## **Monitor Installation**

 Image: Supporter Hanger

 Image: Supporter Hanger

 Image: Supporter Hanger

### 50" Speaker (Optional) Installion

• Match red to red, black to black of Speaker / TV.



• Always lift the monitor itself (not the speakers) when handling or moving the monitor after speakers have been installed. Assemble the monitor to speaker with using the supporter hanger and bolt. As shown above A, assemble the a and b of supporter hanger to the monitor with using the bolt(M4x8). Assemble the c, d and e to the speaker with using the bolt(4x16). If the bolts are tightened too much, the product could be damaged.

# **Monitor Installation**



• Connecting Speakers to the Monitor using the speakers wires provided



• Be sure monitor power is turned off before making any connections. Place the speakers in the position you want. Install the speaker wires on the monitor and speaker. Be sure to connect the positive "+" wire to the "+" input and the negative "-" wire to the "-" input. Connect left monitor input to left speaker and right monitor input to right speaker. Any extra speaker wire length remaining can be bunched into the wire holders provided. (Caution: Once installed, the speaker wire holders lock into position and can't be removed.)

### Accessories



2-Supporter Hanger (Mount speakers to Monitor)



2-Speaker Wires



6-4 X 16 Bolts (Attach Supporter Hanger to speakers)



2-Speaker Wire Holders (for arranging the speaker wires)



8-M4 X 8 Bolts (Attach Supporter Hanger to monitor)

# **Optional Extras**



Table Stand (Type United)



Table Stand (Type Separated)



Fixed Wall Mount Bracket



Side Mount Speaker

# Watching TV



# Watching VCR

When connecting the Plasma Monitor with external equipment, match the colors 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.



< To avoid picture noise (interference), leave an adequate distance (over 3m) between the VCR and monitor. >

### To watch VCR (When the Interface board is installed.)

Press TV/ Video button on the Remote Control and select Video Sources. (When connection with S-Video, select the S-Video.)

2 Insert a video tape into the VCR and press the PLAY button on the VCR.



# Watching DVD (Interlace)

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

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



### How to use (When the Interface board is installed.)

1) Turn on the DVD player.

2) Press TV / Video button on the remote control of the monitor to select Component.

### 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	P <sub>B</sub>	P <sub>R</sub>
Video output ports of DVD player	Y Y Y	Pb B-Y Cb P₅	Pr R-Y Cr P <sub>R</sub>

# Watching DVD (Progressive)

 DVD/HDTV Watching through RGB Input for Progressive(480p, 720p, 1080i) mode(YPbPr)



### How to use (When the Interface board is installed.)

- 1) Turn on the DVD player or Settop Box.
- 2 Press TV / Video button on the remote control of the monitor to select Component. (Select "DTV YPbPr")





• Normal DVD source is based on 480i, which should be through normal YPbPr of Component signal.



• Connect normal 480i, DVD source, through normal YPbPr of Componect signal only.

No Signal
 "No Signal" on display will disappear after 5 minutes, then the TV will go in to Sleep Mode (dark).

0 No Signal

# **Connecting The PC**

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



#### Connecting a PC to the PDP

Connect a PC (15pin) cable between the Video Output jack on the PC and the RGB (480p, 720p, 1018i) in (15p D-SUB) on the PDP.

### Pin Configuration

15Pin Signal Cable (based on mate pin)

#### DVI Cable

To see the PC through DVI, Select "Digital RGB" in your OSD.





Pin No.	Description
1	Red (R)
2	Green (G)
3	Blue (B)
4	Grounding
5	Grounding (DDC)
6	Red (R) Grounding
7	Green (G) Grounding
8	Blue (B) Grounding
9	Reserved
10	Sync Grounding
11	Grounding
12	Data (DDC)
13	Horizontal sync.
14	Vertical sync.
15	Clock (DDC)

# **Displayable Monitor Specification**

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640 x 350	31.468	70.09
040 x 350	37.861	85.08
640 x 400	31.469	70.08
040 X 400	37.927	85.03
	31.469	59.94
	35.000	66.66
	37.861	72.80
640 x 480	37.500	75.00
040 x 400	43.269	85.00
	45.913	90.03
	53.011	100.04
	64.062	120.00
	35.156	56.25
	37.879	60.31
	48.077	72.18
800 x 600	46.875	75.00
	53.674	85.06
	56.000	90.00
	64.016	100.00
832 x 624	49.725	74.55
852 x 480	31.468	60.05
1024 x 768	48.363	60.00
	56.476	70.06
	60.023	75.02
1280 x 1024	64.000	60.00
1366 x 768	48.387	60.00



- Synchronization input form : separate
- 852 x 480 : 42" Native Resolution Horizontal Polarity is Positive(+) Vertical Polarity is Negative(-)
- **1366 x 768 : 50" Native Resolution** Horizontal Polarity is Positive(+) Vertical Polarity is Negative(-)
- The PDP recognizes 640x480@60Hz signal as 480p DTV signal. (They has almost same frequencies.) So the signal is expanded, please try other signals like 640x480@75Hz.
- The PDP operates abnormally if a non-standard video format is selected.
- Depending on the manufacturer, your PC screen might appear differently (and depending on your particular version of Windows). Check your PC instruction book for information about

connecting your PC to a PDP.

- The PDP may operate abnormally if a non-standard video signal.
- "Out of range" message box will appear when an over-spec video signal is input. Change the video settings of PC when the message is displayed.

# **OSD Structure**

- OSD (On Screen Display) allows user to control or adjust various features and settings in accordance with his/her preferences.
- · Press the MENU/SET button on the Remote Control, you may see the OSD.



SO	UND	♦SET ↑UP ↓DOWN ♦EXIT
	VOLUME	50
	BALANCE	50
(e)	SOUND MODE	Normal
	AVC	On
$\bigcirc$		
Ě		

TIM	IE	♦SET † UP ↓DOWN ♦EXIT
	SLEEP	Off
	WAKE UP	Press SET
	TIME	Press SET
$\bigcirc$		

PIP		♦ SET † UP ↓ DOWN ♦ EXIT
	PIP ON/OFF	PIP Off
	PIP SOURCE	TV
	AUDIO SOURC	e Main
	PIP POSITION	000000000
$\bigcirc$		
Ě		

MIS	SC	♦SET ↑UP ↓DOWN ♦EXIT
	VIDEO SIZE	Letter Box
	OSD LANGUAGE	English
	OSD SHEET	Opaque
R	OSD POSITION E	
	SET ID	1
	ADVANCED	Press SET

TV	SETUP	♦SET †UP ↓DOWN ♦EXIT
	MODE	AIR
	AUTO CHANNEL	Press SET
	FINE TUNE -	50
<b>R</b>	MTS	AUTO

# **PICTURE (TV & VIDEO)**

Adjust Brightness, Contrast, Color, Hue, Sharpness, Temperature and Recall on OSD menu.



#### HUE

Control the color appearance from neutral to red or green or Blue.





Hue means that it is a difference of color toward Green or Red color direction.

# **PICTURE (TV & VIDEO)**

PIC	TURE	♦SET † UP ↓DOWN ♦EXIT
	BRIGHTNESS -	50
	CONTRAST —	50
( <u>é</u>	COLOR -	50
	SHARPNESS -	50
	TEMPERATURE	Normal
	RECALL	Press SET

### SHARPNESS

Control the sharpness of image edge.



Less sharp <



▶ Sharp

#### **D** TEMPERATURE

Select the color temperature of screen image from Warm, Cool and Normal.



Warm 🔺

► Cold

### RECALL

Go into PICTURE Menu, and select Recall then press set for all resets.



• Screen Image retention : Do not display a still image (such as on a videogame or when hooking up a PC to this Monitor) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, refer to page 37 and 40 of this manual to reduce the degree of brightness and contrast of this screen when displaying a still image.

# **PICTURE (PC)**

Adjust Brightness, Contrast, Temperature and Geometry on OSD menu.



Select the color temperature of screen image from Warm, Cool and Normal.



Warm 🖪



### Temperature control by User

Value for Red, Green and Blue can be adjusted when you choose User mode using  $\blacktriangleleft \triangleright$  key.

# **PICTURE (PC)**

### GEOMETRY

Press MENU/SET button, you can see below picture. Move where you want to adjust.

GEOMETRY		
H-POSITION		50
V-POSITION		50
PHASE		50
H-SIZE		50
AUTO ADJUST	Press SET	
$\diamond$ SET $\uparrow$ UP $\downarrow$ DOWN $\diamond$ EXIT		

 PICTURE
 \$SET [ UP ] DOWN \$EXIT

 BRIGHTNESS
 50

 CONTRAST
 50

 TEMPERATURE
 User

 GEOMETRY
 Press SET

< on Analog RGB mode >

#### H-POSITION

V-POSITION

PHASE

H-SIZE

input mode.

PC/HD input mode.

Centering display image.

Centering display image. After selecting Position menu, you can move the image using VOL -/+ buttons.

After selecting Position menu, you can move the image using VOL -/+ buttons.

Fine tuning of display accuracy on the screen. Only available when you are in

Adjust the horizontal size of display.

Only available when you are in PC/HD



Mismatch

Match

### Auto Adjust

Automatically adjust picture position and eliminate any image shaking.

AUTO ADJUST is only available on Analog RGB mode.

# SOUND (TV & VIDEO + PC)

Adjust the Volume, Balance, Sound Mode and AVC on OSD menu.

1 Press MENU/SET button to activate OSD.



3 Press MENU/SET button again to get into SOUND main menu.

SO	UND	♦SET †UP ↓DOWN ♦EXIT
	VOLUME	50
	BALANCE	50
(ed	SOUND MODE	Normal
	AVC	On

### VOLUME

Control the amount of volume of sound. Ranges from 0 to 100

### BALANCE

Control the left and right sound balance.

### SOUND MODE

The sound mode feature allows you to choose the best appropriate audio environment.





Balance

♦SET ↑UP ↓DOWN ♦EXIT
50
50
DE User
R Press SET
On

	EQUALIZER	
120 Hz		50
500 Hz		50
1.5 kHz		50
5 kHz		50
10 kHz		50
SPATIAL		50
†UP ↓	$DOWN \leftarrow LEFT \rightarrow RIGHT  \diamond EXIT$	

## SOUND MODE - EQUALIZER

You can adjust the quality of the sound to suit your taste on User mode.

### AVC (Auto Volume Control)

AVC feature controls the volume level between two different channels automatically.

# MISC (TV & VIDEO + PC)

Image scaling, OSD display.

MIS	SC	♦SET Ť UP I DOWN ♦ EXIT
	VIDEO SIZE	Letter Box
	OSD LANGUAGE	English
	OSD SHEET	Opaque
	OSD POSITION	
	SET ID	1
	ADVANCED	Press SET

### VIDEO SIZE(Aspect Ratio)

You can change the scaling size of video on MISC main menu and VIDEO SIZE sub menu or by pressing V.SIZE button on Remote Control.

### 16:9

Fill the screen regardless of incoming aspect ratio.

### 4:3

Fit the screen with the same aspect ratio as signal source.

#### Letter Box

Expand letter box contents to full screen. But you will notify the display quality worse than original mode due to the loss resolution caused by image expansion. (use only with letter box contents)

#### Zoom

Zooming more like a classical TV size, which is over-scanned.

### OSD SHEET

OSD POSITION

Select the background pattern of OSD. "Opaque" and "Translucent" can be selected. "Opaque" set the OSD background as solid color. "Translucent" set the OSD background as half transparent.

Changes the Transparency of background color of OSD window.

Select OSD position among nine preset positions.



Opaque



Translucent

## OSD OSD OSD OSD OSD OSD OSD OSD OSD

Translucent

# MISC (TV & VIDEO + PC)

Image scaling, OSD display.

MIS	SC	♦SET †UP ↓DOWN ♦EXIT
	VIDEO SIZE	Letter Box
	OSD LANGUAGE	E English
	OSD SHEET	Opaque
R	OSD POSITION	
	SET ID	1
	ADVANCED	Press SET

### SET ID

If you intend to control more than 2 PDPs via PC, you can assign ID number to each PDP from 1 to 99 by connecting with RS232C cable.

#### ADVANCED

You can control the burn protect function.

#### BURN PROTECT

Burn protection is to avoid displaying the same image long time. To avoid displaying a static image long time, image moves horizontally 2~3 pixel per 2 minutes. The moving is repeated until PDP set be power-off. (Default Value is "On".)

	ADVANCED	
BURN PRO NATIVE MC	TECT DE	On Off
	M3.1-PG4N6A1	P50
	TECT DE M3.1-PG4N6A1	On Off P50 ⇔EXIT

#### NATIVE MODE

When you use PDP as PC Monitor, Native Mode display all timing to 852 x 480 mode. When you off NATIVE MODE, PDP display 640x480 mode except 848 x 480 mode.



• When Native Mode is On, 640x480 resolution change to 852x480 resolution.

## TIME

TV SETUP	♦SET ↑UP ↓DOWN ♦EXIT
SLEEP	Off
TIME	Press SET
<b>A</b>	
$\bigcirc$	

## SLEEP : 30 min → 60 min → 90 min → 180 min

Select your desirable setting time to turn off the TV automatically. 30 min, 60 min, 90 min, 180 min and "Off" can be selected. The timer will start to count down just after you select.



### TIME SET

You can select the one among Off, Everyday and Once by using Up and Down button.



# **TV SET-UP**

TV	SETUP	♦SET † UP ↓ DOWN ♦ EXIT
	MODE	AIR
	AUTO CHANNEL	Press SET
	FINE TUNE	50
E Carlos	MTS	AUTO
<b></b>		

### MODE

Select "Air" or "Cable". If your TV set is connected antenna, select "AIR", If you TV set is connected to the CABLE TV, select "CABLE"

#### AUTO CHANNEL

If you select "AUTO CHANNEL", TV set will automatically scan available channel and add to permanent channel list. If you want to "exit" auto channel scan, press exit key on IR Remote Control.

#### FINE TUNE

You can manually adjust the tuning precision by using this function.

#### MTS

Select the audio mode on TV broadcasting. "AUTO", "STEREO", "MONO", "L1" and "L2" can be selected. If you select "AUTO", the "TV" set will select stereo mode if the channel broadcast in stereo mode, mono mode otherwise. If you want to set sound mode as "MONO", the set will sounds as mono mode even if the channel broadcasts with stereo mode. If the channel is broadcasting in Bi-lingual mode and if you want to listen to secondary language, you should select "L2". The TV set will sounds with default language otherwise.

# PIP (PC)

PIP works in Analog RGB, Digital RGB, and RTV YPbPr mode.

PIP	)	♦SET †UP ↓DOWN ♦EXIT
	PIP ON/OFF	PIP Off
	PIP SOURCE	TV
	AUDIO SOURC	e main
	<b>PIP POSITION</b>	00000000
Ì		

### PIP(Picture in Picture) ON/OFF

Select ON/OFF the PIP mode. You can choose ON/OFF mode using VOL-/+ keys.





►

### PIP SOURCE

Select the PIP video source. After selecting video source menu, you can change the source using VOL-/+ keys. (TV  $\rightarrow$  AV1  $\rightarrow$  AV2  $\rightarrow$  SVIDEO  $\rightarrow$ COMPONENT)



### AUDIO SOURCE

Select the audio source. When you select 'PIP' mode, you will hear PIP audio source. When you select 'Main' mode, you will hear Analog RGB audio source. You can change the source using VOL-/+ keys.

### PIP POSITION

Select PIP position among nine preset positions.





• If you want to watch another source picture with PIP function during watching DVD, PC signal cannot be supported.

# **Hot Key Function By Remote Control**



### MUTE

To turn off the sound.

#### TV / VIDEO

Select the signal source from multiple input source of TV, AV1, AV2, S-Video, Component, Analog RGB and DTV YPbPr.(480p, 720p, 1080i input)

#### PIP

Activate PIP function on Analog RGB Mode.

### V.SIZE

Change the image size setting, ie; 16:9, 4:3, etc.

#### 100

Press this button first for cable channels over 100.

#### PRE CH

Go back to previous TV channel.

#### STILL

Freeze Frame function, press once again for reset.

#### PICTURE

The Picture mode feature allows you to choose three different modes of picture settings.

#### CH INFO

You can information regarding the channel that you select.

#### MTS

Change sound setting, ie; L1, L2, Mono, etc.

# **Hot Key Function By Remote Control**



# **Hot Key Function By Remote Control**

### **V-CHIP**

Push V-Chip button to activate V-Chip function menu. Input 4digit password (factory default password : 0000) And follow the directions.



### MPAA RATING

Select the block level. you can change the 'SHOW', 'BLOCK' by using VOLUME(◀►) keys.

MPAA RATING		
G PG PG - 13 R NC - 17 X	SHOW SHOW BLOCK BLOCK BLOCK	

## BLOCK CONTENT (TV GUIDELINE CONTENT)

You can change the 'SHOW', 'BLOCK' by using VOLUME( $\triangleleft \triangleright$ ) keys.

BLOCK CONTENT		
D	SHOW	
L	SHOW	
S	SHOW	
L	SHOW	
FV	SHOW	

### TV GUIDELINE

Select the TV guideline. you can change the 'SHOW', 'BLOCK' by using VOLUME(◀►) keys.

TV GUIDE LINE		
TV - Y TV - Y7 TV - G TV - PG TV - 14 TV - MA CONTET	SHOW SHOW SHOW SHOW SHOW Press SET	

### PASSWORD CHANGE

You can change the password. (4 characters)

PASSWORD CHANGE		
OLD		
NEW		
RETRY		



# **Specification**

42" Plasma TV Display Panel
Function and Specification
42-inch diagonal screen
Variable 4:3 / 16:9 image aspect ratios (4 modes)
16:9 Panoramic mode
853 x 480 physical pixels
1500:1 contrast ratio
Brightness : Peak 1000 cd/m <sup>2</sup>
PC monitor support up to 1280 x 1024 60hz
181-Program Cable-Ready TV tuner (NTSC)
Advanced multi-window viewing :
Picture-In Picture(PIP) with four selectable window positions on PC mode
Multiple input compatible
Advanced Motion digital processor
Motion-Adaptive Deinterlace Processor
Digital progressive line scaling
3:2 Pull-Down for Film Scan Conversion
Digital 3D comb filter (NTSC)
PAL / SECAM TV / CATV Tuner Module
Closed Caption decoding (NTSC)
Favorite program programming
Program lock / V-chip (NTSC)
High Definition Component Video inputs : 480 i/p, 720p, 1080i, via VGA adapter
Automatic frequency detection
Selectable color temp. settings : Warm, Cool, User
Miscellaneous
Built-in 7W(RMS) audio amplifier And external two speakers Optional
Audio output Line out (NTSC)
Quiet fan less operation
Front panel lock (via RS-232)

\* (NTSC) means only for NTSC model.

# **Specification**

42" Plasma TV Display Panel
Connectivity:
Composite : RCA-pin x 1, Scart type x 1
Component video signal : YPbPr x 1(480i/576i)
S-video : Mini DIN 4-pin x 1
RGB input : D-sub 15-pin x 1(480p/576p, 720p, 1080i))
Audio input : RCA-pin Type(L/R) x 5 : Full support separated audio input
Speaker output : Cinch Conn Type(L/R) x 1(4cinch connectors type)
Audio system : Stereo
Control Ports : RS-232 D-sub 9-pin x1
DVI Input and DVI Cable / Optional
Accessories
Full function remote control
Table stand / Optional
Side-mount Speakers / Optional
Dimensions : (WxHx D) unit : mm
1035 x 635 x 95.3 (Main only)
1035 x 705 x 299 (With stand, without Speaker)
1235 x 705 x 299 (With stand and Speaker)
Weight:
33kg (Main only)
34.8kg (With stand, without Speaker)
36.8kg (With stand and Speaker)
Working Environment
Power : AC 110 ~ 240V, 50/60Hz
Power Consumption : 380 Watts
Temperature
Operation : 0°c ~ 35°c (32°F ~ 90°F)
Storage : -15°c ~ 60°c (5°F ~ 140°F)
Humidity
Operation : 20 ~ 70%
Storage : 20 ~ 80%
Pressure
Operation : 800 ~ 1114hPa
Storage : 600 ~ 1114hPa

# Troubleshooting

Before you call a service technician, please scan this list of problems and possible solutions. It may save you time and money.

Problem	Quick Action for Possible Solution
No picture & No sound	<ul> <li>Check whether the Monitor is turned on.</li> <li>Power cord inserted into wall outlet?</li> <li>Plug another product's power cord into the wall outlet where the Monitor's power cord was plugged in.</li> </ul>
Picture OK & No sound	<ul> <li>Press the VOLUME(►) button.</li> <li>Check the audio input signal.</li> </ul>
The remote control doesn't work	<ul> <li>Check to see if there is any object between the Plasma Display and the remote control causing obstruction.</li> <li>Check to see if the batteries are installed with the correct polarities.</li> </ul>
No or Poor color or Poor picture	<ul> <li>Select Color in the Picture and press VOLUME (►) button.</li> <li>Keep a certain distance between the Monitor and the VCR.</li> <li>Activate any function to restore the brightness of the picture.</li> <li>Check to see that both the monitor and the source are plugged in and turned on.</li> </ul>
The image is too light or too dark	Adjust the Brightness or Contrast settings.
The image is too large or too small	Adjust the Size settings.
No output from one of the speakers	Adjust Balance in the Sound Menu.
Strange sound form the Monitor	<ul> <li>Typical sound due to normal Monitor operation, Monitor is not faulty.</li> </ul>

# Warranty Card

### 2-Years Limited Warranty

Warranty Service is only available in the country of original purchase. This is an important document. Attach your bill of sale to this card and keep it in a safe place. Your bill of sale is your warranty.

Our warranty remains in effect for one year from the date of the first consumer purchase.

### WHO IS PROTECTED BY THIS WARRANTY

Our warranty protects the original owner and all subsequent owners, provided that our product was purchased from an authorized dealer.

A copy of the original dated bill of sale must be presented whenever warranty service is required.

### WHAT IS COVERED BY THIS WARRANTY

Except as specified below, the warranty covers all defects in material and workmanship. The following are not covered: damage caused by accident, misuse, abuse, product modification or neglect; damage occurring during shipment; damage from failure to follow instructions contained in the instruction manual; damage resulting from the performance of repairs by someone not authorized by us; damage by natural disaster such as lightening, flood etc.; damage caused by installation of parts that do not conform to the specification; units used for other than home and office use; units not used for their intended purpose; any claims based on misrepresentations by the seller; products sold on an "as-is" or final sales basis; or the cost of installing, removing, or reinstalling the unit. Our liability is limited to the repair or replacement, at our option, if any defective product and shall not include incidental or consequential damages. We reserve the right to replace a discontinued model. Any replacement units or parts may be new or rebuilt.

### **TO OBTAIN WARRANTY SERVICE**

If you require warranty service, please return the product to your dealer.

# Memo

•••••			
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# Memo

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# Memo

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