructions have two kinds of information, and each meaning of it is as below.

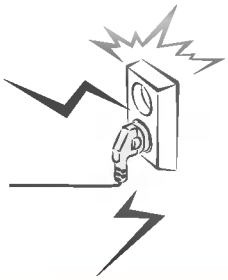
⚠WARNING **The violation of this instruction may cause serious injuries and even death.**

⚠NOTES **The violation of this instruction may cause light injuries or damage of the product.**

⚠ **Take care of danger that may happen under specific condition.**

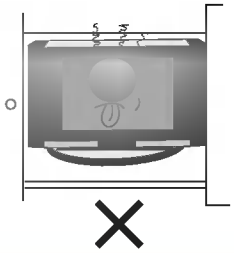
⚠NOTES

Disconnect from the mains and remove all connections before moving.



Do not place the Monitor in a built-in installation such as a bookcase or rack.

- Ventilation required.



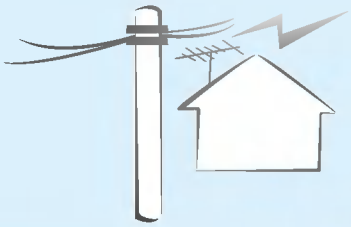
When installing the Monitor on a table, be careful not to place the edge of its stand.

- This may cause the Monitor to fall, causing serious injury to a child or adult, and serious damage to the Monitor.

⚠NOTES

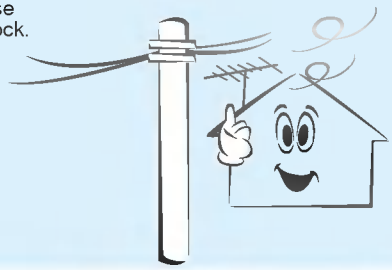
Do not place an outside antenna in the vicinity of overhead power lines or other electric light or power circuits.

- This may cause an electric shock.



There should be enough distance between an outside antenna and power lines to keep the former from touching the latter even when the antenna falls.

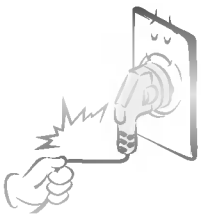
- This may cause an electric shock.



⚠NOTES

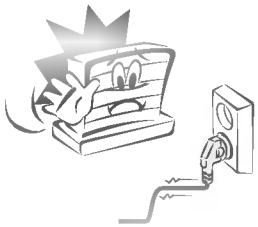
Do not pull the cord but the plug when unplugging.

- This may cause a fire.



Ensure the power cord doesn't trail across any hot objects like a heater.

- This may cause a fire or an electric shock.



Do not plug when the power cord or the plug is damaged or the connecting part of the power outlet is loose.

- This may cause a fire or an electric shock.

Safety Instructions

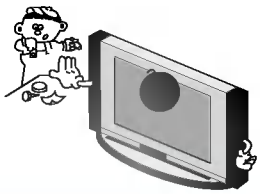
WARNING

Do not place anything containing liquid on top of the Monitor.

- This may cause a fire or could give an electric shock.

Do not insert any object into the exhaust vent.

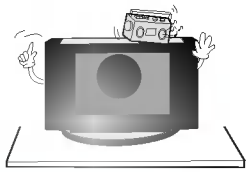
- This may cause a fire or could give an electric shock.



WARNING

Do not place heavy objects on the Monitor.

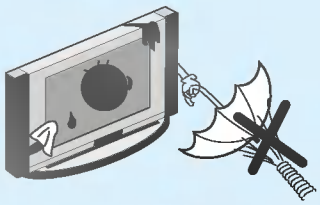
- This may cause serious injury to a child or adult.



WARNING

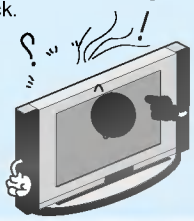
Do not use water the Monitor while cleaning.

- This may cause damaged the Monitor or could give an electric shock.



In case of smoke or strange smell from the Monitor, switch it off ,unplug it from the wall outlet and contact your dealer or service center.

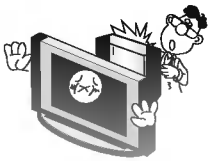
- This may cause a fire or could give an electric shock.



WARNING

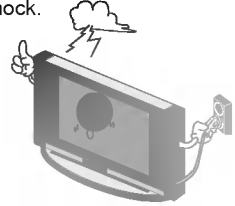
Do not attempt to service the Monitor yourself. Contact your dealer or service center.

- This may cause damaged the Monitor or could give an electric shock.



During a lightning thunder, unplug the Monitor from the wall outlet and don't touch an antenna cable.

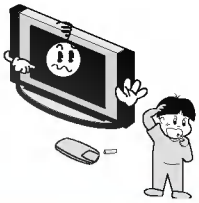
- This may cause damaged the Monitor or could give an electric shock.



NOTES

Dispose of used batteries carefully to protect a child from eating them.

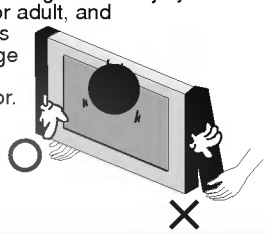
- In case that it eats them, take it to see a doctor immediately.



NOTES

When moving the Monitor assembled with speakers do not carry holding the speakers.

- This may cause the Monitor to fall, causing serious injury to a child or adult, and serious damage to the Monitor.

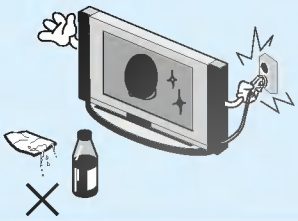


Avoid having a fixed image remain on the screen for a long period of time. Typically a frozen still picture from a VCR, 4:3 picture format or if a CH label is present; the fixed image may remain visible on the screen.

NOTES

Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.

- This may cause damaged the Monitor or could give an electric shock.



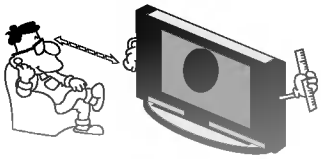
Contact the service center once a year to clean the internal part of the Monitor.

- Accumulated dust can cause mechanical failure.

NOTES

The distance between eyes and the screen should be about 5 ~ 7 times as long as diagonal length of the screen.

- If not, eyes will strain.

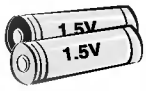


Unplug the Monitor from the wall outlet when it is left unattended and unused for long periods of time.

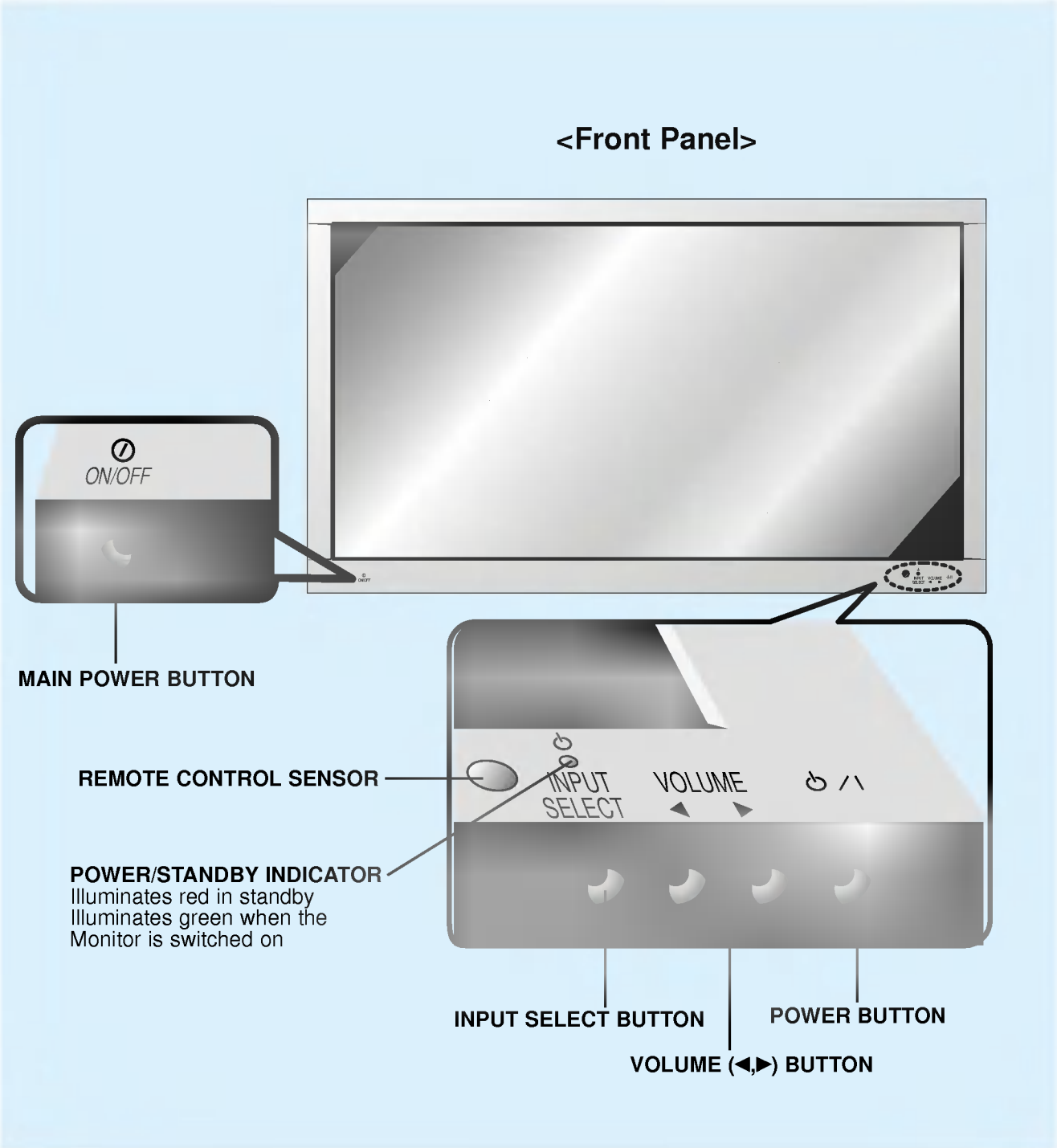
- Accumulated dust may cause a fire or an electric shock from deterioration or electric leakage.

Only use the specified batteries.

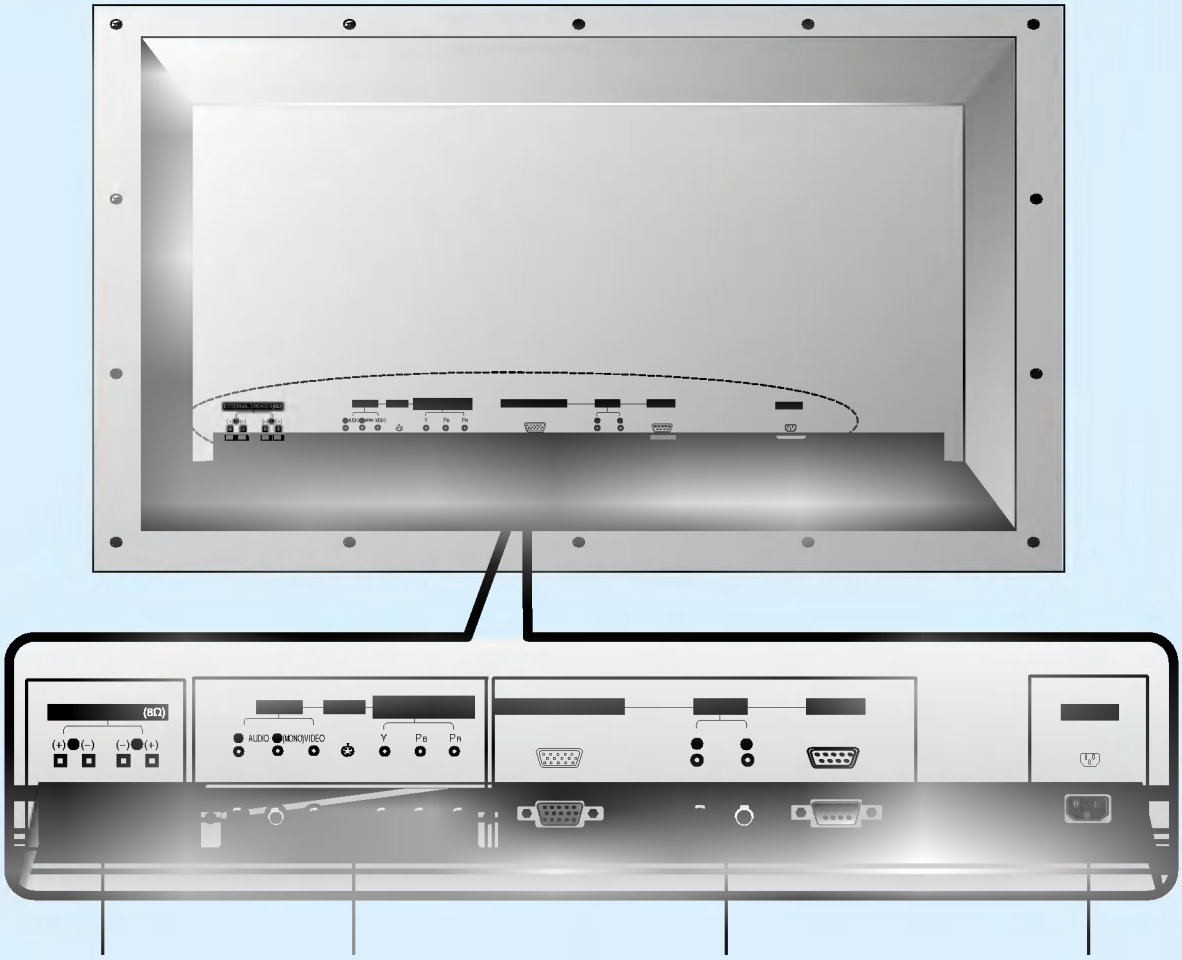
- This make cause damaged the Monitor or could give an electric shock.



Controls of the Monitor



<Back Panel>



EXTERNAL SPEAKER (8Ω) KNOBS

AV INPUT / COMPONENT (480i/480p) DVD INPUT SOCKETS

▶ The Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models. Contact your dealer for buying this optional item.

RGB PC INPUT (VGA/SVGA/XGA) / AUDIO INPUT / RS-232C SOCKET

POWER INPUT SOCKET

This Monitor operates on an AC mains supply, the voltage is as indicated as inside back cover of this manual. Never apply DC power to the Monitor.

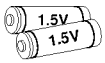
Accessories

D-sub 15 pin cable

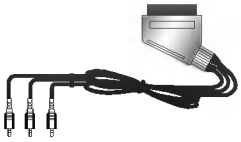
Power cord

Remote control handset

Owner's Manual



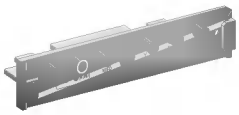
Alkaline batteries
(optional)



Phone scart cable
(optional)

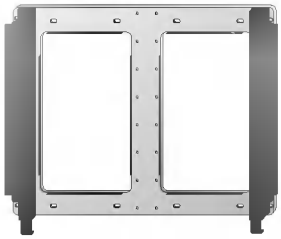
Optional Extras

- Optional extras can be changed or modified for quality improvement without any notification new optional extras can be added.
- Contract your dealer for buying these items.



AP-42EA21 (Interface board)

AP-42WA20 series
(Tilt wall mounting bracket)

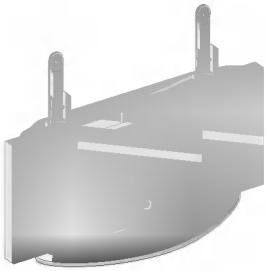


AP-42WA10 series
(Wall mounting bracket)

Optional Extras

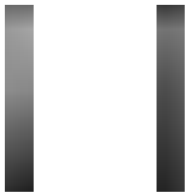
- Optional extras can be changed or modified for quality improvement without any notification new optional extras can be added.
- Contract your dealer for buying these items.

AP-42CA10 series
(Ceiling mounting bracket)



AP-42FA10 series
(Floor type stand)

AP-42DA10 series
(Desktop stand)



AP-42SA10 series
(Speakers)

AP-42SA10D series
(Speaker stand)

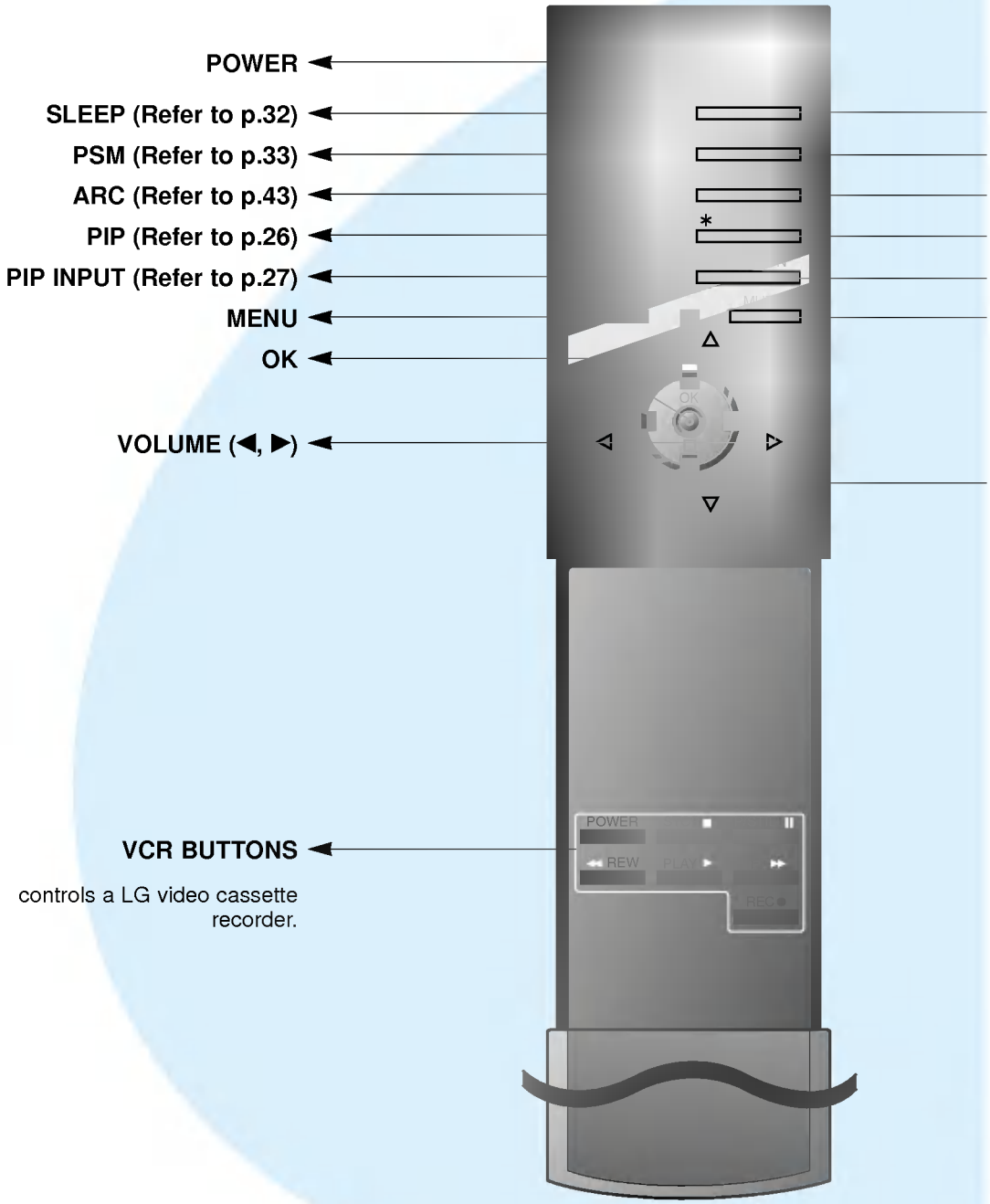
AP-42SA10F series
(Floor type speaker stand)

Video cables

Audio cables

Controls of the remote control

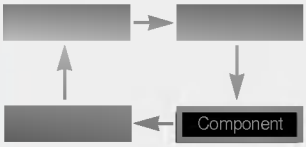
- When using the remote control aim it at the remote control sensor of the Monitor.



- **INPUT SELECT**
- **SSM (Refer to p.38)**
- **STILL (Refer to p.40)**
- No function
- **POSITION (Refer to p.27)**
- **MUTE**
  switches the sound on or off.
- **▲ / ▼**
  selects a menu item.

INPUT SELECT button on the remote control

Each press of this button changes the mode as shown below.



Video, **S-Video**, **Component** :
These modes are selected when the Interface board (not supplied) is installed.

► The Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models.

Using the remote control

- Open the battery compartment cover on the back side and insert the batteries with correct polarity.

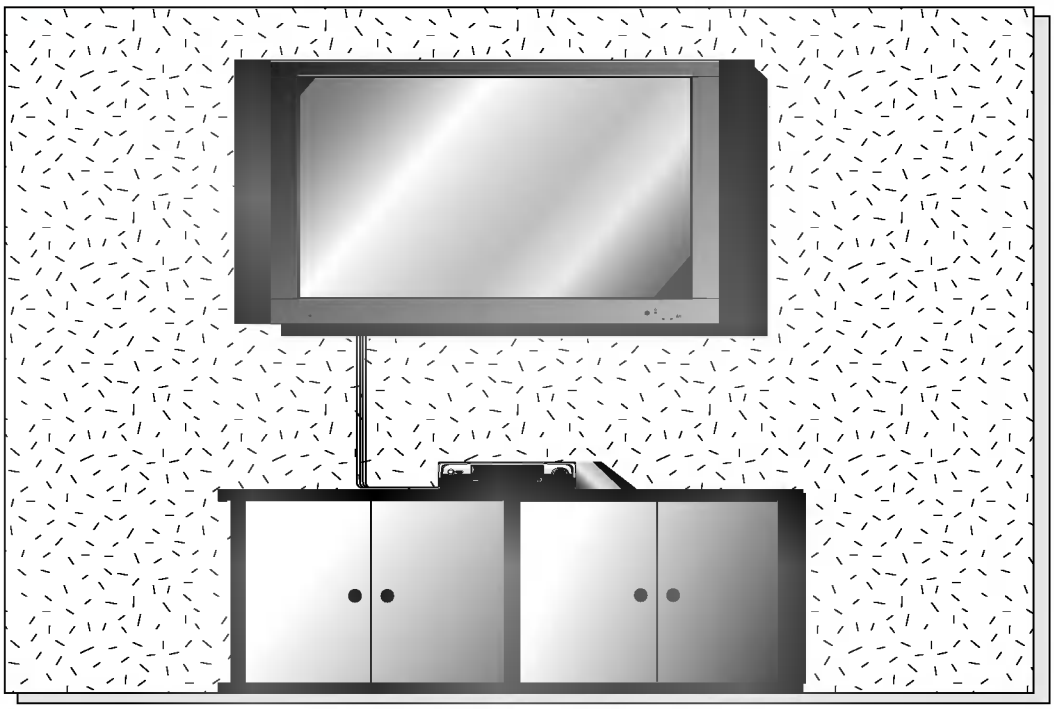
- Apply two 1.5V alkaline batteries of AAA type. Don't mix the used batteries with new batteries.

- Install the batteries with the correct polarities.

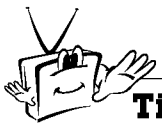
Monitor Installation

- **The Monitor can be installed in various ways such as wall mounting type, desktop type, etc..**

Wall Mount Installation



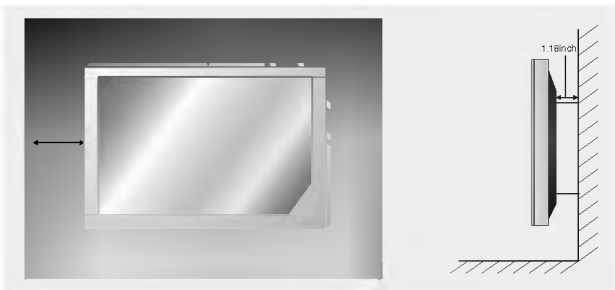
- The monitor can be installed on the wall as the picture above.
  (For further information, refer to '(Tilt) wall mounting bracket Installation and Setup Guide'.)



Tips

- Install this monitor only in a location where adequate ventilation is available.

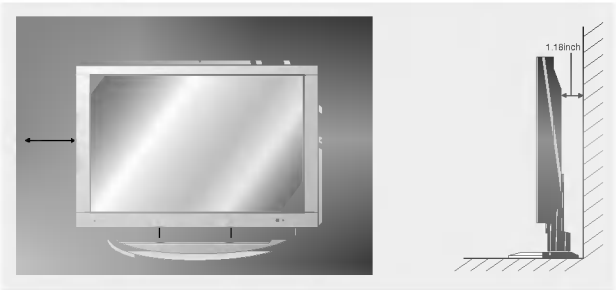
a. (Wall mount minimum allowable clearances for adequate ventilation)



Desktop pedestal installation

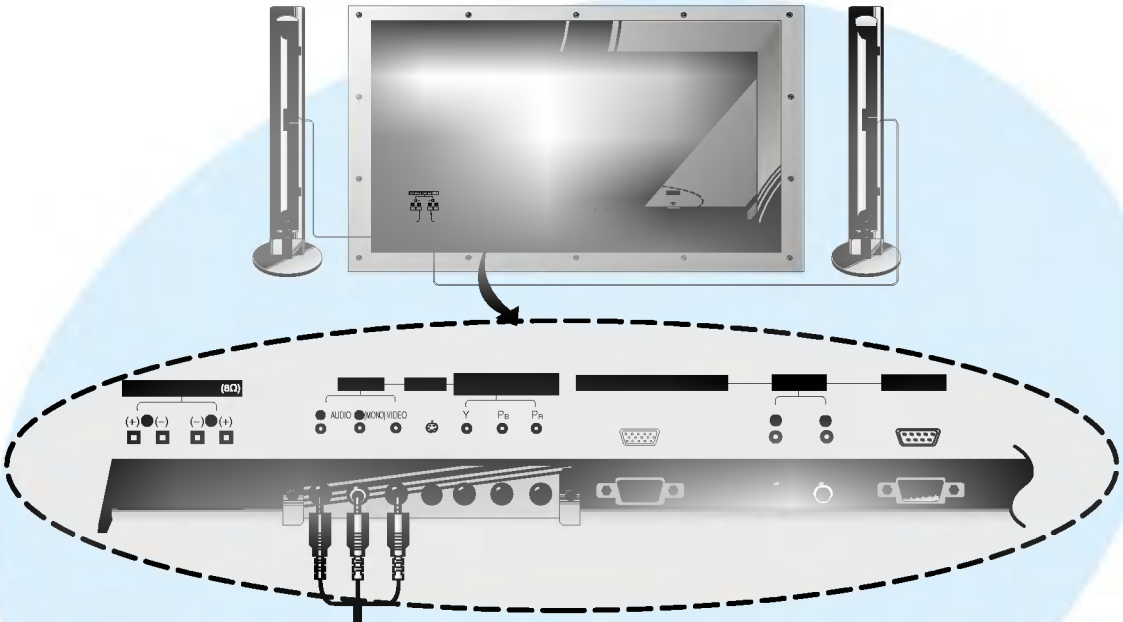
- The Monitor can be installed on a desk as shown above.
  (For further information, refer to 'Desktop stand Installation and Setup Guide'.)

b. (Pedestal mount minimum allowable clearances for adequate ventilation)

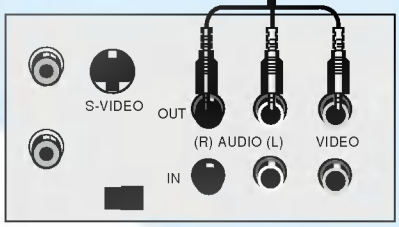


Watching VCR

- When connecting the Plasma Monitor with external equipments, match the colours of connecting ports (Video - yellow, Audio(L) - white, Audio(R) -red).
- If you have a mono VCR, connect the audio cable from the VCR to the AUDIO(L/MONO) input of the Plasma Monitor.
- If you connect an S-VIDEO VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.
- Avoid having a fixed image remain on the screen for a long period of time. Typically a frozen still picture from a VCR, 4:3 picture format or if a CH label is present;
  the fixed image may remain visible on the screen.



Back panel of the Monitor



<Back panel of VCR>

To watch VCR

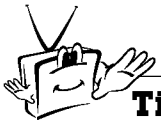
(When the Interface board is installed.)

► The Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models.

INPUT SELECT

1 Press **INPUT SELECT** button on the remote control and select **Video**. (When connecting with S-Video, select the **S-Video**.)

2 Insert a video tape into the VCR and press the **PLAY** button on the VCR. See VCR owner's manual.

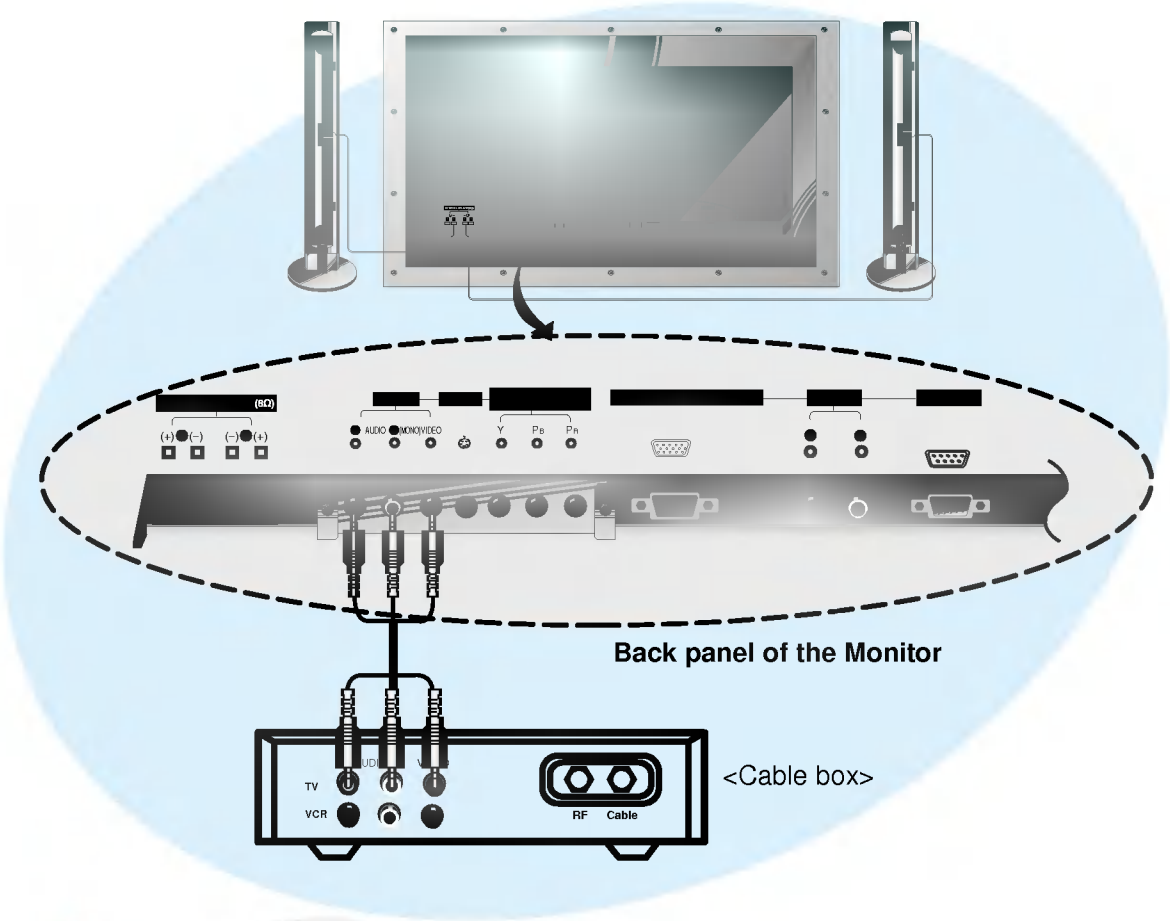


Tips

- To avoid picture noise (interference), leave an adequate distance between the VCR and monitor.

Watching Cable TV

- **After subscribing to a cable TV service from a local provider and installing a converter, you can watch cable TV programming.**



Back panel of the Monitor

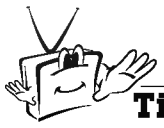
To watch cable TV (When the Interface board is installed.)

► The Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models.

1 Press **INPUT SELECT** button on the remote control and select **Video**.

INPUT SELECT

2 Tune to cable service provided channels using the cable box.

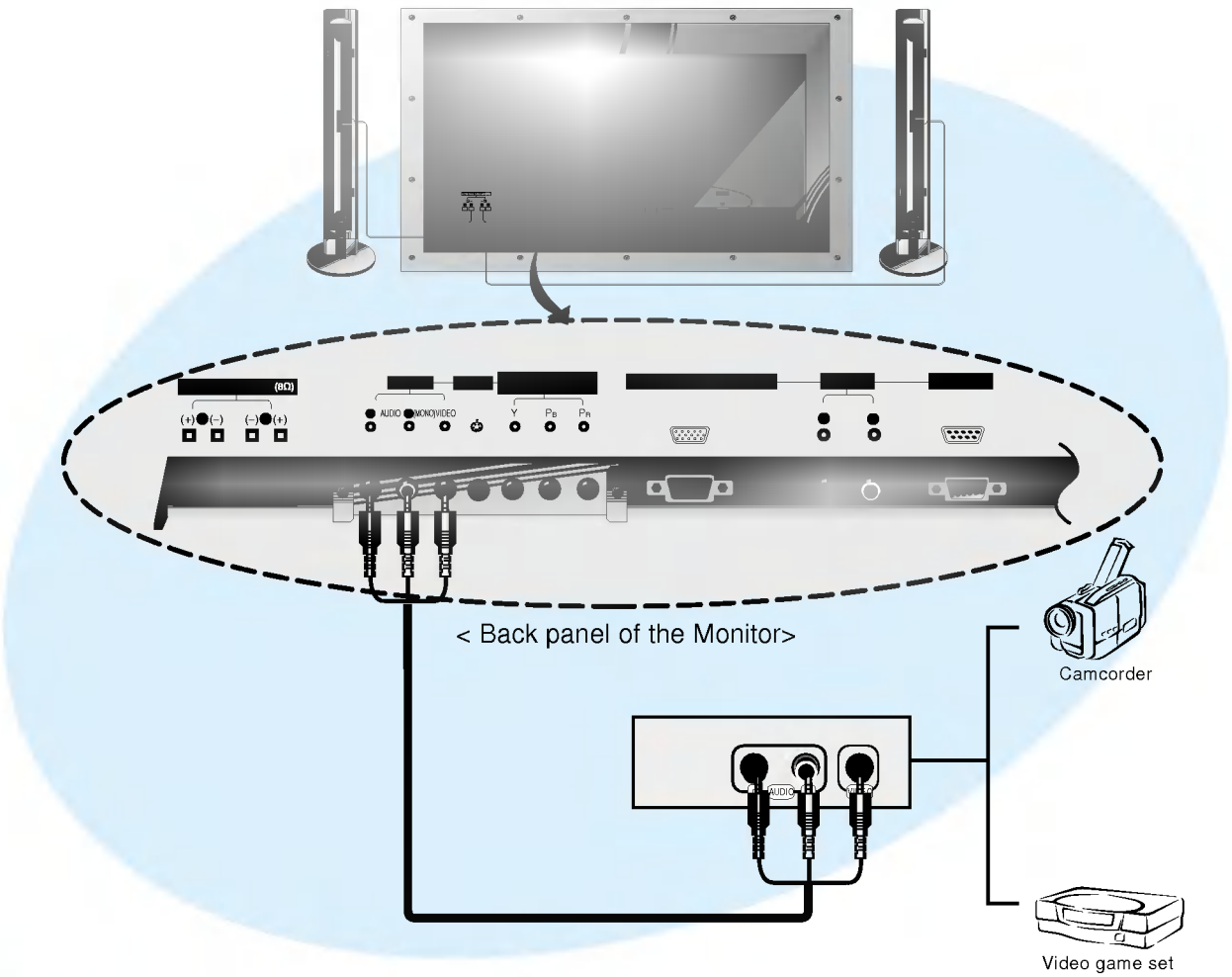


Tips

- For further information regarding cable TV service, contact your local cable TV service provider(s).

Watching external AV source

- **When connecting the Plasma Monitor with external equipments, match the colours of connecting ports.**



To watch external AV source (When the Interface board is installed.)

► The Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models.

1 Press **INPUT SELECT** button on the remote control of the monitor to select **Video**.

INPUT SELECT

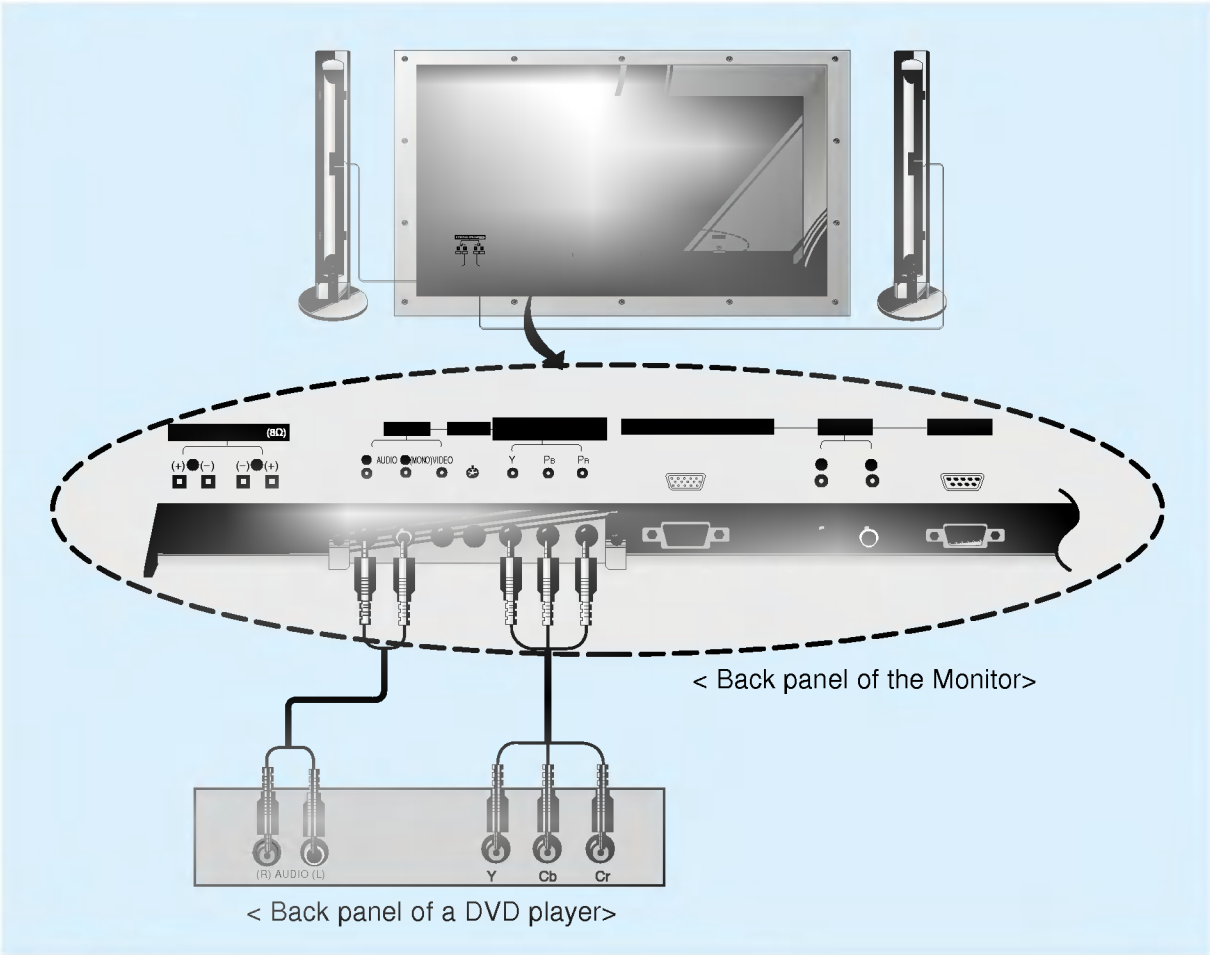
2 Operate the corresponding external equipment.

Watching DVD

How to connect (When the Interface board is installed.)

► The Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models.

- Connect DVD video inputs to Y, PB, PR of COMPONENT (480i/480p) (DVD INPUT) and audio inputs to Audio sockets of AV INPUT.



How to use

(When the Interface board is installed.)

► The Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models.

- Press **INPUT SELECT** button on the remote control of the monitor to select **Component**.
- Try this after turning on the DVD player.

- **Component Input ports**
  You can get better picture quality if you connect DVD player with component input ports as below.

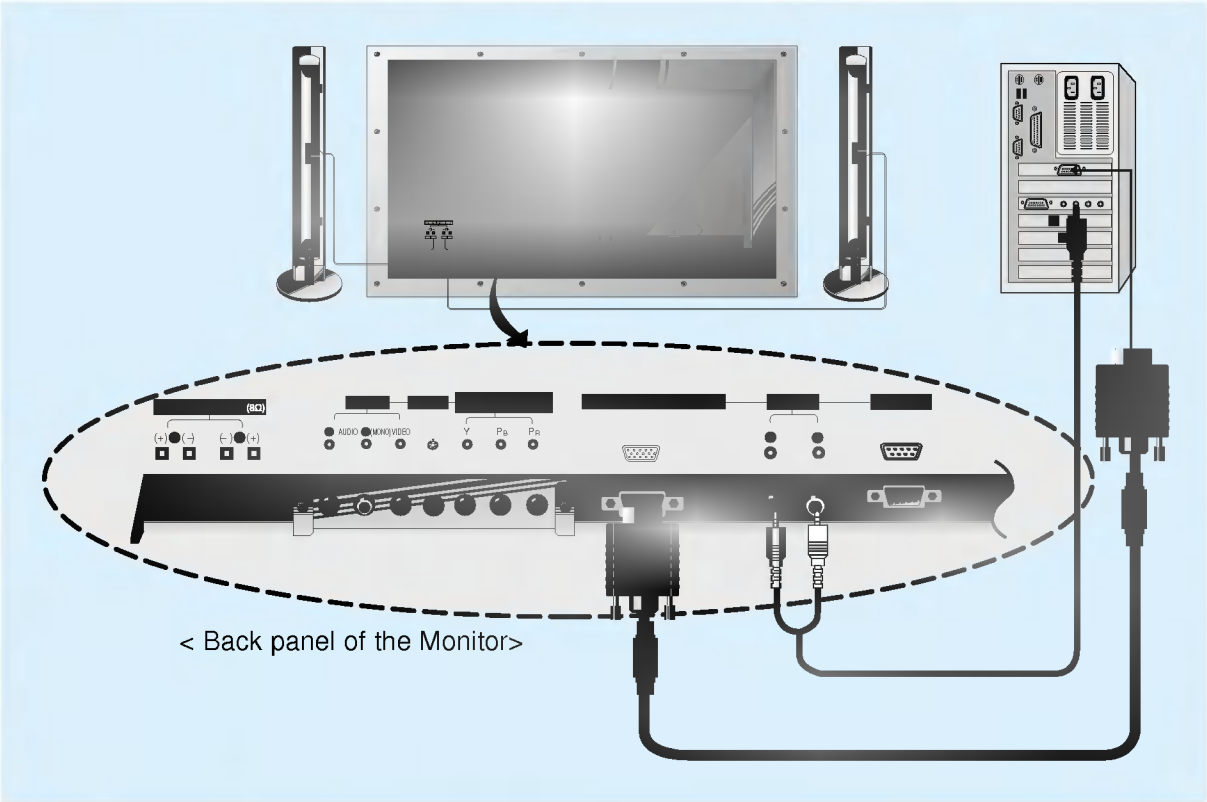
Component ports of the Monitor	Y	PB	

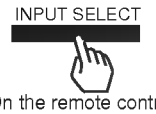
Video output ports of DVD player	Y Y Y Y	Pb B-Y Cb PB	Pr R-Y Cr PR

Connecting the PC

- **You can enjoy vivid picture and sound with connecting a PC with the Monitor.**

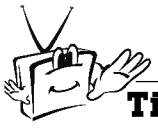
- If the resolution of the the PC is over SXGA, there will be no picture on the Monitor.
- Connect the signal cable from the monitor output port of the PC to the RGB INPUT(VGA/SVGA/XGA) port of the Monitor.
- Connect the audio cable from the PC to the Audio ports of the Monitor. (Audio cables not included with the Monitor)
- **In case of using a sound card adjust PC sound properly**.
- To setup this monitor in your PC windows environment, select Normal, Standard or Default monitor. This monitor does not support Plug and Play functionality.





<On the remote control>

- Press **POWER** button on the PC and press **ON/OFF** button on the Monitor. After this press ⏻/I button on the Monitor or press **POWER** button on the remote control of the monitor.
- Press **INPUT SELECT** button on the remote control to select **RGB**.
- Set the resolution of PC under XGA (1024x768). (Refer to page 21.)

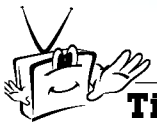


Tips

- To avoid burning an image on the Monitor screen, don't have a still picture on the screen for a long period time.
- If the resolution of the PC is over SXGA, connect the PC to the RGB INPUT(VGA/SVGA/XGA) port of the Monitor after changing the resolution of the PC.

Displayable Monitor Specification

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640x350	31.468	70.09
	37.861	85.08
640x400	31.469	70.08
	37.927	85.03
640x480	31.469	59.94
	35.000	66.66
	37.861	72.80
	37.500	75.00
	43.269	85.00
	45.913	90.03
	53.011	100.04
	64.062	120.00
800x600	35.156	56.25
	37.879	60.31
	48.077	72.18
	46.875	75.00
	53.674	85.06
	56.000	90.00
	64.016	100.00
832x624	49.725	74.55
1024x768	48.363	60.00
	56.476	70.06
	60.023	75.02
	68.677	84.99



Tips

- Synchronization input form : separate
- There might be a noise according to any resolution, contrast or brightness in PC mode. Then change the PC mode into other resolution or adjust brightness and contrast on the menu until the picture is clean.

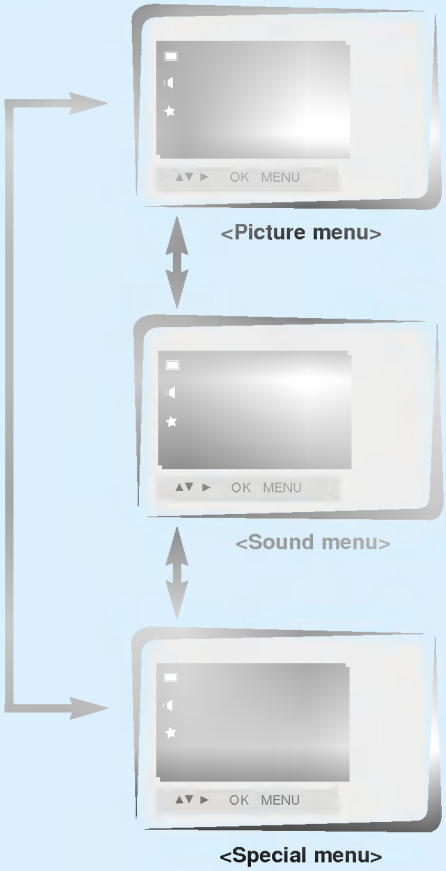
Function checking in PC mode

- Select **RGB** input source.
- PIP function is worked when the interface board is installed.
  Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models.

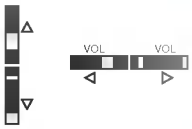
1 Press the **MENU** button.

2 Press the ▲ / ▼ button.

- Each time you press this button you can see menus as below.



- Only adjust **Colour Temperature** function in MT-42PZ15 series / MZ/T-42PZ17 series models.



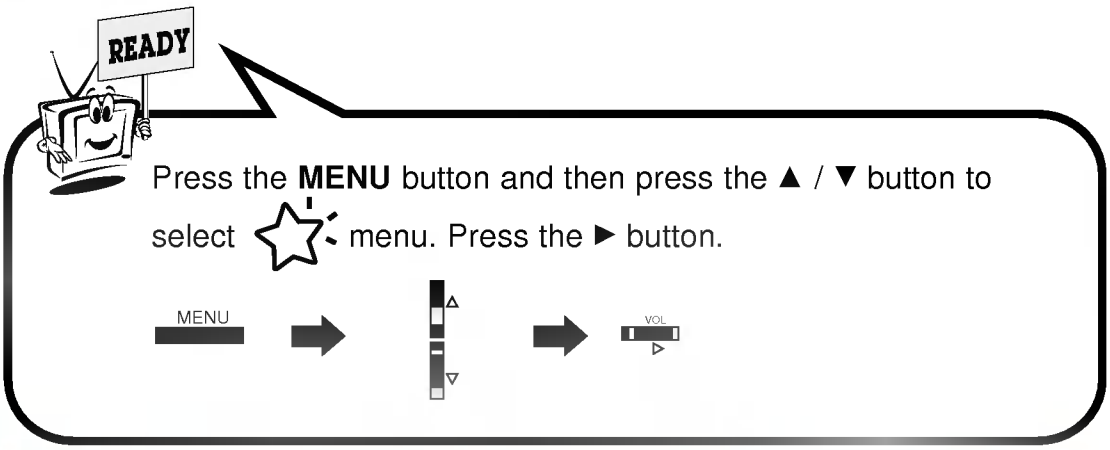
3 Press the ► button and then press the ▲ / ▼ or ◄ / ► button to select a function you want to use.

- Press the **OK** button to exit.

Adjusting in PC mode

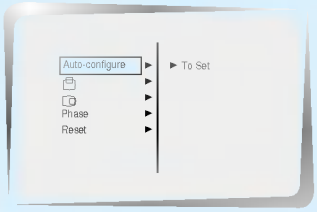
Auto configure

- Select **RGB** input source.
- Automatically adjusts picture position and eliminates any image shaking.
- When watching PIP, **Screen** option is not available in ☆ menu.



1 Press the ▲ / ▼ button to select **Screen** and then press the ▶ button.

2 Press the ▲ / ▼ button to select **Auto-configure** and then press the ▶ button.



- When **Auto.configure** has finished, "**OK**" will be shown on screen.
- If the position of the image is incorrect, try Auto adjustment again.

3 If picture needs to be adjusted more after auto adjustment, adjust ⊡ ⊟,and **Phase**.

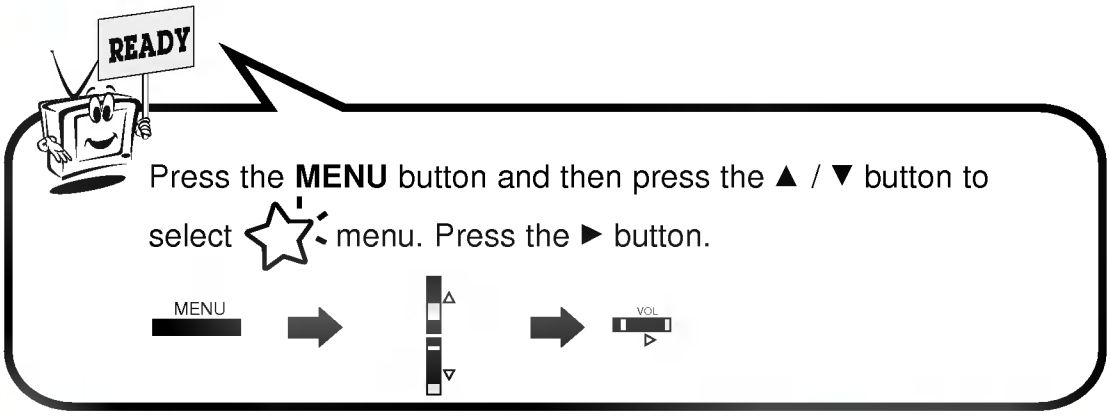
Tips

- If the image is still not correct, your Monitor is functioning properly but needs further adjustment.

Adjusting in PC mode

Adjusting horizontal / vertical position

- **Only adjust and in component 480i/480p.**



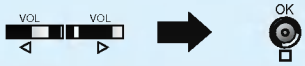
1 Press the ▲ / ▼ button to select **Screen** and then press the ▶ button.

2 Press the ▲ / ▼ button to select or and then press the ▶ button.

- Select for vertical position adjustment.
- Select for horizontal position adjustment.

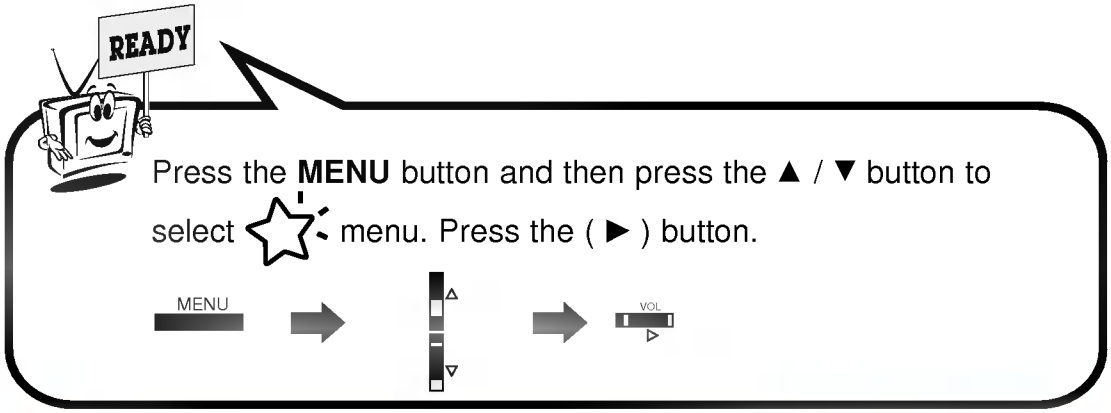
3 Press the ◀ / ▶ button to adjust until you get desired horizontal or vertical position and then press the **OK** button.

- The adjustment range of is -50 ~ +50.
  The adjustment range of is -100 ~ +100.
- Based on the input mode, the adjustment range of or may change.
- Based on the VGA card, the adjustment range of may be out of -100 ~ +100 after auto configure.
- Based on the input signal, the position of the picture may not change even though you have adjusted the horizontal or vertical position with this function.

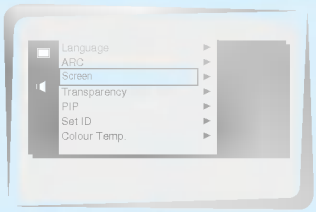


Adjusting phase

- **If the picture isn't clear after auto adjustment and especially that characters are still trembling, then adjust the picture phase manually.**
- **When watching PIP, Screen option is not available in Special menu.**



1 Press the ▲ / ▼ button to select **Screen** and then press the ► button.



2 Press the ▲ / ▼ button to select **Phase** and then press the ► button.

3 Press the ◄ / ► button to adjust phase and then press the **OK** button.

- The adjustment range of **Phase** is 0 ~ 63.

Initializing

- To initialize the adjusted value, select **Reset** with the ▲ / ▼ button and then press the ► button.

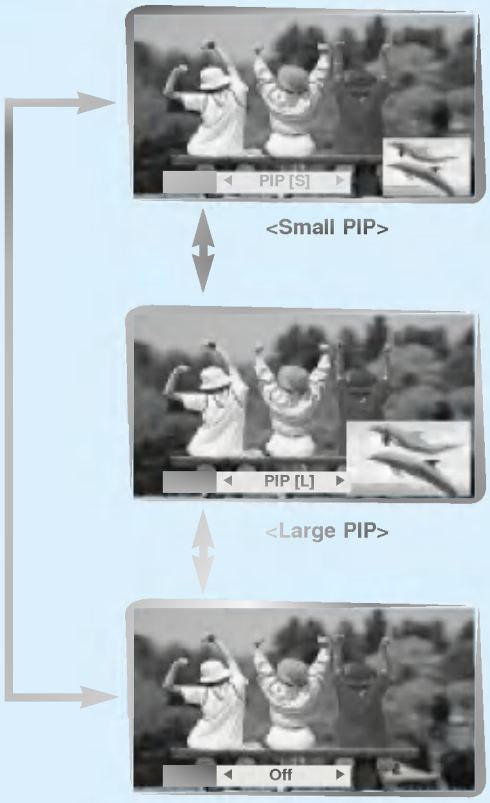
PIP function

- Select **RGB** input source before pressing PIP.
- This function works only when the interface board is installed.
  Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models.
- This function works only in the following resolution;
  640x480, 800x600, 1024x768 (only in Vertical frequency 60 Hz)
- When you select RGB for main picture in PIP, you can watch video, cable TV or DVD for sub picture.
- Color of main picture may be different from sub picture's in PIP mode.
- If input source for main picture is changed while in PIP, sub picture will disappear.
- When watching PIP, **Screen** option is not available in ☆ menu.

Watching the PIP (Picture in Picture)

Press the **PIP** button.

- Each time you press **PIP** or ◄ / ► button, you can change the PIP size as below.



Selecting the input signal

Press the **PIP INPUT** button in PIP mode.

- Each time you press **PIP INPUT** button, you toggle **Video**, **S-Video** and **Component**.

  Component source only works in 480i mode.

Moving the Sub picture

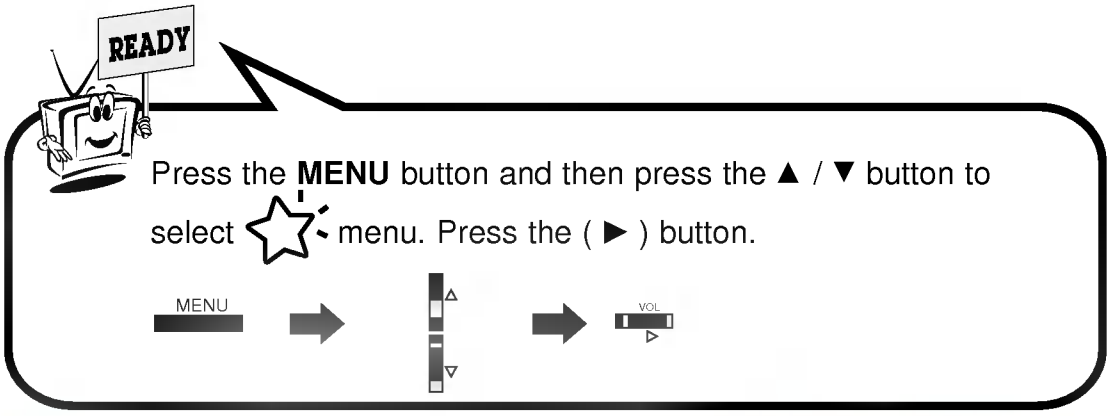
Press the **POSITION** button in PIP mode.

- Each press of the **POSITION** button will change the position of the sub picture on the screen as shown below.

PIP function

Selecting PIP sound options

- This function works only in the following resolutions;
  640x480, 800x600, 1024x768 (only in Vertical frequency 60 Hz)
- This function is worked when the interface board is installed.
  Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models.
- To use this function, connect PC video port to RGB PC INPUT(VGA/SVGA/XGA) socket and connect PC audio port to AUDIO INPUT.
- **Sound Select** is always selected **Sound[M]** regardless of prior sound choice.



1 Press the ▲ / ▼ button to select **PIP** and then press the ► button.

2 Press the ▲ / ▼ button to select **Sound Select** and then press the ► button.

3 Press the ▲ / ▼ button to select **Sound [M]** or **Sound [S]** and then press the **OK** button.

Tu

- When using the remote control, aim it at its sensor on the Monitor.

1. Connect power cord correctly.

2. Press the **ON/OFF** button on the Monitor. At this moment, the Monitor is switched to standby mode. Press the ⏻/I or **INPUT SELECT** button on the Monitor or press the **POWER** or **INPUT SELECT** button on the remote control and then the Monitor will be switched on.

1. **If the Monitor is turned off with the ⏻/I button on the Monitor**

   Press the ⏻/I or **INPUT SELECT** button on the Monitor or press the **POWER** or **INPUT SELECT** button on the remote control and then the Monitor will be switched on.

2. **If the Monitor is turned off with the ON/OFF button on the Monitor**
   - Press the **ON/OFF** button on the Monitor to turn on the Monitor.

3. **If the Monitor is turned off with the remote control and also the ON/OFF button on the Monitor**
   - Press the **ON/OFF** button on the Monitor and then press the ⏻/I or **INPUT SELECT** button on the Monitor or press the **POWER** or **INPUT SELECT** button on the remote control and then the Monitor will be switched on.

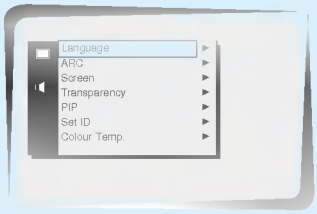
Tips

- **Adjusting volume level**
  Volume(▶) button increases the sound and volume(◀) button decreases the sound.

Selectin

Press the **MENU** button and then press the ▲ / ▼ button to select menu. Press the ► button.

1 Press the ▲ / ▼ button to select **Language** and then press the ► button.



2 Press the ▲ / ▼ button to select the desired language.

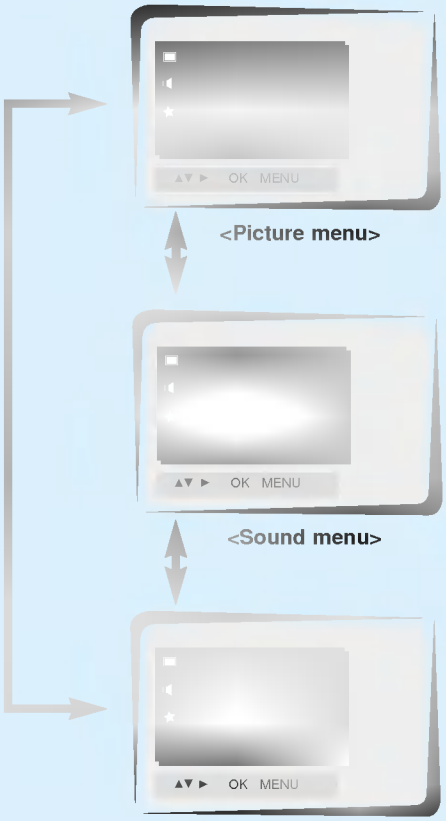
3 Press the **OK** button.

- **Select VIDEO input source.**
- **These function are worked when the interface board is installed.**
  Interface board (AP-42EA21) is not equipped on MZ/T-42PZ13/17 series models.

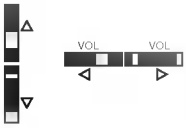
1 Press the **MENU** button.

2 Press the ▲ / ▼ button.

- Each time you press this button you can see menus shown below.

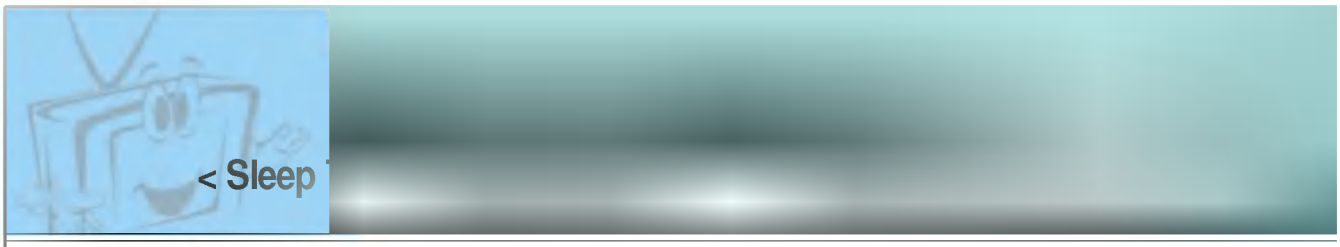


- Only adjust **Colour Temperature** function in MT-42PZ15 series / MZ/T-42PZ17 series models.

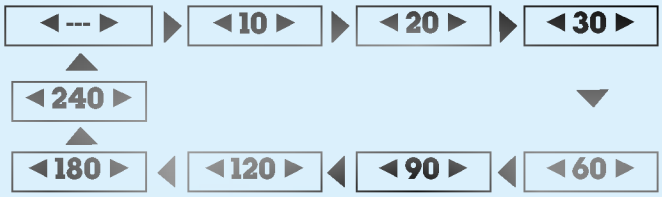


3 Press the ► button and then press the ▲ / ▼ or ◄ / ► button to select a function you want to use.

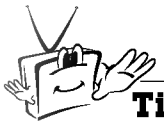
- Press the **OK** button to exit.



Press the **SLEEP** button to set sleep time.
Each time you press **SLEEP** button, the next preset setting time is changed as shown below.



- To release sleep time setting, press the **SLEEP** or ◄ / ► button repeatedly to select ◄ --- ►.
- '⚠⏻ **1**' is displayed, one minute before the Monitor is due to switch off.



Tips

- When the sleep time you want is displayed on the screen, don't press the **SLEEP** button. After 20 seconds, the screen display disappears and sleep time is set.
- To check remaining sleep time after setting, press the **SLEEP** button just once.
- If you turn the Monitor off after setting the sleep timer, the setting is erased. The sleep timer will then have to be set again.

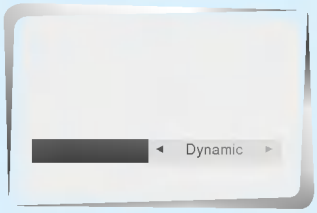
< Use PSM to

- This function is not available in RGB, PIP.

PSM (Picture Status Memory)

1 Press the **PSM** button.

2 Press the **PSM** or ◄ / ► button to select your desired picture condition.

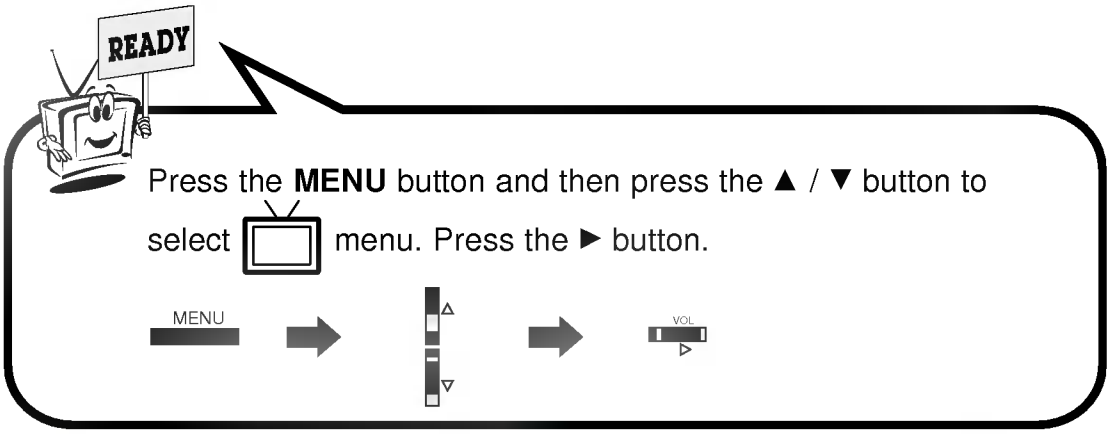


- Each press of ◄ / ► button changes the screen display as shown below.

- You can also select **Dynamic**, **Mild** or **User** in the **Picture** menu.
- The picture **Dynamic**, **Mild** and **User** are programmed for good picture reproduction at the factory and cannot be changed.

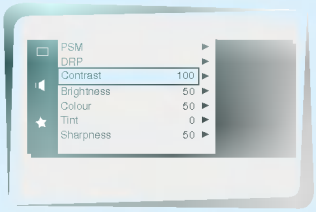
Adju

- **PIP inset settings are not adjustable.**



1

Use the ▲ / ▼ button to select **Contrast** and then press the ► button.
(to adjust contrast setting)



- Adjust **Brightness**, **Colour**, **Tint** and **Sharpness** in the same way.

2

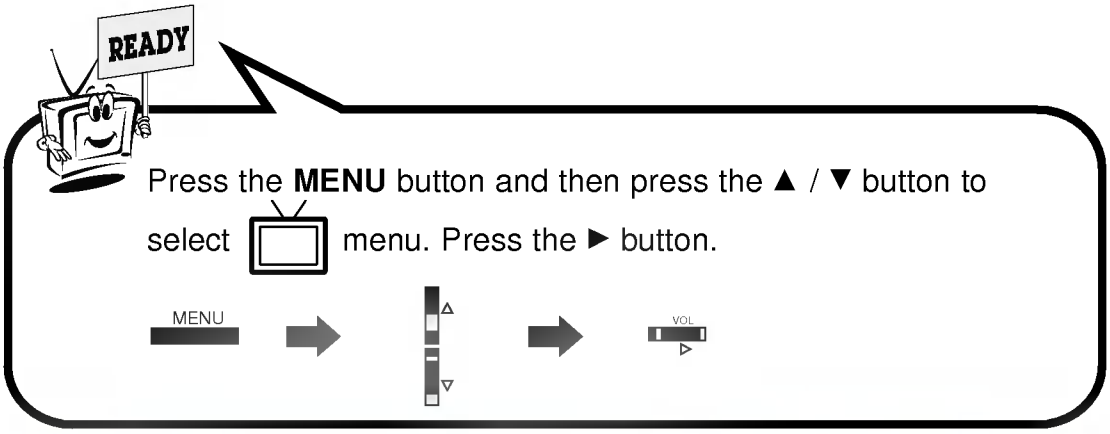
Use the ◄ / ► button to make appropriate adjustments and then press the **OK** button.

- Press the ▲ / ▼ button to select other items.

DRP (Digital Reality Picture)

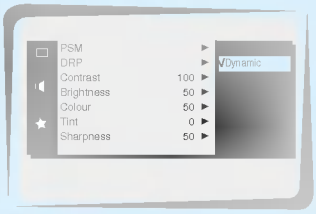
< DRP allows you to select Clear or Soft for your picture appearance >

- **This function works in video, component 480i mode.**



1 Press the ▲ / ▼ button to select **DRP** and then press the ► button.

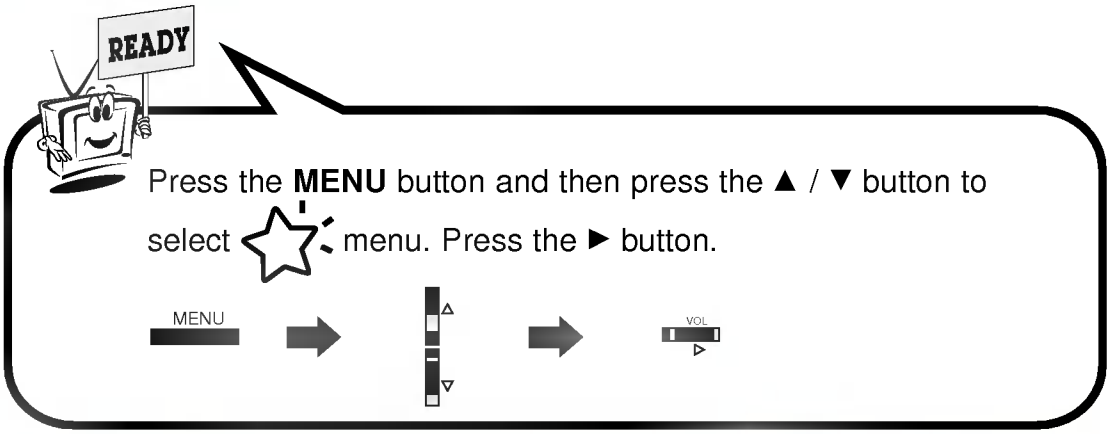
2 Press the ▲ / ▼ button to select **Dynamic** or **Mild**.



3 Press the **OK** button.

Se

- **Use this option when viewing the video input.**

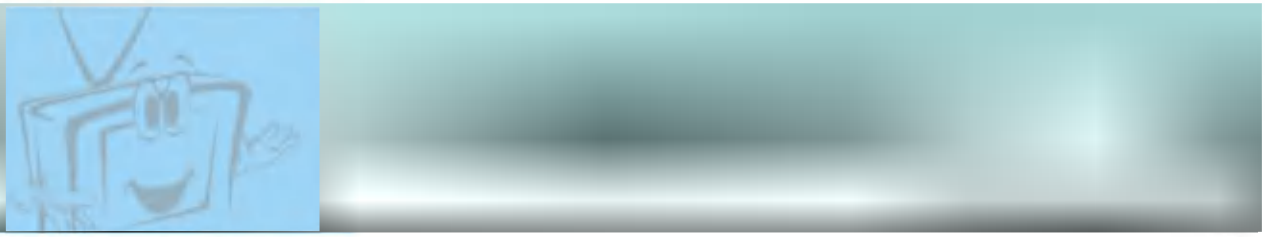


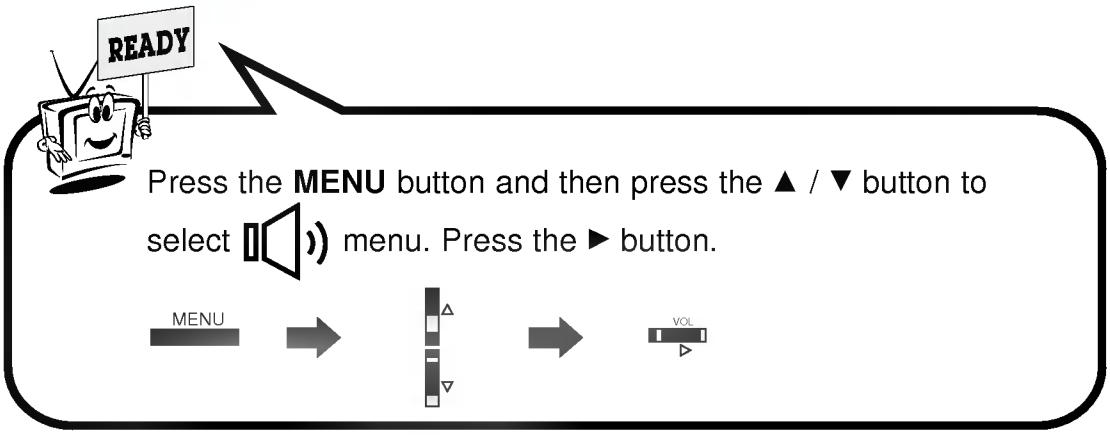
1 Use the ▲ / ▼ button to select **Screen** and then press the ► button.

2 Use the ▲ / ▼ button to select **TV** or **VCR**.

- Select the **VCR** option if watching a VCR.
- Select the **TV** option for other equipment.(Except VCR)
- Each time you press the ▲ / ▼ button you toggle between **TV** and **VCR**.

3 Press the **OK** button.





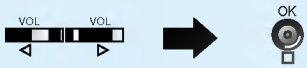
1

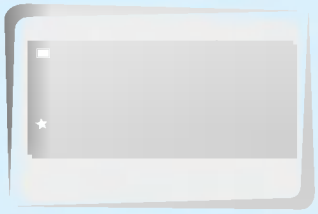
Use the ▲ / ▼ button to select **Treble** and then press the ► button.
(if adjusting treble)

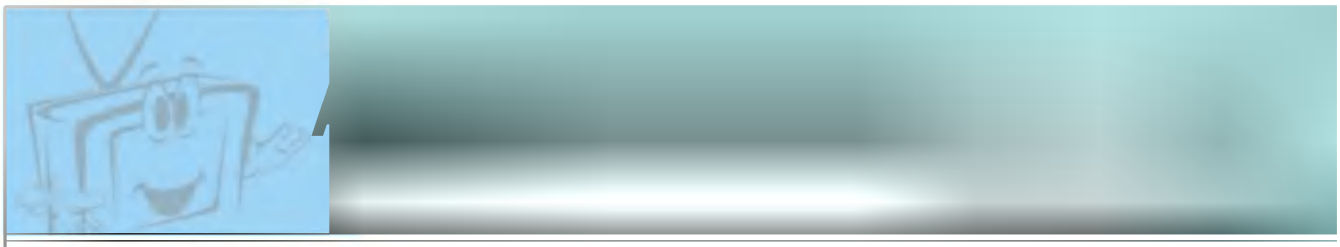
- Adjust **Bass** and **Balance** in the same way.

2

Use the ◄ / ► button to make appropriate adjustment and then press the **OK** button.
- Press the ▲ / ▼ button to select other options.





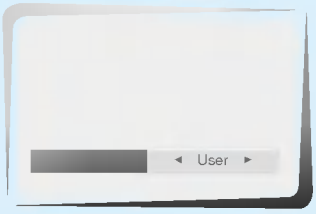


SSM

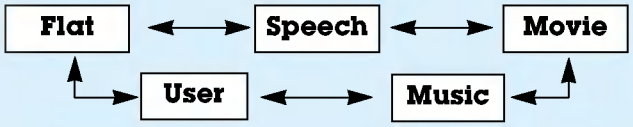
- This function lets you enjoy the best sound without any special adjustment because the Monitor automatically selects the appropriate sound option based on the program content.

1 Press the **SSM** button.

2 Press the **SSM** or ◄ / ► button to select your desired sound.



- Each press of **SSM** or ◄ / ► button changes the screen display as below.



- You can also select **Flat**, **Speech**, **Movie**, **Music** or **User** in the **Sound** menu.
- The sound **Flat**, **Speech**, **Movie** and **Music** are programmed for good sound reproduction at the factory and cannot be changed.

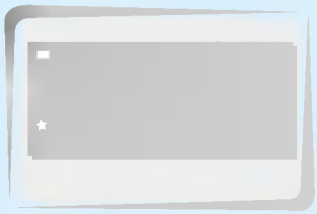
AVL (Auto Volume Leveler)

< This feature maintains an equal volume level; even if you change channels >

Press the **MENU** button and then press the ▲ / ▼ button to select menu. Press the ► button.

1 Press the ▲ / ▼ button to select **AVL** and then press the ► button.

2 Press the ▲ / ▼ button to select **On** or **Off**.



3 Press the **OK** button.

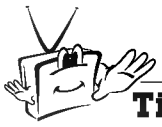
1 Press the **STILL** button.

- You can still the current picture.
- The sub picture is stilled in PIP mode.

<Moving image>

<Still image>

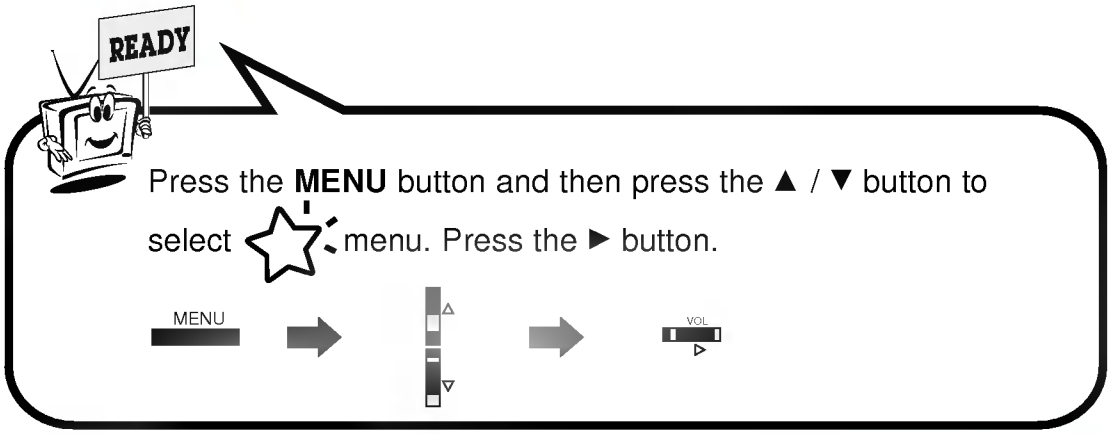
2 To return to normal viewing, press the **STILL** button again.



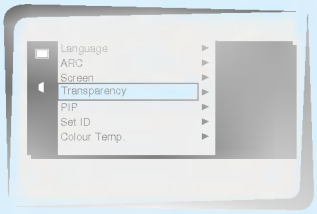
Tips

- If still picture is on the screen for more than 5 minutes, the image becomes dark.
  If another function is activated, normal brightness of the screen is restored.

Adjus



1 Press the ▲ / ▼ button to select **Transparency** and then press the ► button.



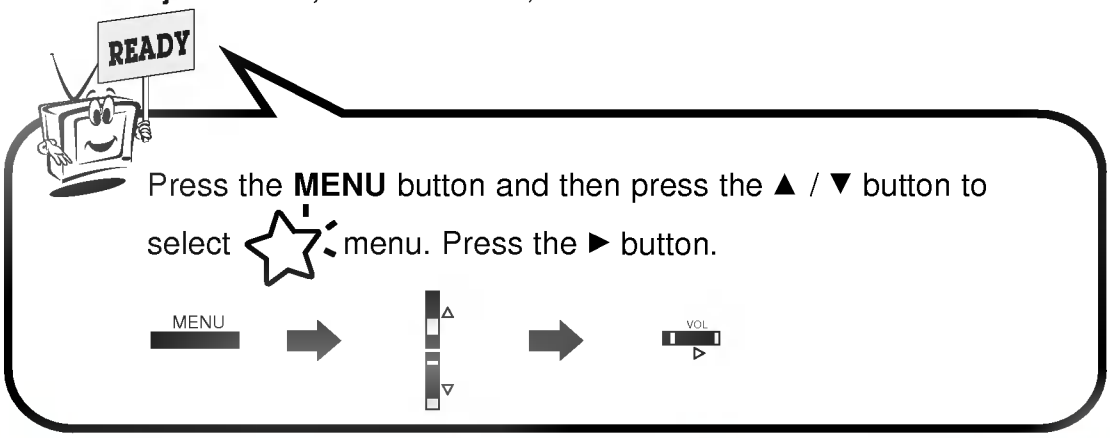
2 Press the ◄ / ► button to adjust OSD transparency.

- The adjustment range of **Transparency** is 1 ~ 4.

3 Press the **OK** button.

Adjus

- Only adjust **Colour Temperature** function in MT-42PZ15 series / MZ/T-42PZ17 series.
- You should be adjust colour temperature in PC mode again although colour temperature is adjusted in other input source.
- To initialize adjusted value, select '0' in **Red**, **Green** and **Blue.**



1 Press the ▲ / ▼ button to select **Colour Temp.** and then press the ► button.

2 Press the ▲ / ▼ button to select **Red** and then press the ► button.
(to adjust Red setting)

- Adjust **Green** and **Blue** in the same way.

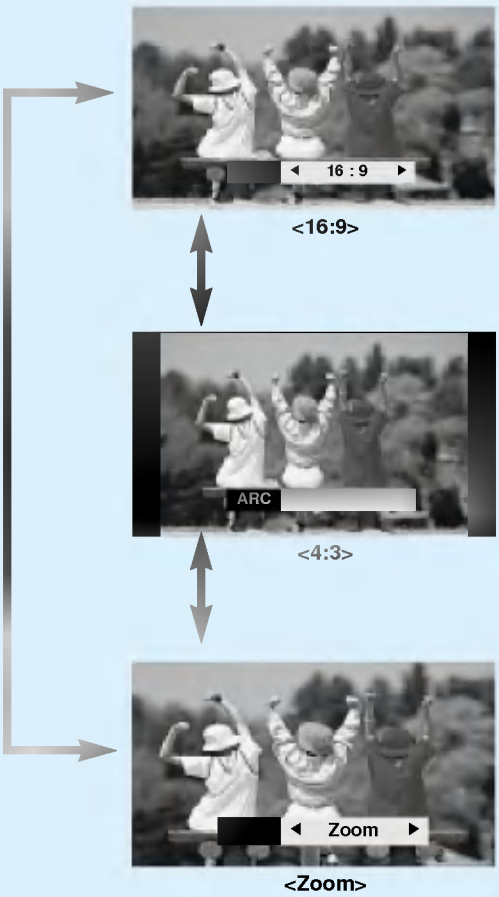
3 Use the ◄ / ► button to make appropriate adjustments and then press the **OK** button.

- The adjustment range of **Red**, **Green** and **Blue** is -5 ~ +5.

- **You are available to 16:9 or 4:3 in RGB.**
- **If 4:3 is on the screen for a long time, that fixed image may remain visible.**
- **Don't display 4:3 picture format on screen above 10 hours continuously.**

Press the **ARC** button to select a desired picture format.

- Each time you press **ARC** or ◄ / ► button, you can select **16:9**, **4:3** or **Zoom** alternatively.



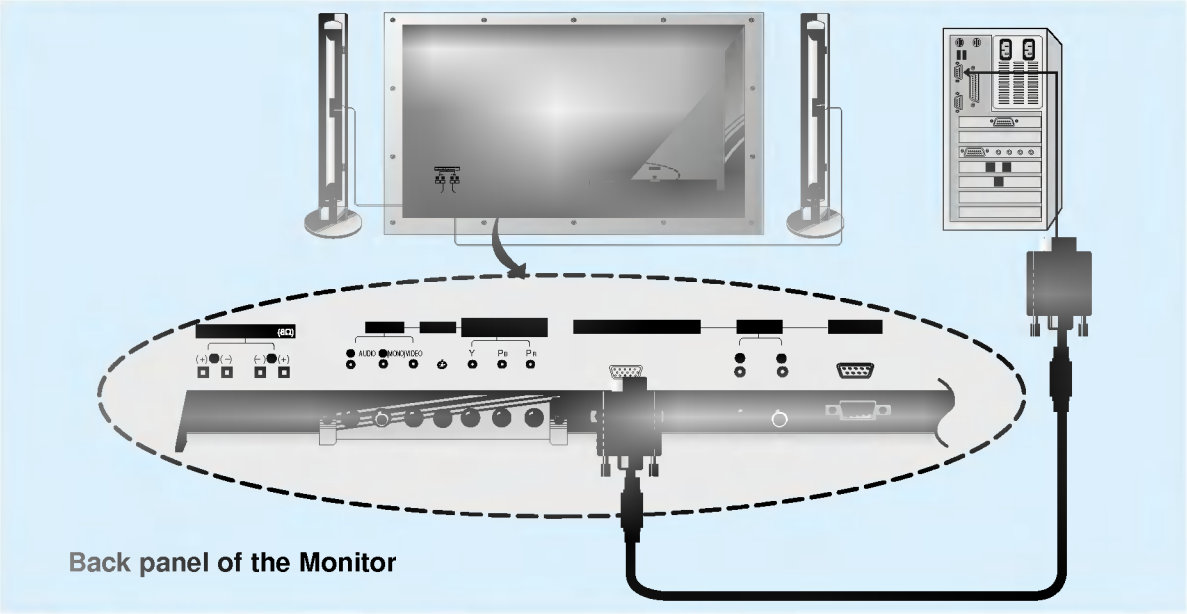
- You can also select **16:9**, **4:3** or **Zoom** in the **Special** menu.

Extern

- **Connect the RS-232C input jack to an external control device (such as a computer or an A/V control system) and control the Monitor's functions externally.**

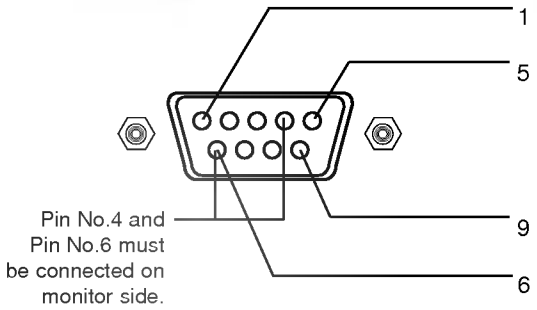
How to connect external control equipment

- Connect the serial port of the control device to the RS-232C jack on the Monitor back panel.
- RS-232C connection cables are not supplied with the Monitor.
- The Monitor remote control and front panel controls (except main power) will not be functional if the Monitor is controlled by a PC computer or other external device.



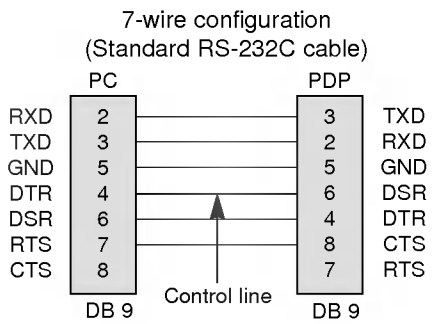
Type of connector : D-Sub 9-pin male

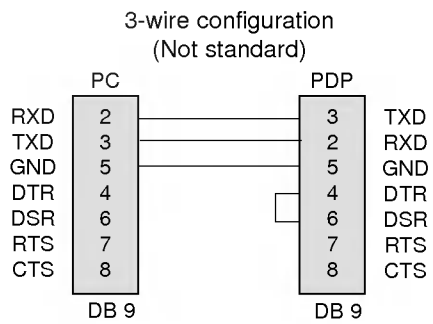
No.	Pin name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (DCE side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection



* Use a null modem cable.
  Wire the 7-Wire cable so that each pair of data lines cross between the two devices. These data line pairs are RXD (Receive data) and TXD (Transmit data), DTR (DTE side ready) and DSR (DCE side ready), and RTS (Ready to send) and CTS (Clear to send).
  When using the 3-Wire cable connected to RXD, TXD and GND; Pin No. 4 (DTR) and Pin No. 6 (DSR) must be connected to the monitor. (The cable must be disconnected from the Monitor to be able to use the remote control and Monitor front panel controls.)
* With the RS-232 input connected, the Monitor cannot be controlled by both an external control device and the remote control at the same time. The Monitor can only be controlled by either the remote control or the external control device.

RS-232C configurations





7-Wire Cable Configuration

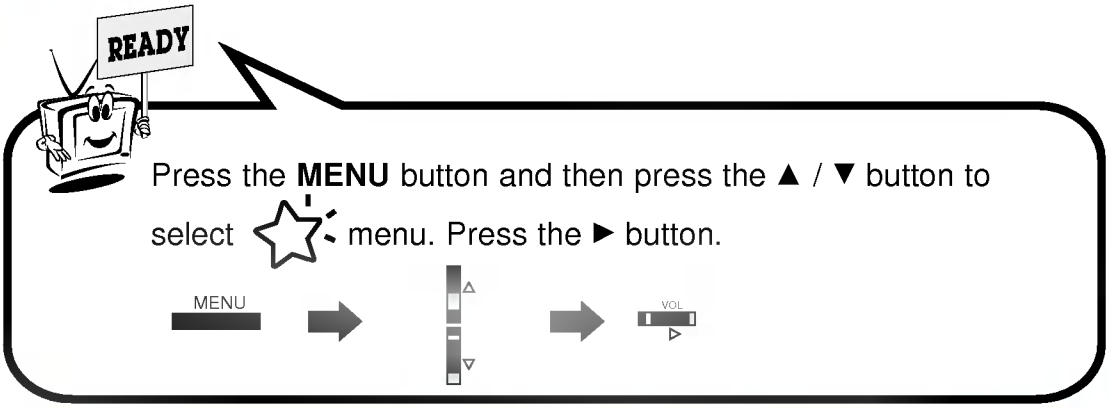
- The Monitor is available to switch between external adjustment and remote control adjustment using a control line. Note: If the control line is high, the monitor is controlled by the external control device. If the control line is low, the Monitor is controlled by the Monitor's remote control.

3-Wire Cable Configuration

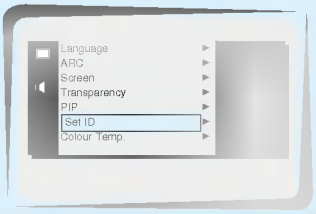
- When using a 3-Wire cable configuration there is no control line. The external control device must put the Monitor into the "change into remote control adjustment mode" (see page 49). The Monitor will then be able to be controlled by the remote control. If the Monitor is turned back on, it will revert back to external device control.

SET ID

- Use this function to specify a monitor ID number.



1 Use the ▲ / ▼ buttons to select **SET ID** and then press the ► button.



2 Use the ◄ / ► button to adjust **SET ID** until you get desired monitor ID number.

- The adjustment range of **SET ID** is 1 ~ 99.

Extern

- **The RS-232C input jack is used to control the Monitor's functions using an external control device.**

Communication Parameters

- Baud rate : 2400 bps (UART)
- Data length : 8 bits
- Parity : None
- Stop bit : 1 bit
- Communication code : ASCII code

* If the command interval is interrupted for more than 4 seconds, only Command 1 will be recognized. Be careful when using the power command.

Command Reference List

01. Power	p	0 ~ 1
02. Input Select	i	0 ~ 3
03. Aspect Ratio	r	0 ~ 2
04. Screen mute	m	0 ~ 1
05. Volume mute	w	0 ~ 1
06. Volume control	v	0 ~ 64
07. Contrast	k	0 ~ 64
08. Brightness	b	0 ~ 64
09. Color	c	0 ~ 64
10. Tint	t	0 ~ 64
11. Sharpness	s	0 ~ 64
12. OSD select	d	0 ~ 1
13. Abnormal state	a	0 ~ 1
14. PIP	z	0 ~ 3
15. PIP input select	e	0 ~ 1
16. PIP sound select	u	0 ~ 1
17. PIP position	x	0 ~ 3
18. remote control adjustment mode	j	0 ~ 1

Transmission/Receiving Protocol

Transmission

[Command][ ][Set ID][ ][Data][Cr]

* [Command] : To control PDP set.
* [Set ID] : You can adjust the set ID to choose desired monitor ID number in special menu. See page 45. Adjustment range is 1 ~ 99.
  When selecting Set ID '0', every connected PDP set is controlled.
* [DATA] : To transmit command data.
  Transmit 'FF' data to read status of command.
* [Cr] : Carriage Return
  ASCII code '0x0D'
* [ ] : ASCII code 'space (0x20)'

OK Acknowledgement

[Set ID][:][OK][x][Data][x]

* The Monitor transmits ACK (acknowledgement) based on this format when receiving normal data. At this time, if the data is data read mode, it indicates present status data. If the data is data write mode, it returns the data of the PC computer.

Error Acknowledgement

[Set ID][:][NG][x]

* The Monitor transmits ACK (acknowledgement) based on this format when receiving abnormal data from non-viable functions or communication errors.

01. Power (Command:p)

▶ To control Power On/Off of the Monitor.

Transmission

[p][ ][Set ID][ ][Data][Cr]

Data 0 : Power Off
1 : Power On

* Example : Power on for set ID No.3.
  Type : P 3 1 '0x0D'

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : Power Off
1 : Power On

* In example : Monitor Acknowledges power on for set ID No.3.

▶ To show Power On/Off.

Transmission

[p][ ][Set ID][ ][FF][Cr]

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : Power Off
1 : Power On (RGB)
2 : Power On (Video)
3 : Power On (Component)
4 : Power On (S-Video)

* In like manner, if other functions transmit 'FF' data based on this format, Acknowledgement data feed back presents status about each function.

02. Input select (Command:i)

▶ To select input source for the Monitor.
You can also select an input source using the INPUT SELECT button on the Monitor's remote control.

Transmission

[i][ ][Set ID][ ][Data][Cr]

Data 0 : RGB
1 : AV (Video)
2 : Component
3 : S-AV (S-Video)

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : RGB
1 : AV (Video)
2 : Component
3 : S-AV (S-Video)

03. Aspect Ratio (Command:r)

▶ To adjust the screen format.
You can also adjust the screen format using the ARC (Aspect Ratio Control) button on remote control or in the Special menu.

Transmission

[r][ ][Set ID][ ][Data][Cr]

Data 0 : Wide screen (16:9)
1 : Normal screen (4:3)
2 : Full screen (Zoom)

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : Wide screen (16:9)
1 : Normal screen (4:3)
2 : Full screen (Zoom)

* Using the PC input, you select either 16:9 or 4:3 screen aspect ratio.

04. Screen mute (Command:m)

▶ To select screen mute on/off.

Transmission

[m][ ][Set ID][ ][Data][Cr]

Data 0 : Screen mute on (Picture off)
1 : Screen mute off (Picture on)

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : Screen mute on (Picture off)
1 : Screen mute off (Picture on)

05. Volume mute (Command:w)

▶ To control volume mute on/off.
You can also adjust mute using the MUTE button on remote control.

Transmission

[w][ ][Set ID][ ][Data][Cr]

Data 0 : Volume mute on (Volume off)
1 : Volume mute off (Volume on)

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : Volume mute on (Volume off)
1 : Volume mute off (Volume on)

06. Volume control (Command:v)

▶ To adjust volume.
You can also adjust volume with the volume buttons on remote control.

Transmission

[v][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64
* Refer to 'Real data mapping' as shown below.

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data Min : 0 ~ Max : 64

07. Contrast (Command:k)

▶ To adjust screen contrast.
You can also adjust contrast in the Picture menu.

Transmission

[k][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64
* Refer to 'Real data mapping' as shown below.

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data Min : 0 ~ Max : 64

* **Real data mapping**

0 : Step 0
⋮
A : Step 10
⋮
F : Step 15
10 : Step 16
⋮
64 : Step 100

08. Brightness (Command:b)

▶ To adjust screen brightness.
You can also adjust brightness in the Picture menu.

Transmission

[b][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64
* Refer to 'Real data mapping' on the p.47.

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data Min : 0 ~ Max : 64

09. Color (Command:c)

▶ To adjust the screen color.
You can also adjust color in the Picture menu.

Transmission

[c][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64
* Refer to 'Real data mapping' on the p.47.

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data Min : 0 ~ Max : 64

10. Tint (Command:t)

▶ To adjust the screen tint.
You can also adjust tint in the Picture menu

Transmission

[t][ ][Set ID][ ][Data][Cr]

Data Red : 0 ~ Green : 64
* Refer to 'Real data mapping' on the p.47.

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data Red : 0 ~ Green : 64

11. Sharpness (Command:s)

▶ To adjust the screen sharpness.
You can also adjust sharpness in the Picture menu

Transmission

[s][ ][Set ID][ ][Data][Cr]

Data Min : 0 ~ Max : 64
* Refer to 'Real data mapping' on the p.47.

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data Min : 0 ~ Max : 64

12. OSD select (Command:d)

▶ To select OSD (On Screen Display) on/off.

Transmission

[d][ ][Set ID][ ][Data][Cr]

Data 0 : OSD off
1 : OSD on

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : OSD off
1 : OSD on

* The remote control and Monitor front panel controls (except main power) are not operable when the Monitor is set up to be controlled by the PC computer.

13. Abnormal state (Command:a)

▶ To recognize an abnormal state.

Transmission

[a][ ][Set ID][ ][FF][Cr]

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : OK
1 : Fan alarm
2 : 5V down
3 : AC down

* This function is "read only".

14. PIP (Command:z)

▶ To control PIP(Picture In Picture) .
You can also control PIP with using PIP button on the remote control or in the special menu.

Transmission

[z][ ][Set ID][ ][Data][Cr]

Data 0 : PIP off
1 : PIP (small)
2 : PIP (large)

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : PIP off
1 : PIP (small)
2 : PIP (large)

* PIP only works in the following resolutions:
RGB PC 640x480(VGA) / 800x600(SVGA) / 1024x768(XGA) (only in vertical frequency 60Hz), Component 480p.

15. PIP input select (Command:e)

▶ To select input source for sub picture in PIP mode.
You can also select source using PIP input button on the remote control or in the Special menu.

Transmission

[e][ ][Set ID][ ][Data][Cr]

Data 0 : AV (VIDEO)
1 : COMPONENT
2 : S-AV (S-VIDEO)

Ack

[Set ID][:][OK][x][Data][x]

Data 0 : AV (VIDEO)
1 : COMPONENT
2 : S-AV (S-VIDEO)

* COMPONENT source only works with 480i input signal.

16. PIP sound select (Command:u)

▶ To select main or sub (inset) sound for PIP.
You can also select sound select in PIP on the special menu.

Transmission

[u][ ][Set ID][ ][Data][Cr]

Data 0 : Main picture sound
1 : Sub picture sound

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : Main picture sound
1 : Sub picture sound

* COMPONENT source only works in 480i input signal.

17. PIP position (Command:x)

▶ To select sub picture position for PIP.
You can also adjust the sub picture position using the position button on the remote control or in PIP on the Special menu.

Transmission

[x][ ][Set ID][ ][Data][Cr]

Data 0 : Right down on screen
1 : Left down on screen
2 : Left up on screen
3 : Right up on screen

Ack

[Set ID][:][OK][x][Data][x]

Data 0 : Right down on screen
1 : Left down on screen
2 : Left up on screen
3 : Right up on screen

18. Change into Remote control adjustment mode (Command:j)

▶ To control the Monitor with the remote control while the cable is still connected.

Transmission

[j][ ][Set ID][ ][Data][Cr]

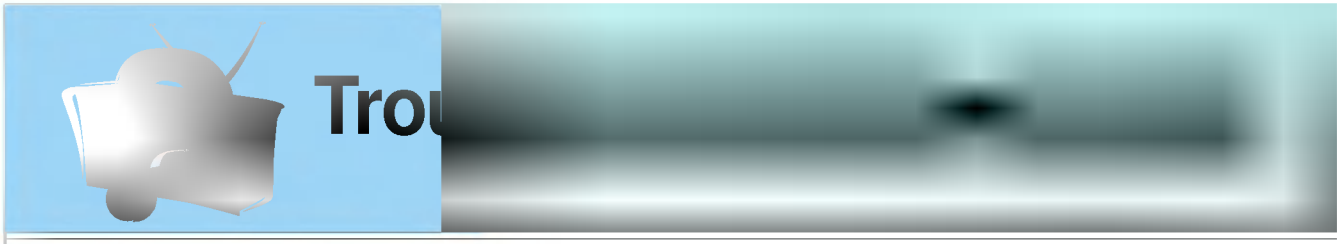
Data 1 : Remote control adjustment mode

Acknowledgement

[Set ID][:][OK][x][Data][x]

Data 0 : PC adjustment mode
1 : Remote control adjustment mode

* If external equipment commands the Monitor to "change into remote control adjustment mode", the Monitor can only be adjusted by the remote control. To revert the Monitor control to external control device adjustment, turn the Monitor off and then on again.



Trou

No picture & No sound	• Check whether the Monitor is turned on. • Power cord inserted into wall outlet? • Plug another product's power cord into the wall outlet where the Monitor's power cord was plugged in.
Picture OK & No sound	• Press the **VOLUME** (►) button. • Sound muted? Press **MUTE** button.
The remote control doesn't work	• Check to see if there is any object between the Plasma Display and the remote control causing obstruction. • Check to see if the batteries are installed with the correct polarities. (Refer to p.13) • Install new batteries. (Refer to p.13)
No or Poor color or Poor picture	• Select **Colour** in the **Picture** menu and press the **VOLUME** (►) button. (Refer to p.34) • Keep a certain distance between the Monitor and the VCR. • Activate any function to restore the brightness of the picture. (If still picture is on the screen for more than 5 minutes, the screen gets dark.)
No output from one of the speakers	• Adjust **Balance** in the **Sound** menu. (Refer to p.37)
Strange sound from the Monitor	• Typical sound due to normal Monitor operation, Monitor is not faulty.

MODEL	MZ-42PZ13/A/B/G/K/S MZ-42PZ17/A/B/G/K/S	MT-42PZ11/A/B/G/K/S MT-42PZ15/A/B/G/K/S MT-42PZ17/A/B/G/K/S
Width (inches / mm)	41.6 / 1056	
Height (inches / mm)	25 / 635	
Depth (inches / mm)	3.2 / 82	
Weight (pounds / kg)	72.1 / 32.7	
Power requirement	230V~50Hz	110-240V~50/60Hz
Resolution	852 x 480 (Dot)	
Color	16,770,000 (256 steps of each R, G and B)	

- The specifications shown above may be changed without notice for quality improvement.