

# 120" Multi PDP Display



## Owner's Instructions

Before operating the unit, please read this manual thoroughly, and retain it for future reference.

This multi-PDP Display system supports high resolution and multi-screen format 2 x 2. So these monitors can be used individually or for one signal.

There are various designs such as wall-mounting or stand-alone type for the best installation.



You can connect the player directly to the MPDP Display or network for a remote control.


- Provides real-time information like weather and traffic reports, stock market information, etc.
- Provides display solution used as in-store mediums to present product advertisement, full motion video, photo-realistic graphics, text and animation.
- Designed for simple installation and maintenance
- Cost efficient for maintenance and handling.
- Needs only a small space because of the ultra slim MPDP Display.


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# CAUTION

|   |  |  |
|---|--|--|
|    | <b>CAUTION</b><br>RISK OF ELECTRIC SHOCK.<br>DO NOT OPEN |  |
| <b>CAUTION :</b> TO PREVENT ELECTRICAL SHOCK,<br>DO NOT REMOVE REAR COVER.<br>NO USER SERVICEABLE PARTS INSIDE.<br>REFER SERVICING TO QUALIFIED SERVICE<br>PERSONNEL. |  |  |

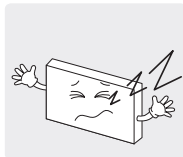
|   |   |
|---|---|
|  | <b>The Lightning flash and arrow head within the triangle is a warning sign . alerting you of.. “dangerous voltage” inside the product.</b> |
|---|---|

|   |   |
|---|---|
|  | <b>This symbol indicates.. additional safety instructions. in the text.</b> |
|---|---|

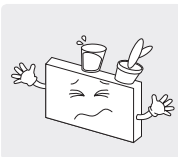
|   |  |
|---|--|
|  | <b>This symbol indicates.. instructions to facilitate.. the operation.</b> |
|---|--|

|  |
|--|
| <b>FCC.NOTICE</b>  |
| <p>This device has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in home environment as well as in a commercial, industrial or business environment. This equipment can generate, use and radiate radio frequency energy and, if not installed and used in accordance with the instruction, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or Monitor reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p> <ul style="list-style-type: none"><li>- Reorient or relocate the receiving antenna.</li><li>- Increase the separation between the equipment and receiver.</li><li>- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.</li><li>- Consult the dealer or an experienced radio/MPDP display panel technician for help.</li></ul> <p>Changes or modification not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.</p> <p>Connecting of peripherals requires the use of grounded shielded signal cables.</p> |

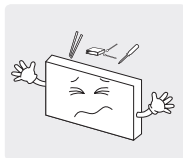
# How to maintain the product



When abnormal operation occurs, please stop all usage and call the service operator.



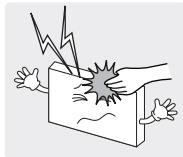
Do not place any liquid items on the product. Moisture may cause electrical shock or fire.



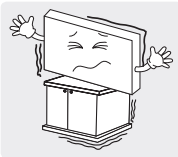
Do not put any foreign objects into the product. This may cause serious failure and shortage to the product.



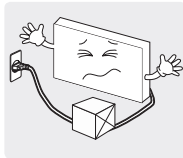
Please advise specialized installation company for any install to the stand or wall. Mishandling can cause damage to the product and injury to the person.



During the lightning storm, do not touch the device, electric shock can be caused.



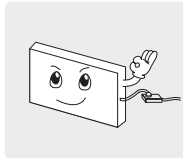
Do not install and place in any unstable platform.



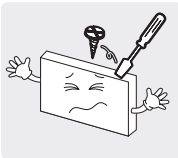
Avoid any damage to the power cord or power plug. The damaged wire can cause fire or electric shock.



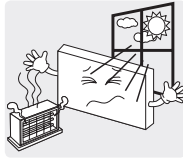
Do not touch the power plug with a wet hand. It may cause serious injury.



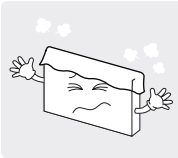
Do not use any external rating outlets or extension cords. Wrong power input can cause serious malfunction or failure.



Do not alter or disassemble the product. It may cause electric shock and damage to the product.

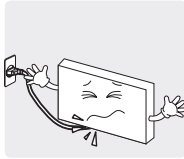


Do not install the product in any direct sun light or near any heating device. This may cause shorten life span or cause serious damage to the product.

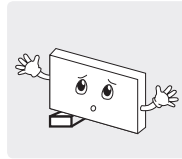


Do not cover the product that can block the venting holes. This may cause high temperature and cause overheating which may cause serious damage to the product.

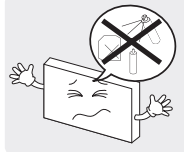
# How to maintain the product



Do not cause any stress to the connection cables. The stress may damage the cord and cause malfunction to the product.



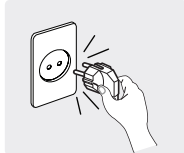
Avoid leaning on the product or leaning the product. This may cause serious injury and damage to the product.



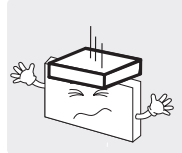
Avoid any area with humidity, dust, oil, smoke or steam. It may cause malfunction of the product.



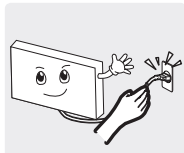
Always unplug the power cord holding the plug. Mishandling may cause damage and electric shock



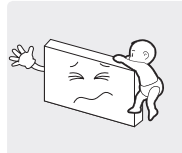
If you do not want to use the product for a long time, keep the power plug unplugged to save the electricity.



Do not place any heavy object on the product. It may cause damage and malfunction of the product.



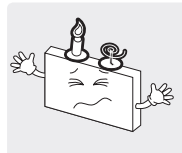
When moving the product, make sure to disconnect all the cables and power cord. Otherwise, it may cause serious damage and electric shock.



Avoid having small children or toddlers around the product. The fall may cause serious damage.



Avoid touching the front panel surface with bare hands. This may cause reduction of picture quality.

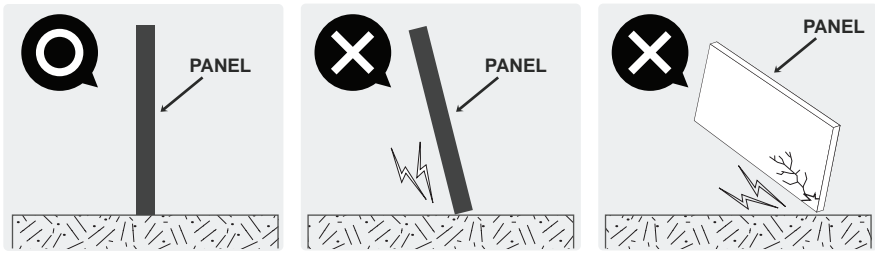


Do not place any candles on the product. The melted liquid wax can cause serious malfunction to the product.

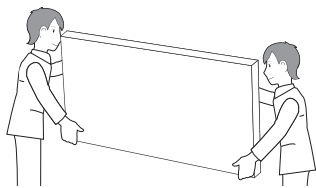
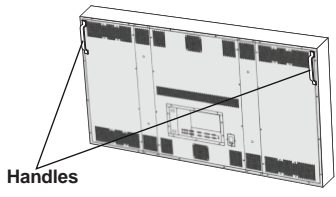
# HOW TO INSTALL

The set is installable in diverse ways such as on a wall, or stand etc.  
Install this set only at a location where adequate ventilation is available.  
This set is designed to be mounted either horizontally or vertically.

**⚠ Attention** **Do not incline the panel forward.**  
The edge or bottom of the panel can be damaged

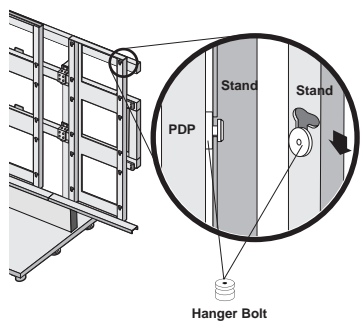


## How to move Multi-PDP ( long distance )



1. 2 people hold each handle on product's back side
2. 2 people transfer the product with holding the handle and the front part at the same time.

## Stand Type ( Optional )



# Important Safety Instruction

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with a dry cloth.
- Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for the replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
- Only use the attachments/accessories specified by Runco Systems.
- Use only with a cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



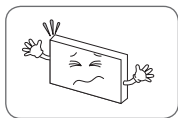


## Precaution

### Before considering as a failure

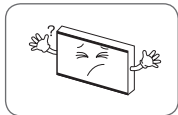
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Before calling for any repair, check the following and then refer to a near A/S center.



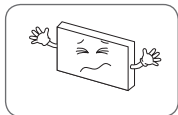
▶ **“Tick” sound from the main body.**

If there is no problem with the screen or sound, the “tick” sound is likely to result from the cabinet lightly shrinking with change of room temperature. The sound does not affect product’s performance.



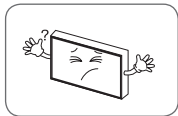
▶ **No image at upper and bottom part of screen.**

As for a screen which is over 16:9 in width (such as cinema-sized one) no image may be displayed at upper and bottom part of the screen.



▶ **Speckles or white lines on the screen**

Check whether the problem is caused by vehicle, streetcar, high voltage cable or neon sign, which interference wave or electromagnetic induction. Avoid any interfering object.



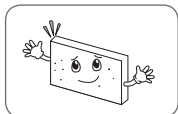
▶ **Screen size can be changed.**

The screen size may be fitted to the first dark scene depending on contents.

### About MPDP display panel

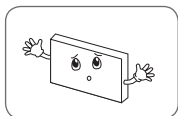
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The followings are phenomena caused by characteristics of the MPDP display panel. Since it is not any failure, you may use it at rest.



▶ **Black or twinkling spots on the screen**

Although the MPDP display panel is manufactured with high-precision technology, there may exist black or twinkling spots on the screen. Since it is not any failure, you may use it at rest.



▶ **Noise From the inside**

When you turn on the product, driving sound may be heard from the display panel. Since it is not any failure, you may use it at rest.

# Unpacking and Setup

## Scope of Supply

Please check, that the delivery is complete.

1 Manual



2 Remote control & Batteries (AA x 2)



3 Power Cord



4 VGA Cable (Optional)

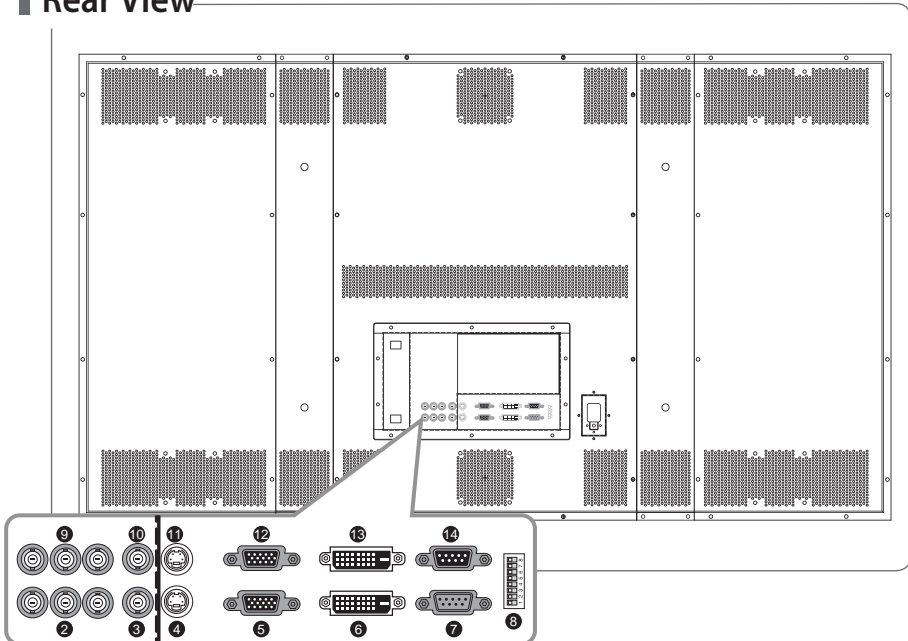


5 Serial Cable (Optional)



## Viewing the control

### Rear View



1 Power Input

2 Component Video (Y Pb Pr) Input

3 Composite Video Input

4 S-Video Input

5 PC (RGB) Input

6 PC (DVI-D) Input

7 RS-232C Input

8 ID No(DIP Switch)

9 Component Video (Y Pb P r) Output

10 Composite Video Output








11 S-Video Output

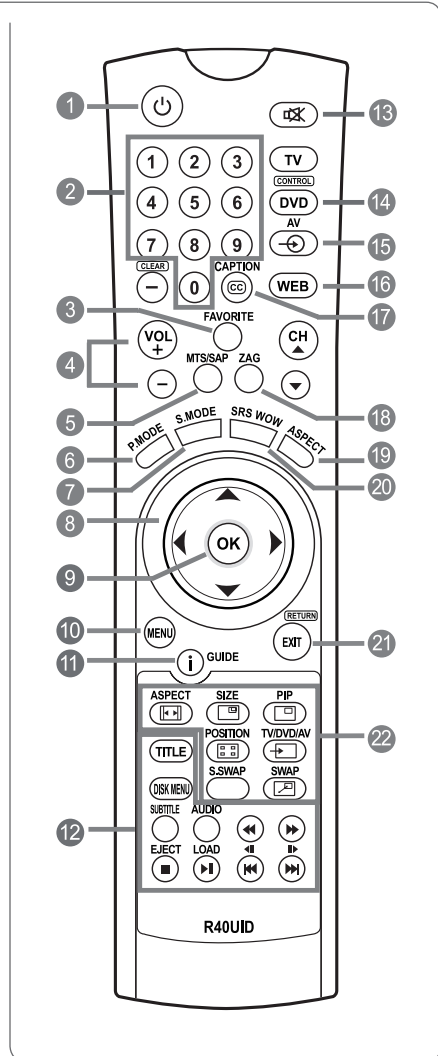
12 PC (RGB) Output

13 PC (DVI-D) Output

14 RS-232C Output

# Remote Control

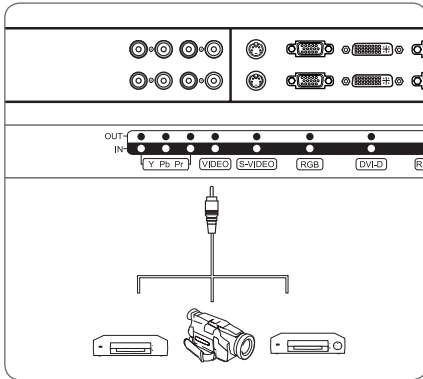
- 1 Power On/Off button
- 2 Numeric buttons
- 3 Favorite Channel Selection
- 4 Volume Up/Down
- 5 Sound Selection (Mono/Stereo/SAP)
- 6 Picture Mode Selection
- 7 Sound Mode Selection
- 8 Control the Cursor in the OSD Menu
- 9 MENU Confirmation
- 10 Display OSD Menu
- 11 Information Display
- 12 DVD Player Function Buttons  
(Available in the model that has a built-in DVD Player)
- 13 Temporary Sound Mute
- 14 DVD Player Function  
(Available in the model that has a built-in DVD Player)
- 15 External Source Input Selection
- 16 Internet/Media Player Function
- 17 Closed Captions
- 18 Previous Channel
- 19 Picture Size Selection
- 20 SRS WOW Selection
- 21 Exit from the OSD
- 22 PIP Functions:
  - PIP On/Off (  )
  - Size Selection (  )
  - PIP Picture Size Selection (  )
  - Selecting the Input Monitor/DVD/AV (  )
  - Position Selection (  )
  - Swapping main and sub picture (  )
  - Swapping main and sub Sound (  )



# Connection and start Operation

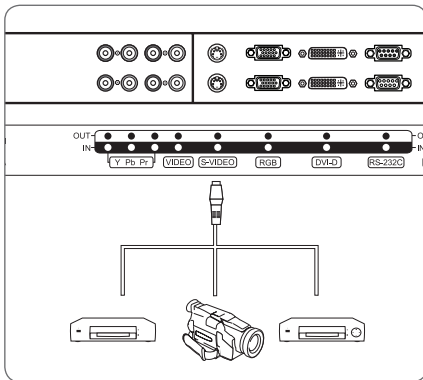
## ■ Connecting the Cables

You can use the Monitor set to connect camcorder and video games. Use the cinch sockets on the rear side of the unit.



### ■ Connecting the AV Cable

- 1 Connect the AV cable to the sockets [VIDEO] and the output sockets of the external devices.

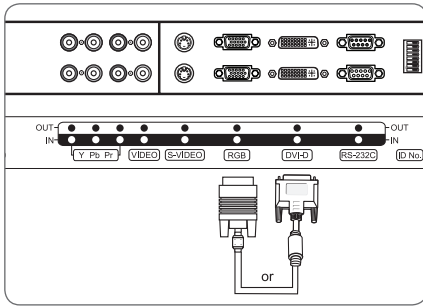


### ■ Connecting the S-Video Cable

- 1 Connect the S-Video cable to the socket [S-VIDEO] on the rear side of the unit and the output sockets of the external devices.

## ■ Connecting to a Computer

Use a 15-pin D-Sub cable or DVI-D cable to connect the T ÚÚ display panel set to the computer.



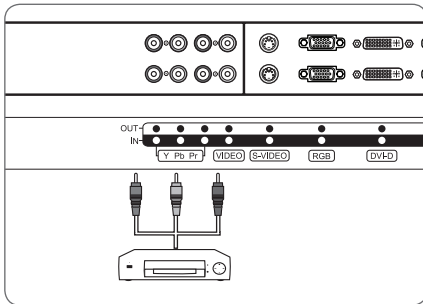
- 1 Plug the cable into the output socket of the graphic board.
- 2.. Plug the other end of the cable into the socket [RGB] or [DVI-D].
- 3.. Adjust the settings of the Monitor picture corresponding to the settings for Monitor operation. See “Settings” on page 10.



. If the A D8 D display panel does not receive any signal, adjust the output of the computer. For information on how to setup the computer, refer to the corresponding manual of the computer.

## ■ Connecting to External Devices with Component Input

You can use the T ÚÚ display panel to connect DVD recorder/player and set-top-box. Connect the audio and video cables from the external equipment's output jacks to the T ÚÚ display panel input jacks, as shown in the figure. When connecting the T ÚÚ display panel to external equipment, match the jack colours.



### ■ Connecting to External Devices

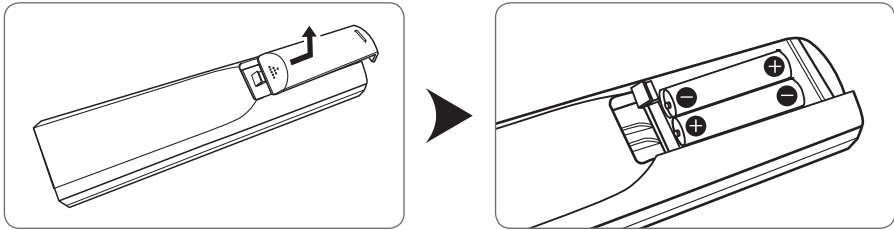
- 1 Plug the video cable according into the colours to the output sockets of the external devices.
- 2 Plug the other end of the video cable according to the colours into the [Y, Pb, Pr] sockets on the T ÚÚ display panel.

## ■ Connecting Several Devices

You can use the connections described parallel . On how to select the desired source see “Select Source” on page 20 and “Select Signal Source for PIP” on page 20.

## ■ Inserting the Batteries

For the operation of the remote control 2 type R03 1.5V Size AA batteries are included in the delivery.



1 Remove the cover on the back of the remote control and insert the batteries.

## ■ Notes on Handling Batteries

When used properly batteries are a safe and reliable source of energy. However, when misused or not used according to the intention, they may leak. In extreme cases there is a danger of explosion or fire. Therefore please understand that the manufacturer will not be liable in case of misuse or improper use. For detailed information on how to handle the batteries, please contact the respective manufacturer.



- When inserting the batteries, ensure the polarity is matched correctly .  
..(+.and.-.marking.on.the.battery.and.on.the.unit)..
- Never try to recharge non-rechargeable batteries.




Disposal.of.batteries.is.clearly.regulated.by.legal.acts..Consumer.quantities..of.batteries.must.be.taken.back.by.the.dealer.or.by.local.public.collectors..Never.discharge.batteries.together.with.common.waste..Make.use.of.the.free.public.collection.system!.Protect.your.environment..Return.used.batteries.

# Settings

## Switching on

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1 Press the power switch on the back of the unit.

2 Press  on the remote control.

This switches the unit on and it can be operated using the remote control.



If it is not explicitly stated otherwise, it will be assumed that the unit and the MPDP display panel set are switched on and will be operated by the remote control.



By default, the unit is set to the English language. For information on how to change the on-screen language later, refer to: "Set Screen Language" on page 18.

## Switching Off

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### Stand by

1 Press  on the remote control.



Please note that the unit also consumes a little power when in stand by mode.

### Switch Stand by Off

1 Press the power switch on the back of the unit.

Now the unit is switched off completely and does not consume any power.

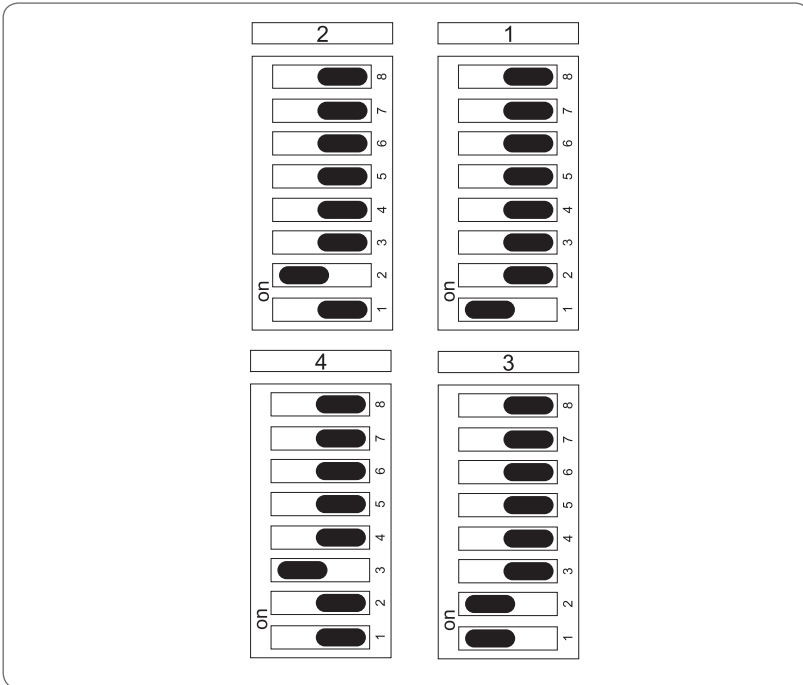
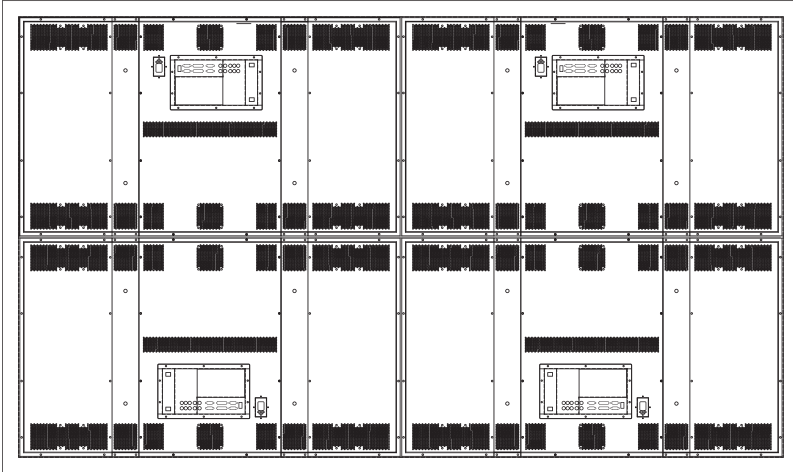
## Setting up for Operation

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You can adjust various settings of the unit to adapt it to your requirements.

## Setting ID of 2x2 MPDP display panel

Identity number(ID) indicates the location of each MPDP display panel.



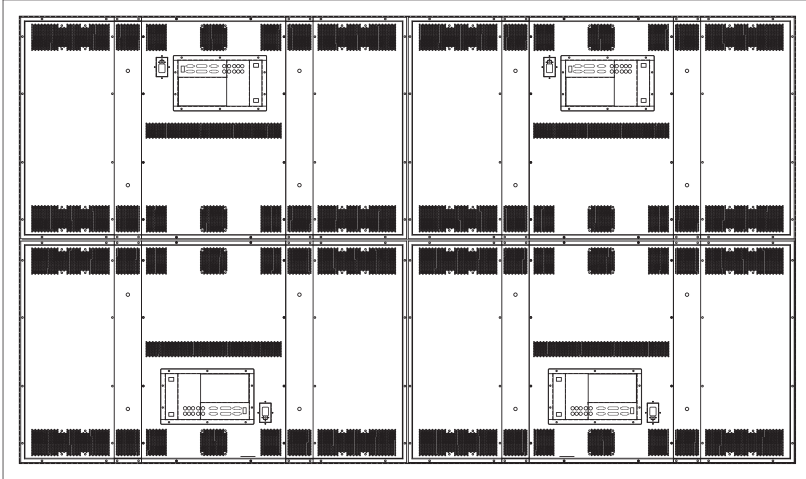


## ■ Connection ID of 2x2 MPDP display panel

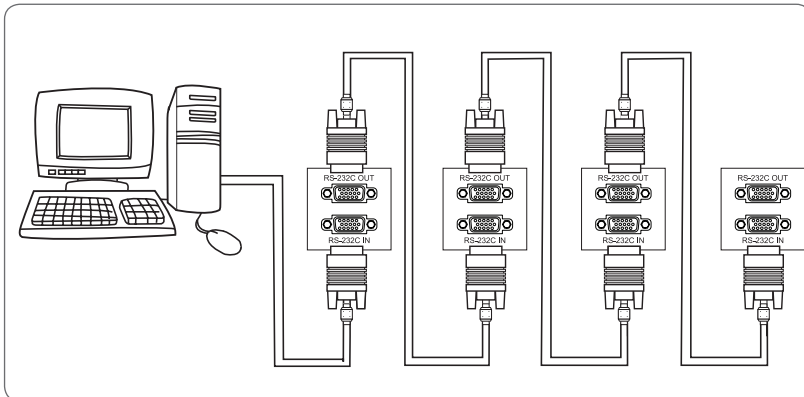
When connecting a number of MPDP Display Panel through Displaychain(Link), surrounding noise may come out lower the image quality.

Daisy chain can connect with MPDP display panel to maximum 16EA.

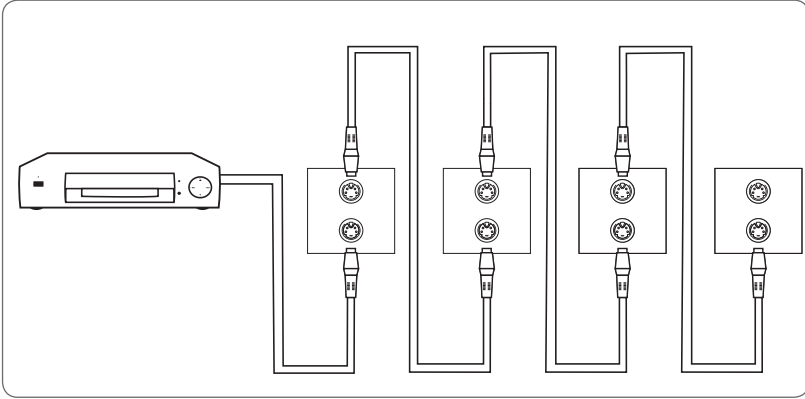
But, If you need additional connection, you must connect daisy chainusing distributor.



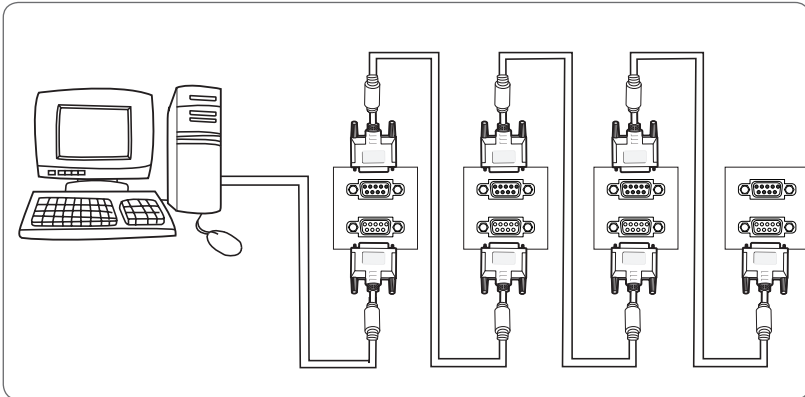
## ■ Connecting RS-232C Cable



### ■ Connecting S-video Cable

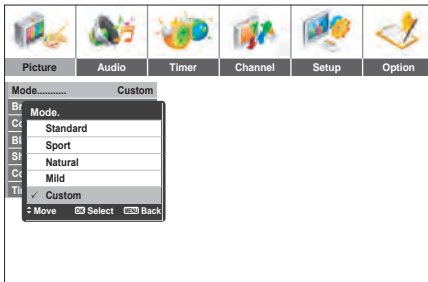


### ■ Connecting VGA Cable



## Set Screen Language

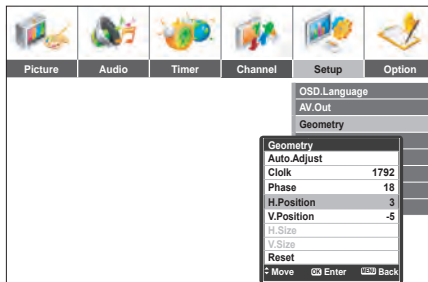
The screen display text can be displayed in several languages. Use this function to set screen language. By default, the unit is set to the english language.



- 1 Press **MENU**.
- 2 Press **◀** or **▶** and select **Setup**.
- 3 Press **▲** or **▼** and select **OSD.Language**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired setting.
- 6 Press **OK** to save the setting.
- 7 Press **EXIT**.

## Set Geometry

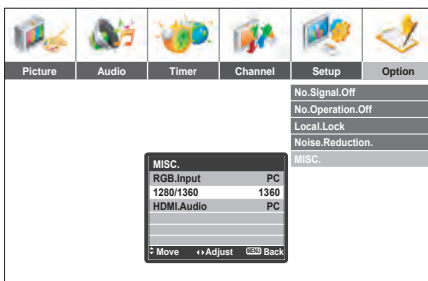
Use this function to adjust screen status.



- 1 Press **MENU**.
- 2 Press **◀** or **▶** and select **Setup**.
- 3 Press **▲** or **▼** to select **Geometry**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select the desired menu.  
♦ If you want to reset to the factory default settings, select "Reset" and press **OK**.
- 6 Press **◀** or **▶** to adjust desired setting.
- 7 Press **EXIT**.


## Set MISC.

### ■.Set.RGB.Input.(Video.or.PC)




- 1 Press **MENU**.
- 2 Press **◀** or **▶** to select **Option**.
- 3 Press **▲** or **▼** to select **MISC**.
- 4 Press **OK**.
- 5 Press **▲** or **▼** to select **RGB.Input**.
- 6 Press **◀** or **▶** to select desired setting.
- 7 Press **EXIT**.

### ■ **Set.Video.Resolution.(1280/1360)**

- 1 Repeat steps from 1 to 4 in chapter “Set MISC.”
- 2 Press ▲ or ▼ to select **1280/1360**.
- 3 Press ◀ or ▶ to select desired setting.
- 4 Press .

### ■ **Set.the.Audio.Input.(HDMI.or.PC)**

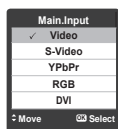
- 1 Repeat steps from 1 to 4 in chapter “Set MISC.”
- 2 Press ▲ or ▼ to select **HDMI.Audio**.
- 3 Press ◀ or ▶ to select desired setting.
- 4 Press .

◆ *When connecting the PC to your Monitor with the HDMI/DVI cable, you should select PC.*

## ■ **Select Source (Main Input)**

---

Use this function to select which signal will be displayed on the main screen, if you have connected several sources (e.g. a decoder and a roof aerial).



- 1 Press .

## ■ Watch Programs at the Same Time (PIP)

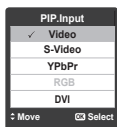
Use this function to display a second picture. In this way you can watch two programs you are receiving by antenna or by the other inputs at the same time. You can display on large and on small picture or two pictures of the same size. You can adapt the size and the position of the small one picture.

### ■ Display Second Picture


1 Press .

### ■ Select Signal Source for PIP

Use this function to select which signal to display on the sub screen, if you have connected several sources.



1 Press .

Whenever you press , you can choose the external signal source excluding the chosen signal source on the main picture.

|                     | Video | S-Video | Component (Y/Pb/Pr) | RGB | DVI |
|---------------------|-------|---------|---------------------|-----|-----|
| Video               | X     | O       | O                   | O   | O   |
| S-Video             | O     | X       | O                   | O   | O   |
| Component (Y/Pb/Pr) | O     | O       | X                   | O   | O   |
| RGB                 | O     | O       | O                   | X   | O   |
| DVI                 | O     | O       | O                   | O   | X   |

### ■ Select Signal Source for PIP


1 Press .

This function is only available if you have selected a signal source for the main screen and the sub screen.

### ■ Switch Second Picture Off

1 Press  several times.

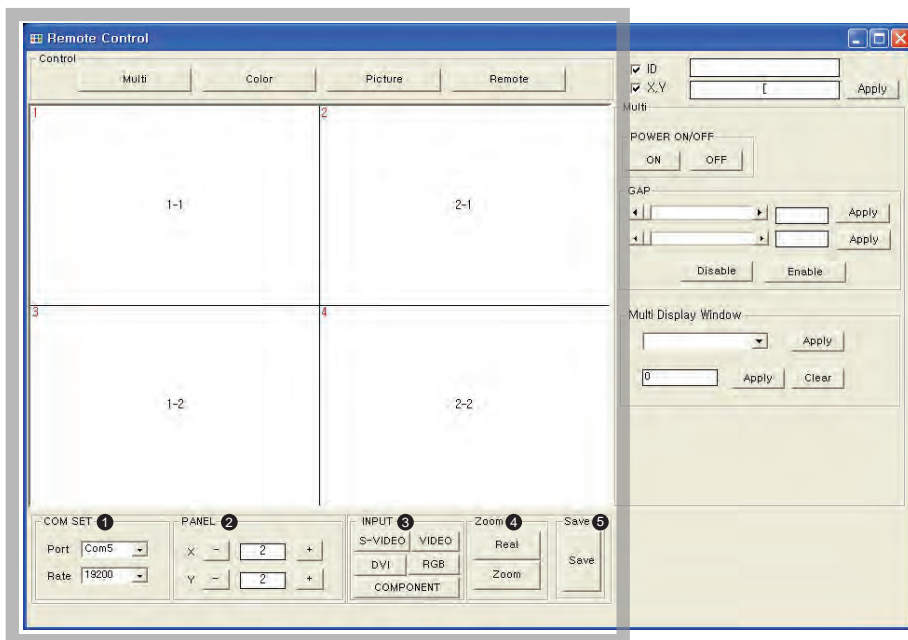
### ■ Display Two Pictures at the same Time

1 Press  several times.

This function is only available if you have selected a signal source for the main screen and the sub screen.

# Remote Control

## Default Display



### 1 COM SET

*Communications Port Setup*

### 2 PANEL

*Multi Screen Setup*

Set up screen numbers on X-Axis

Set up screen numbers on Y-Axis

### 3 INPUT

*Select input source*

Select input source on chosen screen

### 4 ZOOM

*Display enlargement / reduction*

Real : Display full screen on each panel

Zoom : Display full screen on 2x2

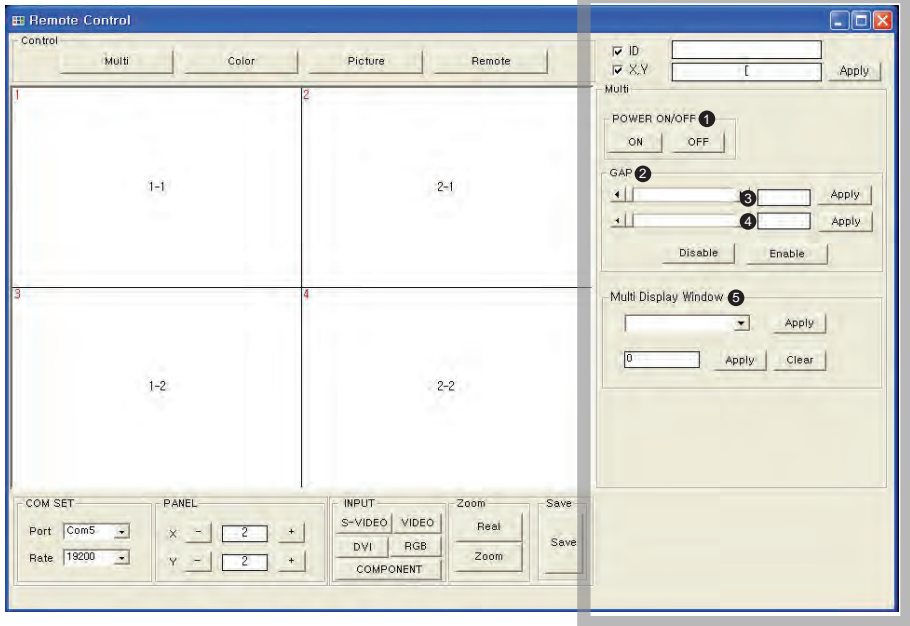
### 5 SAVE

Save settings

※ To adjust settings, you should press "Apply" key.

# Remote Control

## Multi Tap



### ❶ POWER ON/OFF

Turn on/off the screen that you choose.

### ❷ GAP

Set up gap between screens.

❸ : Fix gap up-and-down.

❹ : Fix gap left-and-right.

### ❸ Multi Display Window

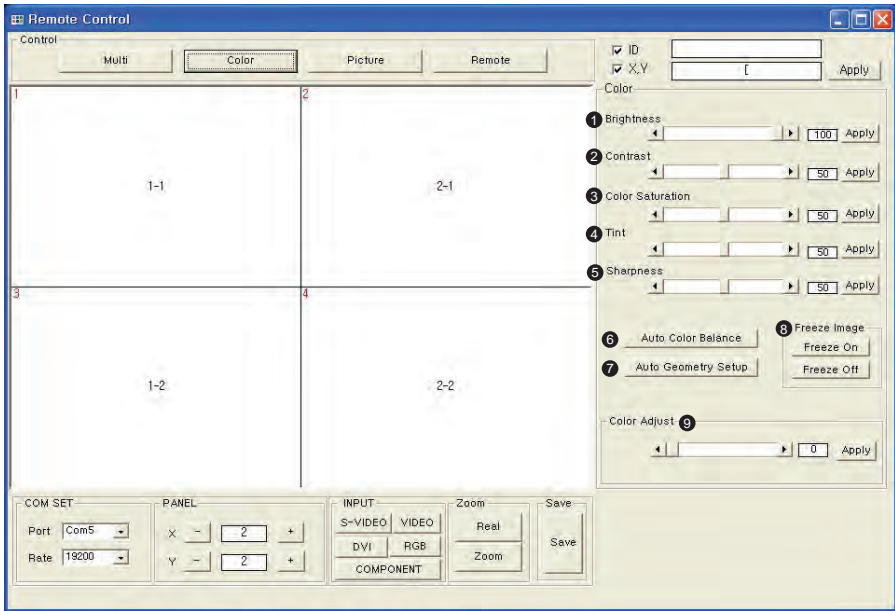
APL Code

To set up the screen moves under the same brightness when it zooms.

It is automatically set up when you press the "zoom" key, and if you add optional code, choose the code value and press the "Apply" button.

# Remote Control

## Color Tap



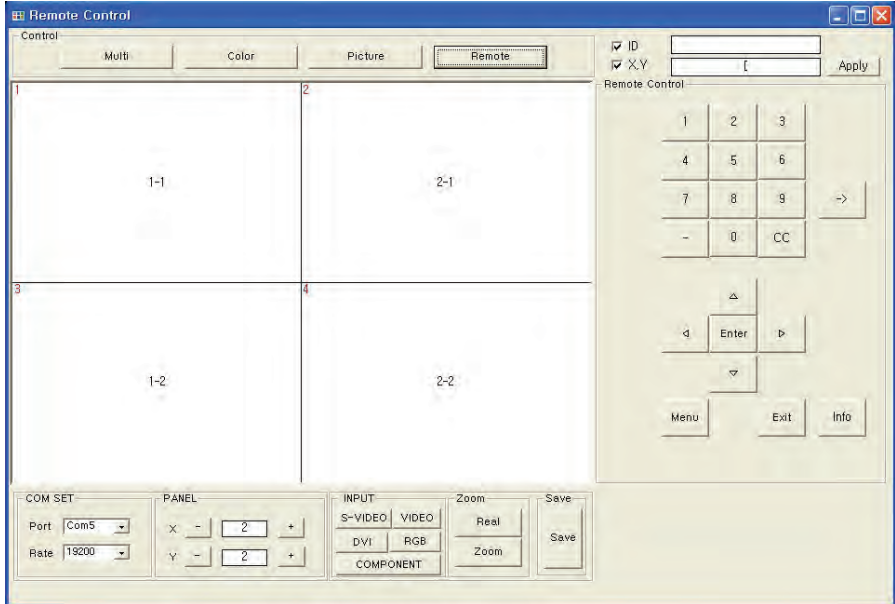
- ❶ **Brightness**  
Adjust brightness on screen.
- ❷ **Contrast**  
Adjust contrast on screen.
- ❸ **Color Saturation**  
Adjust color saturation on screen.
- ❹ **Tint**  
Adjust tint on screen.
- ❺ **Sharpness**  
Adjust Sharpness on screen.
- ❻ **Auto Color Balance**  
Adjust color balance automatically.
- ❼ **Auto Geometry Setup**  
Setup auto positioning in "RGB" mode.  
( When auto geometry setup, it should be in full-screen )
- ❽ **Freeze Image**  
Show freeze-frame.  
( But, actually screen is running. )
- ❾ **Color Adjust**  
Adjust color of screen.  
( 20 is Normal )

※ 3V<sub>gef</sub> white balance should be performed in Remote tap.



# Remote Control

## Remote Tap



- In addition to set up of "Multi", "Color", "Picture" Tap, Remote Tap can substitute for the operation of remote control unit for additional adjustment.

- Factory Mode

Choose "Set" for Factory Mode.

Click "Menu" button → Click "Option" button → Click "1-4-4-6" button

→ Information window is set up for actual operation in the upper screen of left side

→ Click "Enter" → Get ready to enter "Factory Mode"

- Choose "Expert", be able to adjust white balance with R, G, B

- To initialize, choose "Factory Reset"

# Troubleshooting

If there are problems with the unit, please check the following points before contacting the technical service.



**Never open the unit. This may lead to electric shocks and will void the warranty.**

|   |  |
|---|--|
| <b>No.Picture.or.Sound</b>                    | <ul style="list-style-type: none"><li>• Make sure the receiver and the MPDP display panel set are both connected to the power.</li></ul>   |
| <b>Black.Screen</b>                           | <ul style="list-style-type: none"><li>• Check whether a signal source is selected. See chapter "Select Source" on page 20 and "Select MMC" on page 20.</li></ul>   |
| <b>Remote.Control.Does.Not.Work</b>           | <ul style="list-style-type: none"><li>• Make sure the unit is connected to the power source.</li><li>• Check whether the batteries are inserted correctly and whether they are sufficiently charged. To do this, insert new batteries for testing.</li></ul> |
| <b>Message."No.Signal."</b>                   | <ul style="list-style-type: none"><li>• Check whether the connecting cable is properly connected to the computer and the respective sockets.</li></ul>   |
| <b>Message."Video.not.Supported"</b>          | <ul style="list-style-type: none"><li>• The resolution or the frequency of the graphic board in the computer cannot be displayed. Change the settings in the computer.</li></ul>   |
| <b>Picture.Scrolls.Vertically</b>             | <ul style="list-style-type: none"><li>• Check whether the connecting cable is properly connected to the computer and the respective sockets.</li></ul>   |
| <b>Parts.of.the.Picture.are.not.Displayed</b> | <ul style="list-style-type: none"><li>• Check the resolution and the frequency of the graphic board in the computer. Adjust the settings. See chapter "Settings" on page 10.</li></ul>   |
| <b>Picture.Too.Small.or.Too.Large</b>         | <ul style="list-style-type: none"><li>• Adjust the settings. See chapter "Settings" on page 10.</li></ul>  |

# Technical Specifications

| Screen Size (inch)                   | 60"                           | 120"                            |
|--------------------------------------|-------------------------------|---------------------------------|
| Resolution                           | 1365 (H) × 768 (V)            | 2,730 (H) × 1,536 (V)           |
| Display Area (mm)                    | 1,318.6 (H) × 741.9 (V) ± 0.5 | 2,641.2(H) × 1,487.8 (V) ± 1.0  |
| Outline Dimension (mm)               | 1,357.8 (H) × 783.4 (V) ± 1.0 | 2,715.6 (H) × 1,566.8 (V) ± 1.0 |
| Weight (kg)                          | 23.7 ± 1.0                    |                                 |
| Number of Gradations                 | 10 bit / 1,073 billion colors |                                 |
| Aspect Ratio                         | 16:9                          |                                 |
| Peak Brightness (cd/m <sup>2</sup> ) | 1,500                         |                                 |
| Contrast Ratio                       | Bright Room                   | Average 90:1 <sup>(†)</sup>     |
|                                      | Dark Room                     | Typical 1,000,000:1             |
| Power Consumption (W)                | Typical 490W                  |                                 |
| Expected Life -time                  | 60,000 hrs                    |                                 |

(†) Included 3.8mm seam

‡) Condition: In a bright room with 100 Lux at center

| Input Condition             |   |
|-----------------------------|---|
| Input Voltage               | AC 100V to AC 240V (AC90V to AC 264V available) |
| Input Current               | 6.4A at AC 100V to 240V, 50/60Hz                |
| Normal Frequency            | 50 / 60Hz (47Hz to 63Hz available)              |
| 17 Voltage / Rated Current  | 2.0A / Min. 0A, Max. 3.0A                       |
| 5.1 Voltage / Rated Current | 3.0A / Min. 0.1A, Max 5.0A                      |
| Stand -by                   | 5.0 Voltage                                     |
|                             | 1.0A / Min. 0A, 2.0A                            |

# Memo

