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| 虹 欧<br>Creater Of Colourful Lives | 规格书名称                   | PM42H3000  | 模组客户规格书           | 修订编号<br>(REV. No)                | 0. 0          |
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|                                   | 四川<br>sichua            | 红欧显示       | 器件有限              | 【公司<br>., LTD.                   |               |
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|                                   |                         | PM42I      | 13000             |                                  |               |
| ļ                                 | 购买者名称<br>BUYER NAME     | 2          | 供应者<br>SUPPLYER   | SICHUAN COC DI<br>DEVICES CO., I | SPLAY<br>.TD. |
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One step solution for LCD / PDP / OLED panel application: Datasheet, inventory and accessory! www.panelook.com

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One step solution for LCD / PDP / OLED panel application: Datasheet, inventory and accessory! www.panelook.com

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| <b>虹欧</b><br>Creation Of Colonarphia Litres | 规格书名称                   | PM42H3000模组客户规格书 | 修订编号<br>(REV. No)  | 0. 0        |
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CAUTION indicates hazards that may lead to injury or damage to property if ignored.



- 1) This product uses a high voltage (450 V max.). Do not touch the circuitry of this product with your hands when power is supplied to the product or immediately after turning off the power. Be sure to confirm that the voltage is dropped to a sufficiently low level.
- 2) Do not supply a voltage higher than that specified to this product. This may damage the product and may cause a fire.
- 3) Do not use this product in locations where the humidity is extremely high, where it may be splashed with water, or where flammable materials surround it. Do not install or use the product in a location that does not satisfy the specified environmental conditions. This may damage the product and may cause a fire.
- 4) If a foreign substance (such as water, metal, or liquid) gets inside the product, immediately turn off the power. Continuing to use the products it may cause fire or electric shock.
- 5) If the product emits smoke, an abnormal smell, or makes an abnormal sound, immediately turn off the power. If nothing is displayed or if the display goes out during use, immediately turn off the power. Continuing to use the product as it is may cause fire or electric shock.
- 6) Do not disconnect or connect the connector while power to the product is on. It takes some time for the voltage to drop to a sufficiently low level after the power has been turned off. Confirm that the voltage has dropped to a safe level before disconnecting or connecting the connector. Otherwise, this may cause fire, electric shock, or malfunction.
- 7) Do not pull out or insert the power cable from/to an outlet with wet hands. It may cause electric shock.
- 8) Do not damage or modify the power cable. It may cause fire or electric shock.
- 9) If the power cable is damaged, or if the connector is loose, do not use the product; otherwise, this can lead to fire or electric shock.
- 10) If the power connector or the connector of the power cable becomes dirty or dusty, wipe it with a dry cloth. Otherwise, this can lead to fire.

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|   | Creator Of Colourful Lives |

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## 🗆 General

- 1) Do not place this product in a location that is subject to heavy vibration, or on an unstable surface such as an inclined surface. The product may fall off or fall over, causing injuries.
- 2) When moving the product, be sure to turn off the power and disconnect all the cables. While moving the product, watch your step. The product may be dropped or fall, leading to injuries of electric shock.
- 3) Before disconnecting cable from the product, be sure to turn off the power. Be sure to hold the connector when disconnecting cables. Pulling a cable with excessive force may cause the core of the cable to be exposed or break the cable, and this can lead to fire or electric shock.
- 4) This product should be moved by two or more persons. If one person attempts to carry this product alone, he/she may be injured.
- 5) This product contains glass. The glass may break, causing injuries, if shock, vibration, heat, or distortion is applied to the product.
- 6) The temperature of the glass surface of the display may rise to 80°C or more depending on the conditions of use. If you touch the glass inadvertently, you may be burned.
- 7) Do not poke or strike the glass surface of the display with a hard object. The glass may break or be scratched. If the glass breaks, you may be injured.
- 8) If you glass surface of the display breaks or is scratched, do not touch the broken pieces or the scratches with bare hands. You may be injured.
- 9) Do not place an object on the glass surface of the display. The glass may break or be scratched.

## Design

- 1) This product may be damaged if it is subject to excessive stresses (such as excessive voltage, current, or temperature). The absolute maximum ratings specify the limits of these stresses, and system design must ensure that none of the absolute maximum ratings are exceeded.
- 2) The recommended operating conditions are conditions in which the normal operation of this product is guaranteed. All the rated values of the electrical specifications are guaranteed within these conditions. Always use the product within the range of the recommended operating conditions. Otherwise, the reliability of the product may be degraded. Use of the product with a combination of parameters, conditions, or logic not specified in the specifications of this product is not guaranteed. If intending to use the product in such a way, be sure to consult COC in advance.
- 3) This product emits near infrared rays (800 to 1000nm) that may cause the remote controllers of other electric products to malfunction. To avoid this, use an infrared absorption filter and thoroughly evaluate the system and environment.
- 4) This product uses high-voltage switching and a high- speed clock. A system using this product should be designed so that it does not affect the other systems, and should be thoroughly evaluated.
- 5) The materials which contain sulfur are forbidden to use, because they may damage PDP module.
- 6) This product has a glass display surface. Design your system so that excessive shock and load are not applied to the glass. Exercise care that the vent at the corner of the glass panel is not damaged. If the glass panel or vent is damaged, the product is inoperable.
- 7) There are some exposed components on the rear panel of this product. Touching these components may cause an electric shock.

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- 8) This product uses a high voltage. Design your system so that any residual voltage in this product is dissipated quickly when power is turned off, observing the specifications.
- 9) This product uses heat-emitting components. Take the heat emitted by these components into consideration when designing your system. If the product is used outside the specified temperature range, it may malfunction.
- 10) This product uses a high voltage and, because of its compact design, components are densely mounted on the circuit board. If dust collects on these components, it can cause short-circuiting between the pins of the components and moisture can cause the insulation between the components to break down, causing the product to malfunction.
- 11) Regulations and standards on safety and electromagnetic interference differ depending on the country. Design your system in compliance with the regulations and standards of the country for which your system is intended.
- 12) To obtain approval under certain safety standards (such as UL and EN), a filter that passes a shock test must be fitted over the glass surface of the finished product. In addition, it must be confirmed that the level of UV emissions is within the range specified by such standards.
- 13) If this product is used as a display board to display a static image, " image sticking" occurs. This means that the luminance of areas of the display that remain lit for a long time drops compared with the luminance of areas that are lit for a shorter time, causing uneven luminance across the display. The degree to which this occurs is in proportion to the luminance at which the display is used. To prevent this phenomenon, therefore, avoid static images as much as possible and design your system so that it is used at a low luminance, by reducing signal level difference between bright area and less bright area through signal processing.
- 14) Within the warranty period, general faults that occur due to defects in components such as ICs will be rectified by COC without charge. However, IMAGE STICKING is not included in the warranty. Repairs due to the other faults may be charged for depending on responsibility for the faults.
- 15) In case of AC PDP driving mechanism, because the brightness of output is not always proportional to input signals. Therefore the non-linearity of gray can occasionally be observed in certain gray levels as well as Contour and Error Diffusion Noise can be appeared when a dark picture is on the screen especially. These are phenomena that can be observed on the PDP driving mechanism. With simple adjustment to picture brightness control, these can be reduced considerably.
- 16) Because of the need to control the power consumption on the PDP driving mechanism, the APL(Average Picture Level) mode was equipped. Thus, as the picture on the screen changes, there can be slightly switched in brightness. This also is a phenomenon that can be observed on the PDP driving mechanism.
- 17) This product is designed to COC's "Standard" quality grade. If you wish to use the product for applications outside the scope of the "Standard" quality grade, be sure to consult COC in advance to assess the technological feasibility before starting to design your system.
- Use Use
- Because this product uses a high voltage, connecting or disconnecting the connectors while power is supplied to the product may cause malfunctioning. Never connect or disconnect the connectors while the power is on. Immediately after power has been turned off, a residual voltage remains in the product. Be sure to confirm that the voltage has dropped to a sufficiently low level.
- 2) Watching the display for a long time can tire the eyes. Take a break at appropriate intervals.
- 3) PDP' s brightness and contrast ratio is lower than that of the CRT. The picture is dimmer with surrounding light and better for viewing in dark condition.
- 4) Do not cover or wrap the product with a cloth or other covering while power is supplied to the

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|                                      | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

product.

- 5) Before turning on power to the product, check the wiring of the product and confirm that the supply voltage is within the rated voltage range. If the wiring is wrong or if a voltage outside the rated range is applied, the product may malfunction or be damaged.
- 6) Do not store this product in a location where temperature and humidity are high. This may cause the product to malfunction. Because this product uses a discharge phenomenon, it may take time to light (operation may be delayed) when the product is used after it has been stored for a long time. In this case, it is recommended to light all cells for about 2 hours (aging).
- 7) If the glass surface of the display becomes dirty, wipe it with a soft cloth moistened with a neutral detergent. Do not use acidic or alkaline liquids, or organic solvents.
- 8) Do not tilt or turn upside down while the module package is carried, the product may be damaged.
- 9) This product is made from various materials such as glass, metal, and plastic. When discarding it, be sure to contact a professional waste disposal operator.

#### **Repair and Maintenance**

Because this product combines the display panel and driver circuits in a single module, it cannot be repaired or maintained at user' s office or plant. Arrangements for maintenance and repair will be determined later.

#### □ Others

- 1) If your system requires the user to observe any particular precautions, in addition to the above warnings and cautions, include such caution and warning statements in the manual for your system.
- 2) If you have any questions concerning design, such as on housing, storage, or operating environment, consult COC in advance.

SICHUAN COC DISPLAY DEVICES CO., LTD.

PM42H3000模组客户规格书

(REV. No)

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| 修订编号               |             |

# **1. GENERAL DESCRIPTION**

规格编号 No. (SPEC. No.)

规格书名称

SPEC NAME

### **DESCRIPTION**

The PM42H3000 is a 42-inch 16:9 color plasma display module with resolution of 1024(H)  $\times$ 

768(V) pixels.

This is the display device which offers vivid colors with adopting AC plasma technology by COC.

## **FEATURES**

High peak brightness (500cd/m2 Typical) and high contrast ratio (10,000:1 Typical) enables user to create high performance PDP SETs.

### □ APPLICATIONS

- Public information display
- Video conference systems
- Education and training systems

### □ ELECTRICAL INTERFACE OF PLASMA DISPLAY

The PM42H3000 requires only 8/10 bits of digital video signals for each RGB color. The PM42H3000 is equipped with P-CUBE function which analyzes display signals to optimize system control factor for showing the best display performance.

### □ GENERAL SPECIFICATIONS

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| <b>虹欧</b> 规格书名  | 称 PM42H30   | 00模组客户规格   | 修订编<br>(REV. N   | 号    0.<br>No)     | 0     |
| SPEC NA   | ME  |  | 总页数<br>(TOTA   | 牧<br>AL 4          | 2     |
| <ul> <li>Model Name</li> <li>Number of Pixels</li> <li>Pixel Pitch</li> <li>Cell Pitch</li> <li>Display Area</li> <li>Outline Dimension</li> <li>Pixel Type</li> <li>Number of Gradations</li> <li></li></ul> | : PM42H3000<br>: 1024(H) × 768(V) (<br>: 912 $\mu$ m (H) × 693 $\mu$ m<br>: 304 $\mu$ m (H) × 693 $\mu$ m<br>: 933.9(H) × 622.0 (<br>: 1175 (H) × 532.2<br>: RGB Closed (Well)<br>: 10bit (R) 1,024 × (G) T<br>8bit (R) 256 × (G) 256<br>5±0.5 Kg (Net 1EA)<br>9<br>pical 500cd/m <sup>2</sup> (1/100 W<br>erage 180:1 (In a bright r<br>pical 10,000:1 (In a dark<br>Max. 200W<br>Warranty life time 100,00<br>st Pixel 2nd Pixel column<br>912 $\mu$ m<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>G R B G R B G R B G<br>S R B G R B G R B G<br>S R B G R B G R B G<br>S R B G R B G R B G<br>S R B G R B G R B G<br>S R B G R B G R B G<br>S R B G R B G R B G<br>S R B G R B G R B G R B G<br>S R B G R B G R B G R B G R B G<br>S R B G R B G R B G R B G R B G R B G R<br>S R B G R B G R B G R B G R B G R<br>S R B G R B G R B G R B G R B G R B G R B G R<br>S R B G R B C R B C R B C R B C R B C R R B C R R B C R R B C R R B C R R B C R R B C R R B C R | 1pixel=3 RGB cells)<br>(V)<br>(V)<br>(V) $\pm 0.5$ mm<br>(V) $\times 49(D) \pm 1$ mm<br>type<br>1,024 $\times$ (B) 1,024 color<br>$\times$ (B) 256 colors (16.78<br>/hite Window pattern at<br>com with 100Lux at cert<br>room 1/100 White Window<br>00 Hours with continuou<br>et<br>Cell Pitch (width)<br>Cell Pitch (wi | rs (1.073 billion)<br>million)<br>center)<br>dow pattern at center<br>us operation<br>B G R<br>B G R | enter)             |       |

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|                                   | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

- 1. Side by Side
- 2, Line by Line(vertical)
- 3. Line by Line(Horizontal)
- 4. Pixel by Pixel

# 2. Electrical Specifications

### □ Input power Specifications

| Output | Output         | Variable<br>Voltage | Voltage       | Output Current (Amean) |      |      | *3 <b>Ripple</b>  |                  |  |
|--------|----------------|---------------------|---------------|------------------------|------|------|-------------------|------------------|--|
| Name   | Typical<br>[V] | Range<br>[V]        | Tolerance [%] | Min.                   | Nor. | Max. | & Nose<br>[mVp-p] | Remark           |  |
| 5VSTB  | 5.2            | Fixed               | ±5            | 0                      | 0.3  | 0.5  | 120               |                  |  |
| D5V    | 5.2            | Fixed               | ±5            | 0                      | 2.0  | 3.0  | 120               | For AV Boar<br>d |  |
| D15V   | 15.5           | Fixed               | ±5            | 0                      | 2.0  | 2.5  | 200               |                  |  |
| D5V    | 5.2            | Fixed               | ±5            | 0                      | 1.0  | 2.0  | 120               |                  |  |
| D15V   | 15.5           | Fixed               | ±5            | 0                      | 0.3  | 0.5  | 200               | For Module       |  |
| VA     | 56             | 53 ~ 57             | ±2            | 0                      | 0.5  | 1.0  | 500               |                  |  |
| VS     | 210            | 205 ~ 215           | ±2            | 0                      | 0.8  | 1.3  | 700               |                  |  |

\*1. PDP Module Maximum Power is below 200W.

[Note]

1. Earth Leakage current

The power supply leakage current shall be less than 0.5mA

**Power Sequence** 

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LVDS Signal Pin Assignment

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|                                   | SPEC N                  | NAME          |                |                  |       | 总页数<br>(TOTAL      | 42       |
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|                                   |                         | Pa            | rt_Number : 10 | 01-65231 (C_NET) |       |                    |          |
| _                                 |                         |               | <u> </u>       |                  |       |                    | -        |
| P                                 | in. No                  |               | Symbol         | Pin. No          |       | Symbol             |          |
|                                   | 1                       |               | G              | 17               |       | NC                 |          |
|                                   | 2                       |               | G              | 18               |       |                    |          |
|                                   | 3                       |               | RA-            | 19               |       | RD-                |          |
|                                   | 4                       |               | KA+            | 20               |       | КD+<br>            |          |
|                                   | 5                       |               | G              | 21               |       |                    |          |
|                                   | 7                       |               | <br>           | 22               |       | PF_                |          |
|                                   | ,<br>8                  |               | RB+            | 23               |       | RE+                |          |
|                                   | 9                       |               |                | 25               |       | NLNP               |          |
|                                   | 10                      |               | NC             | 26               |       | G                  |          |
|                                   | 11                      |               | RC-            | 27               |       | Sclk               |          |
|                                   | 12                      |               | RC+            | 28               |       | G                  |          |
|                                   | 13                      |               | G              | 29               |       | Sdata              |          |
|                                   | 14                      |               | G              | 30               |       | G                  |          |
|                                   |                         |               |                |                  |       |                    |          |
|                                   | 15                      |               | Rclk-          | 31               |       | NC                 |          |

X RF-/+ is 12bit DATA (not used no connect)

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NC

G

NC

NC

SCLK

G

**SDATA** 

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|---------------------|-----------|---------------------|--------------------|-------------|
| 规格书名                | 称  PM42H3 | 8000模组客户规           | 修订编号<br>(REV. No)  | 0.0         |
| SPEC NA             | ME        |                     | 总页数<br>(TOTAL      | 42          |
| T                   | frc LVDs  | connector (Top view | No.1               |             |
| Pin. No             | Symbol    | Pin. No             | Symbol             |             |
| 1                   | NC        | 17                  | RD-                |             |
| 2                   | NC        | 18                  | RD+                |             |
| 3                   | RE-       | 19                  | G                  |             |
| 4                   | RE+       | 20                  | NC                 |             |
| 5                   | RA-       | 21                  | G                  |             |
| 6                   | RA-       | 22                  | <b>3D SYNC</b>     |             |
| 7                   | G         | 23                  | G                  |             |

NOTE)

8

9

10

11

12

13

14 15

16

1. Two LVDS connector are all located in Logic Board. Choose one connector only 2. Pin numbering order:

24

25

26 27

28

29

30

Right to left view from component side of Logic Board

RB-

RB+

G

RC-

RC+

G

Rclk-

Rclk+

G

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|                            | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

# **O LVDS Receiver 8bit**

| Symbol  | Signal Definition and Function | $LSB \sim MSB$ |     |     |      |     |     |     |  |
|---------|--------------------------------|----------------|-----|-----|------|-----|-----|-----|--|
| Symbol  | Signal Definition and Function | 0              | 1   | 2   | 3    | 4   | 5   | 6   |  |
| RA+/-   | Channel-A. Receiver Input      | RE0            | RE1 | RE2 | RE3  | RE4 | RE5 | GE0 |  |
| RB+/-   | Channel-B. Receiver Input      | GE1            | GE2 | GE3 | GE4  | GE5 | BE0 | BE1 |  |
| RC+/-   | Channel-C. Receiver Input      | BE2            | BE3 | BE4 | BE5  | HS  | VS  | DE  |  |
| RD+/-   | Channel-D. Receiver Input      | RE6            | RE7 | GE6 | GE7  | BE6 | BE7 |     |  |
| RE+/-   | Channel-E. Receiver Input      |                |     |     |      |     |     |     |  |
| RF+/-   | Channel-F. Receiver Input      |                |     |     |      |     |     |     |  |
| RCLK+/- | Clock. Receiver Input          |                |     |     | DCLK |     |     |     |  |

## **O LVDS Receiver 10bit**

| Symbol  | Signal Definition and Function | LSB ~ MSB |      |     |     |     |     |     |  |
|---------|--------------------------------|-----------|------|-----|-----|-----|-----|-----|--|
| Symbol  | Signal Definition and Function | 0         | 1    | 2   | 3   | 4   | 5   | 6   |  |
| RA+/-   | Channel-A. Receiver Input      | RE2       | RE3  | RE4 | RE5 | RE6 | RE7 | GE2 |  |
| RB+/-   | Channel-B. Receiver Input      | GE3       | GE4  | GE5 | GE6 | GE7 | BE2 | BE3 |  |
| RC+/-   | Channel-C. Receiver Input      | BE4       | BE5  | BE6 | BE7 | HS  | VS  | DE  |  |
| RD+/-   | Channel-D. Receiver Input      | RE8       | RE9  | GE8 | GE9 | BE8 | BE9 |     |  |
| RE+/-   | Channel-E. Receiver Input      | RE0       | RE1  | GE0 | GE1 | BE0 | BE1 |     |  |
| RF+/-   | Channel-F. Receiver Input      |           |      |     |     |     |     |     |  |
| RCLK+/- | Clock. Receiver Input          |           | DCLK |     |     |     |     |     |  |

NOTE)

RE0~RE9 : 10 bit Red Pixel Video Signal (RE0:LSB, RE10:MSB)

GE0~GE9 : 10 bit Green Pixel Video Signal (GE0:LSB, GE10:MSB)

BE0~BE9 : 10 bit Blue Pixel Video Signal (BE0:LSB, BE10:MSB)

VS : Vertical Video Sync

HS : Horizontal Video Sync

DE : Video Data Enable

□ Input Signal Timing (Non-interlaced Mode)

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Min & max of each signal are measured values when other signal is Typ.

○ Input signal 60Hz specification

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|                            | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

| 60Hz      |                       |       |      |      |      |      |      |  |  |
|-----------|-----------------------|-------|------|------|------|------|------|--|--|
| Parameter | Symbol                |       | Min. | Typ. | Max. | Unit | Note |  |  |
| DCLK      | Period                | Tclk  | 14.3 | 13.5 | 12.8 | ns   |      |  |  |
|           | Frequency             | -     | 71   | 74   | 77   | MHz  |      |  |  |
| Hsync     | Period                | Thp   | 1451 | 1504 | 1520 | Tclk |      |  |  |
|           | Width                 | Twh   | 6    | 10   | 12   | Tclk |      |  |  |
| X7        | Period                | Tvp   | 810  | 820  | 830  | Thp  |      |  |  |
| v sync    | Width                 | Twv   | 2    | 6    | 10   | Thp  |      |  |  |
|           | Horizontal Valid      | T hv  | 1024 | 1024 | 1024 | Tclk |      |  |  |
| Data      | Horizontal Back Porch | T hbp | 56   | 76   | 86   | Tclk |      |  |  |
| Enable    | Vertical Valid        | Tvp   | 768  | 768  | 768  | Thp  |      |  |  |
|           | Vertical Back Porch   | Tvbp  | 20   | 30   | 35   | Thp  |      |  |  |

# ○ Input signal 50Hz specification

|           | 50Hz                  |       |      |      |      |      |      |  |  |  |
|-----------|-----------------------|-------|------|------|------|------|------|--|--|--|
| Parameter | Symbol                |       |      | Тур. | Max. | Unit | Note |  |  |  |
| DCI K     | Period                | Tclk  | 14.3 | 13.5 | 12.8 | ns   |      |  |  |  |
| DCLK      | Frequency             | -     | 71   | 74   | 77   | MHz  |      |  |  |  |
| Hsync     | Period                | Thp   | 1451 | 1504 | 1520 | Tclk |      |  |  |  |
|           | Width                 | Twh   | 6    | 10   | 12   | Tclk |      |  |  |  |
| Veuno     | Period                | Tvp   | 976  | 984  | 993  | Thp  |      |  |  |  |
| vsync     | Width                 | Twv   | 2    | 6    | 10   | Thp  |      |  |  |  |
|           | Horizontal Valid      | T hv  | 1024 | 1024 | 1024 | Tclk |      |  |  |  |
| Data      | Horizontal Back Porch | T hbp | 56   | 76   | 86   | Tclk |      |  |  |  |
| Enable    | Vertical Valid        | Tvp   | 768  | 768  | 768  | Thp  |      |  |  |  |
|           | Vertical Back Porch   | Tvbp  | 20   | 30   | 35   | Thp  |      |  |  |  |

# □ I2C Timing Specification & Register Description

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| DADAMETER  | CYMPOL              | STANDA                  | RD-MODE                  | FAST-N               | IODE                    |          |
|--|---------------------|-------------------------|--------------------------|----------------------|-------------------------|----------|
| PARAMETER  | SYMBOL              | MIN.                    | MAX.                     | MIN.                 | MAX.                    |          |
| SCL clock frequency  | f <sub>SCL</sub>    | 0                       | 100                      | 0                    | 400                     | kHz      |
| Hold time (repeated) START condition.<br>After this period, the first clock pulse is<br>generated                | <sup>t</sup> hd;sta | 4.0                     | -                        | 0.6                  | -                       | μs       |
| LOW period of the SCL clock  | t <sub>LOW</sub>    | 4.7                     | -                        | 1.3                  | -                       | μs       |
| HIGH period of the SCL clock   | t <sub>HIGH</sub>   | 4.0                     | -                        | 0.6                  | -                       | μs       |
| Set-up time for a repeated START condition   | t <sub>SU;STA</sub> | 4.7                     | -                        | 0.6                  | -                       | μs       |
| Data hold time:<br>for CBUS compatible masters (see NOTE,<br>Section 10.1.3)<br>for I <sup>2</sup> C-bus devices | t <sub>HD;DAT</sub> | 5.0<br>0 <sup>(2)</sup> | -<br>3.45 <sup>(3)</sup> |                      | -<br>0.9 <sup>(3)</sup> | μs<br>μs |
| Data set-up time   | tsu;dat             | 250                     | -                        | 100 <sup>(4)</sup>   | -                       | ns       |
| Rise time of both SDA and SCL signals  | tr                  | -                       | 1000                     | $20 + 0.1 C_b^{(5)}$ | 300                     | ns       |
| Fall time of both SDA and SCL signals  | tf                  | -                       | 300                      | $20 + 0.1 C_b^{(5)}$ | 300                     | ns       |
| Set-up time for STOP condition   | tsu;sto             | 4.0                     | -                        | 0.6                  | -                       | μs       |
| Bus free time between a STOP and START condition   | t <sub>BUF</sub>    | 4.7                     | -                        | 1.3                  | -                       | μs       |
| Capacitive load for each bus line  | Cb                  | -                       | 400                      | -                    | 400                     | pF       |
| Noise margin at the LOW level for each connected device (including hysteresis)                                   | V <sub>nL</sub>     | 0.1V <sub>DD</sub>      | -                        | 0.1V <sub>DD</sub>   | -                       | V        |
| Noise margin at the HIGH level for each connected device (including hysteresis)                                  | V <sub>nH</sub>     | 0.2V <sub>DD</sub>      | -                        | 0.2V <sub>DD</sub>   | -                       | V        |

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|   | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

# $\bigcirc$ Register Description

| 12C addraga | Mada                   | Dit   |           |   |   |   |   | I2C data  |                 |    |          |
|-------------|------------------------|-------|-----------|---|---|---|---|-----------|-----------------|----|----------|
| 12C address | Mode                   | Ы     | 7         | 6 | 5 | 4 | 3 | 2         | 1               | l  | 0        |
| 08h         | BRIGHT_MODE            | 4bit  | Ν         | Ν | Ν | Ν | ] | PAL(1:0)  | L(1:0) NT (1:0) |    | T (1:0)  |
| 0Bh         | GAMMA_MODE             | 4bit  | Ν         | Ν | Ν | Ν | I | PAL (1:0) |                 | N  | T (1:0)  |
| 10h         | COLOR_INVERSION        | 1bit  | Ν         | Ν | Ν | Ν | Ν | Ν         | 1               | ł  | ON/OFF   |
| 18h         | ISM_MODE               | 1bit  | Ν         | Ν | Ν | Ν | Ν | N         | ſ               | 7  | ON/OFF   |
| 20h         | PGR                    | 3bit  | Ν         | Ν | Ν | Ν | Ν | ON/OFF    |                 | Se | el (1:0) |
| C0h         | 3D enable switch       | 1bit  | Ν         | Ν | Ν | N | Ν | Ν         | N               | V  | ON/OFF   |
| C1h         | 3D Mode select         | 2bit  | N         | N | N | N | N | N         |                 | Se | el(1:0)  |
| C2h         | L/R eye switch         | 1bit  | Ν         | Ν | Ν | N | N | N         | ١               | V  | ON/OFF   |
| C3h         | 3D to 2D Enable        | 1bit  | Ν         | Ν | Ν | N | N | N         | N               | V  | ON/OFF   |
| C4h,C5h     | Sync Output(Left)      | 16bit | Sel(15:0) |   |   |   |   |           |                 |    |          |
| C6h,C7h     | Sync Output(Right)     | 16bit | Sel(15:0) |   |   |   |   |           |                 |    |          |
| C8h         | Full Resolution Select | 1bit  | N         | N | 1 | V | N | Ν         | Ν               | Ν  | ON/OFF   |
| C9h         | Dual View Enable       | 1bit  | N         | N | 1 | V | N | N         | N               | N  | ON/OFF   |

# **O Bright MODE**

| I2C<br>address | Mode        | Bit  | I2C data |   |               |   |    |       |   |   |  |  |  |
|----------------|-------------|------|----------|---|---------------|---|----|-------|---|---|--|--|--|
|                |             |      | 7        | 6 | 5             | 4 | 3  | 2     | 1 | 0 |  |  |  |
| 08h            | BRIGHT_MODE | 4bit | Ν        | Ν | N N PAL (1:0) |   | NT | (1:0) |   |   |  |  |  |

▶ PAL(1:0) : 50Hz bright mode

▶ NT(1:0) : 60Hz bright mode

- ▶ "00" : 100% brightness mode(Default Value)
- "01": 80% brightness mode
- "10": 60% brightness mode
- ▶ "11": TBD

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|                                      | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

### $\bigcirc$ Color Inversion MODE

| I2C     | Mode            | Bit  |   |   |   | I20 | C data |   |   |        |
|---------|-----------------|------|---|---|---|-----|--------|---|---|--------|
| address |                 | Dit  | 7 | 6 | 5 | 4   | 3      | 2 | 1 | 0      |
| 10h     | COLOR_INVERSION | 1bit | N | N | N | N   | N      | N | N | ON/OFF |

Image inversion enable

- "0": Image inversion off, Default Value
- ▶ "1": Image inversion on

#### **O IRR (Image Retention Reduction) MODE**

| I2C     | Mode     | Bit  | I2C data |   |   |   |   |   |   |        |  |
|---------|----------|------|----------|---|---|---|---|---|---|--------|--|
| address | Widde    | BR   | 7        | 6 | 5 | 4 | 3 | 2 | 1 | 0      |  |
| 18h     | IRR_MODE | 1bit | N        | N | N | N | N | N | N | ON/OFF |  |

This module has been equipped with a special method that minimizes the image retention phenomenon. When in the fixed pattern display mode decreases the brightness over a period of 5 minutes with small steps. The figure below shows that the decrease in brightness is so small the user will not notice.



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|                                  | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

- "1" : Image Retention Reduction on, Default Value.
- "0": Image Retention Reduction off.

# ○ Internal Pattern Generation

| I2C     | Mode | Bit  | Bit |   |   |   |   |        |     |       |  |  |
|---------|------|------|-----|---|---|---|---|--------|-----|-------|--|--|
| address | mode | BR   | 7   | 6 | 5 | 4 | 3 | 2      | 1   | 0     |  |  |
| 20h     | PGR  | 3bit | Ν   | Ν | Ν | N | N | ON/OFF | SEL | (1:0) |  |  |

- ▶ Pattern generation is automatically.
- ON/OFF: "0" => OFF, "1" => ON Default Value "0"
- ► SEL(1:0): Pattern Select
- "01": rotation stop
- " 10" : color bar
- ▶ " 00" : 16% window
- "11": rotation pattern

## $1.F_W \rightarrow 2.F_R \rightarrow 3.F_G \rightarrow 4.F_B \rightarrow$

- 5.Horigental 256 gray\_White  $\rightarrow$
- 6.Horigental 256 gray\_Red →
- 7.Horigental 256 gray\_Green →
- 8.Horigental 256 gray\_Blue →
- 9. Vertical 256 gray\_White  $\rightarrow$
- 10. Vertical 256 gray\_Red  $\rightarrow$
- 11.Vertical 256 gray\_Green  $\rightarrow$
- 12.Vertical 256 gray\_Blue →
- 13.Diagonal 256 gray\_White  $\rightarrow$
- 14. Diagonal 256 gray\_Red  $\rightarrow$
- 15. Diagonal 256 gray\_Green  $\rightarrow$
- 16. Diagonal 256 gray\_Blue  $\rightarrow$  1.Full\_White

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|                                  | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

O 3D Enable Switch

| I2C     | Mada                | Bit  |   |   |   |   | I2C | data |   |        |
|---------|---------------------|------|---|---|---|---|-----|------|---|--------|
| address | Widde               |      | 7 | 6 | 5 | 4 | 3   | 2    | 1 | 0      |
| C0h     | 3D enable<br>switch | 1bit | N | Ν | Ν | N | Ν   | N    | N | ON/OFF |

▶ ON/OFF: "0" => OFF, "1" => ON Default Value "0"

O 3D Mode select

| I2C     | Mode           | Bit  | Bit I2C data |   |   |   |   |   |       |       |  |  |
|---------|----------------|------|--------------|---|---|---|---|---|-------|-------|--|--|
| address | address        |      | 7            | 6 | 5 | 4 | 3 | 2 | 1     | 0     |  |  |
| C1h     | 3D Mode select | 2bit | Ν            | N | N | Ν | Ν | N | SEL ( | (1:0) |  |  |

► SEL(1:0): Pattern Select

• "00" :pixel by pixel

▶ "01": side by side(C9=0x01,enable);column by column(C9=0x00,enable)

▶ " 20" :line by line

O L/R eye switch

| I2C     | Mode           | Bit  |   |   |   | I20 | C data |   |   |        |
|---------|----------------|------|---|---|---|-----|--------|---|---|--------|
| address |                |      | 7 | 6 | 5 | 4   | 3      | 2 | 1 | 0      |
| C2h     | L/R eye switch | 1bit | Ν | N | N | N   | N      | N | N | ON/OFF |

L/R eye switch enable

▶ " 0 " :Disable(default value)

▶"1": Enable

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|  | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

## O 3D to 2D switch

| I2C     | Mode            | Bit  |   |   |   |   | I2C da | ata |   |        |
|---------|-----------------|------|---|---|---|---|--------|-----|---|--------|
| address | 2               | 7    | 6 | 5 | 4 | 3 | 2      | 1   | 0 |        |
| C3h     | 3D to 2D switch | 1bit | N | Ν | Ν | N | N      | N   | Ν | ON/OFF |

3D to 2D switch enable

- ▶ " 0 " :Disable(default value)
- ▶ " 1" : Enable(0xC0=1)

## **OSync Output**

| I2C     | Mada               | Dit  |   |   |   |   | I2C data | l |   |   |
|---------|--------------------|------|---|---|---|---|----------|---|---|---|
| address | Mode               | Dit  | 7 | 6 | 5 | 4 | 3        | 2 | 1 | 0 |
| C4h,C5h | Sync Output (Left) | 8bit | N | Ν | N | Ν | N        | Ν | Ν | Ν |
| C6h,C7h | Sync Output(Right) | 8bit | N | N | N | Ν | Ν        | Ν | Ν | Ν |

Adjust the left eye sync phase by two register of 0xC4/0xC5. 0xC4 is MSB,0xC5 is LSB, default va lue is 0x0F01.

Adjust the right eye sync phase by two register of 0xC6/0xC7. 0xC6 is MSB,0xC7 is LSB, default v alue is 0x0F01.

## O Full resolution select

| I2C     | Mode Bit               |      | I2C data |   |   |   |   |   |   |        |
|---------|------------------------|------|----------|---|---|---|---|---|---|--------|
| address | Widde                  |      | 7        | 6 | 5 | 4 | 3 | 2 | 1 | 0      |
| C8h     | Full resolution select | 1bit | Ν        | N | N | N | N | N | N | ON/OFF |

Full resolution select ( no value now)

▶ " 0 " :Disable(default value)

▶"1": Enable

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|                               | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

O Dual View Control

| I2C     | Mode              | Bit  |   |   |   | I2C | C data |   |   |        |
|---------|-------------------|------|---|---|---|-----|--------|---|---|--------|
| address |                   |      | 7 | 6 | 5 | 4   | 3      | 2 | 1 | 0      |
| C9h     | Dual View Control | 1bit | Ν | N | N | N   | N      | N | N | ON/OFF |

Dual View Enable (side by side)

▶ " 0 " :Disable(default value)

▶"1": Enable

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|                                  | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

# **3. ELECTRO OPTICAL SPECIFICATIONS**

# □ Electro Optical characteristic Specifications (60Hz)

|                             | ITEM                  |    | Symbol     | Condition 1                    | Min.    | Тур.     | Max.  | Unit                    |  |
|-----------------------------|-----------------------|----|------------|--------------------------------|---------|----------|-------|-------------------------|--|
| Peak White Brightness 🕬     |                       | *  | BWP        | 1% white window<br>(Test mode) | 400     | 500      | -     | cd/m <sup>2</sup> 12 2) |  |
| Average White Brightness 🖙* |                       | ₽* | BW         |                                | 50      | 55       | -     | cd/m <sup>2</sup>       |  |
| Brightr                     | Brightness Uniformity |    | BU         | 1 1                            | -15     | 0        | +15   | %                       |  |
| Color White                 | White                 | Х  | XW         | Full White                     | 0.270   | 0.285    | 0.300 |                         |  |
| Coordinate                  |                       | Y  | YW         |                                | 0.265   | 0.295    | 0325  |                         |  |
| Color Coo                   | rdinate Uniformit     | У  | CU         | -0.01                          | 0       | +0.01    |       |                         |  |
| Contrast                    | Bright Ro             | om | CRBR       | 100Lx at center                | 140:1   | 180:1    | -     | Contrast                |  |
| Ratio*                      | Dark Room 🖙 3)        |    | CRDR       | 1% white window                | 8,000:1 | 10,000:1 | -     | Ratio*                  |  |
| Power Consumption 3 (3)     |                       | PW | Full White | -                              | 180     | 200      | W     |                         |  |
| Tsy                         | ync Margin            |    | Hz         |                                |         | +/-1.5   |       | Hz                      |  |

# □ Electro Optical characteristic Specifications (50Hz)

|  | ITEM               | Symbol | Condition 1                    | Min.    | Тур.     | Max.  | Unit                  |  |
|--|--------------------|--------|--------------------------------|---------|----------|-------|-----------------------|--|
| Peak White Brightness 🖙*                             |                    | BWP    | 1% white window<br>(Test mode) | 400     | 500      | -     | cd/m <sup>2</sup> 12) |  |
| Average White Brightness 🖅*<br>Brightness Uniformity |                    | BW     | -                              | 50      | 55       | -     | cd/m <sup>2</sup>     |  |
|  |                    | BU     |                                | -15     | 0        | +15   | %                     |  |
| Color<br>Coordinate White                            | White              | XW     | Full White                     | 0.270   | 0.285    | 0.300 |                       |  |
|  | Y                  | YW     |                                | 0.265   | 0.295    | 0.325 |                       |  |
| Color Coo  | rdinate Uniformity | CU     |                                | -0.01   | 0        | +0.01 |                       |  |
| Contrast   | Bright Room        | CRBR   | 100Lx at center                | 130:1   | 170:1    | -     | Contrast              |  |
| Ratio*   | Dark Room 🖙 3)     | CRDR   | 1% white window                | 8,000:1 | 10,000:1 | -     | Ratio*                |  |
| Power Consumption 1274)                              |                    | PW     | Full White                     | -       | 180      | 200   | W                     |  |
| Ts   | ync Margin         | Hz     |                                |         | +/-1.5   |       | Hz                    |  |

\*) Module brightness can be lowed up to 25% comparing with room temperature when panel temperature is below than 18°C.

1) All characteristics are measured in the room temperature.

2) The brightness of the white peak position is measured while the 1%-window pattern is "ON" state. And then, it should be checked in 10 seconds after 1%-window is "ON" state.

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|                                    | 规格编号 No.<br>(SPEC. No.) |                  | 制定时间<br>(EST.DATE) | 2010年04月25日 |
|------------------------------------|-------------------------|------------------|--------------------|-------------|
| 虹欧<br>Creation Of Colonarful Lives | 规格书名称                   | PM42H3000模组客户规格书 | 修订编号<br>(REV. No)  | 0. 0        |
|                                    | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

- Occasionally, the dark position could be changed to any other point arbitrary.

3) The brightness of dark room is less than 1 lux.

1374) Total Power Consumption can be up to 300W according to the displayed pattern.

# 4. MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS

 $\square$  Mechanical Characteristic Specifications

| Iter           | m     | Spec.                   | Unit | Remark                |
|----------------|-------|-------------------------|------|-----------------------|
| Outline Dimens | ions  | 1002.4(H)*600(V)*49±1   | mm   | See" Outline Drawing" |
| Display Area   |       | 933.96(H)*532.2(V)*±0.5 | mm   |                       |
| Waight         | Net   | $12.5 \pm 0.5$          | Kg   |                       |
| weight         | Gross | 220±5(12EA/1BOX)        | Kg   |                       |

#### $\hfill\square$ Vibration, shock and Drop Specifications

| Item      | Condition  | Remark            |
|-----------|--|-------------------|
| Vibration | ► X,Y direction 1.04G, Z direction, 0.73G,5~100Hz<br>(Sweep time : 30 Min) | ► Non operation   |
| Shock     | ► X,Y direction 20G, Z direction 15G, duration time 20ms                   |                   |
| Drop      | ▶ Bottom : Pivot point height 15cm, Packing edge                           | Non operation     |
|           | Falling height : 20.32 cm  | 12ea Packed state |

□ Environmental Conditions

1) Operation Condition

| Item                         | Recommended              | Absolute maximum                            |
|------------------------------|--------------------------|---|
| Ambient<br>Temperature       | 5°C~45°C                 | 0 °C~50 °C                                  |
| Humidity                     | 20~70% RH                | 20~80% RH                                   |
| Panel surface<br>temperature | Absolute maximum tempera | ature: 120 °C ( $\Delta$ T $\leq$ 20 °C/cm) |

Note: 1. this module can be operated normally at lower altitude than 2000m(625Torr)

2. In case that a module is left out at the low temperature for a long time(more than 1 hour), It has be operated after for at least 15 minutes.

2) Storage Conditions

| Item                   | Recommended | Absolute maximum |
|------------------------|-------------|------------------|
| Ambient<br>Temperature | -5 ℃~45 ℃   | -20 ℃~70 ℃       |

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|-----------------------------------|-------------------------|------------------|--------------------|-------------|
| u 欧<br>Creator Of Colourful Lives | 规格书名称                   | PM42H3000模组客户规格书 | 修订编号<br>(REV. No)  | 0. 0        |
|                                   | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

| Humidity     | 20~80% RH                     | 5~85% RH                       |
|--------------|-------------------------------|--------------------------------|
| Air Pressure | 633Torr~760Torr<br>(0~1,500m) | 229Torr~760Torr<br>(0~10,000m) |

# **5.** Image Sticking Characteristics

## □ Image Sticking

The fluorescent substance used in the plasma module loses its brightness with the lapse of lighting time. This deterioration in brightness appears to be a difference in brightness in relation to the surroundings, and comes to be recognized as image sticking. In other words, the image sticking is defined as follows: when the same pattern (of the fixed display) is displayed for a long time, a difference in brightness is caused around the lighting area and non-lighting area due to deterioration in the fluorescent substance. When the present pattern is changed over to another one, the boundary comes to be seen between the lighting area and non-lighting area due to difference in brightness in the pattern shown shortly before changeover. If this condition is accumulated, the boundary or image sticking comes to be seen with the naked eyes.

#### □ Warranty

Image sticking and faults in brightness and picture elements are excluded from the warranty objects.

#### Proposed measures taken to relieve image sticking

So long as there is the reduction of brightness in the fluorescent substance, it is impossible to avoid the occurrence of image sticking. Therefore, to relieve image sticking, we offer you a method of entering an image input that may ensure reluctance to the generation of the difference in brightness reduction among the displayed dots.

The images from TV broadcasting involve a high rate of motion picture displays. Therefore, there is less chance of being a cause of difference in brightness reduction among the cells. Even when the fixed patterns are displayed, they generally last for a few minutes. Since the same pattern is less liable to be displayed, there is almost no influence toward image sticking. If the fixed patterns tend to be displayed for a long time, however, there occurs a substantial imbalance between the lighting and non-lighting areas, thus causing a difference in brightness as a result.

In this document, we offer you some proposals of installation, paying attentions to the two points: the reduction of difference in brightness achieved by integrated lighting time leveling and the method of edge smearing to make image sticking hard to be discerned. The result from these proposals can, however, greatly depend on the contents of images and the operating environment. Therefore, we consider that it is essential to take the suitable measures in consideration of the customer' s operating environment.

Example of Proposal 1: The display position is moved while the fixed display pattern is changed over, or it is scrolled during the display.

Example of Proposal 2: If possible, a pattern of complementary color is incorporated (for integrated time leveling).

Example of Proposal 3: The fixed pattern and the motion picture display are reciprocally exchanged, in order to minimize display period of the fixed pattern.

Example of Proposal 4: During operation, the brightness of screen is suppressed as low as possible.

For the display patterns, characters are indicated not on the black ground (non-picture area) but on the colored ground (mixture of R, G, B recommended).

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PM42H3000模组客户规格书

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|                                  | 规格编号 No.<br>(SPEC. No.) |
|----------------------------------|-------------------------|
| 中国 EXCreative Of Colourful Lines | 规格书名称<br>SPEC NAME      |

| 制定时间<br>(EST.DATE) | 2010年04月25日 |
|--------------------|-------------|
| 修订编号<br>(REV. No)  | 0. 0        |
| 总页数<br>(TOTAL      | 42          |

# 6. OUTLINE DRAWING

 $\Box$  Front View

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|  | 规格编号 N<br>(SPEC. No                                 | No.<br>o.)  |                     |   | 制定时间<br>(EST.DATE)  | 2010年04月25日   |  |
|--|---|---|---------------------|---|---|---|--|
| Streator Of Colourful Lite   | 规格书名  | 称  PM42H  | 3000模组              | 组客户规格-  | 修订编号<br>(REV. No)   | 0. 0  |  |
|  | SPEC NA   | ME  |                     |   | 总页数<br>(TOTAL   | 42  |  |
|  |   |   |                     |   |   |   |  |
| CN803<br>CN803<br>CN803<br>Size : 245 x 245<br>Height : 26mm<br>CN801<br>CN801<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN802<br>CN803<br>CN802<br>CN803<br>CN803<br>CN804<br>CN804<br>CN804<br>CN804<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN805<br>CN80 |   |   |                     |   |   |   |  |
| CN01   |   | Siz <del>e</del><br>Heig  | : 245 x<br>ht : 26n | 245<br>nm<br>CN801  |   | <b>N802</b>   |  |
| CN01   | CN01  | Siz <del>e</del><br>Heig<br>CN801   | : 245 x<br>ht : 26n | 245<br>nm<br>CN801  |   | N802  |  |
| CN01<br>Location<br>Usage<br>Maker   | CN01<br>From AC                                     | Size<br>Heig<br>CNS01<br>ToLogic  | : 245 x<br>ht : 26n | 245<br>nm<br>CN801<br>CN801   |   | 1<br>CN803<br>To X'Y Board<br>VEON HO   |  |
| CN01<br>Location<br>Usage<br>Maker<br>Part No.   | CN01<br>From AC<br>YEON HO<br>YW396-03V             | Size<br>Heig<br>CN801<br>ToLogic<br>HUATE<br>TJC3-10A<br>(Equivalent)               | : 245 x<br>ht : 26n | 245<br>nm<br>CN801<br>CN801<br>CN802<br>PSU~ AV Inte<br>YEON HC                           | CI<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | V802<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2<br>1<br>2 |  |
| CN01<br>Location<br>Usage<br>Maker<br>Part No.<br>Pin No.  | CN01<br>From AC<br>YEON HO<br>YW396-03V<br>Pin Name | Size<br>Heig<br>CNS01<br>To Logic<br>HUATE<br>TJC 3-10A<br>(Equivalent)<br>Pin Name | : 245 x<br>ht : 26n | 245<br>nm<br>CN801<br>[<br>CN802<br>PSU~ AV Inte<br>YEON HC<br>SMW200-24CC (E<br>PIn Name | Cl<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 1802<br>CN803<br>To X'Y Board<br>YEON HO<br>YW396-06V<br>Pin Name                                   |  |

| Usage    | FromAC    | IOLOGIC                  |    | PSU~ AV Imenace          |      |      | LO A'T Board |
|----------|-----------|--------------------------|----|--------------------------|------|------|--------------|
| Maker    | YEON HO   | HUATE                    |    | YEON HO                  |      |      | YEON HO      |
| Part No. | YW396-03V | TJC3-10A<br>(Equivalent) |    | 8MW200-24CC (Equivalent) |      |      | YW396-06V    |
| Pin Nø.  | Pin Name  | PinName                  |    | Pin                      | Name |      | Pin Name     |
| 1        | Live      | 05V                      | 1  | PS_ON                    | 2    | NC   | VS           |
| 2        | NC        | D5∨                      | 3  | 5∨TB                     | 4    | GND  | VS           |
| 3        | Neutral   | GND                      | 5  | GND                      | 6    | GND  | GND          |
| 4        |           | GND                      | 7  | D15V                     | 8    | D15V | VA           |
| 5        |           | D5V                      | 9  | GND                      | 10   | GND  | GND          |
| 6        |           | GND                      | 11 | GND                      | 12   | GND  | D15V         |
| 7        |           | RLY_SYG                  | 13 | D5∨                      | 14   | D5V  |              |
| 8        |           | ACD                      | 15 | D5∨                      | 16   | D5v  |              |
| 9        |           | VS_ON                    | 17 | GND                      | 18   | GND  |              |
| 10       |           | NC                       | 19 | D15V                     | 20   | GND  |              |
| 11       |           |                          | 21 | D15∨                     | 22   | D15V |              |
| 12       |           |                          | 23 | NC                       | 24   | NC   |              |

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|                               | 规格编号 No.<br>(SPEC. No.) |                  | 制定时间<br>(EST.DATE) | 2010年04月25日 |
|-------------------------------|-------------------------|------------------|--------------------|-------------|
| 中国 Creator Of Colourful Lives | 规格书名称                   | PM42H3000模组客户规格书 | 修订编号<br>(REV. No)  | 0. 0        |
|                               | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |
|                               |                         |                  |                    |             |

Note: ACD output circuit:



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|   | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

# 8. LABEL

□ LABEL Sticking Position: Product Label



- □ LABEL
  - 1) LABEL-1; Identification Label



- 1 Model Name
- 2 Bar Code (Code 128, Contains the manufacture No.)
- ③ Serial Number

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# APPENDIX

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|                                   | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |

# □ Cell Defect Specifications

| Defect                           | Specification   |  |
|----------------------------------|---|--|
|                                  | Number of Cell Defects (N)                                      | Distance between two defects (D)                         |
| Non-lighting Call - 1            | A-zone 3 and less   |  |
| Non-fighting Cell [8-1]          | B-zone • 6 and less   |  |
| Non-extinguishing                | A-zone $\blacktriangleright$ 0                                  |  |
| Cell (2)                         | B-zone <b>b</b> 0   |  |
| Flickering Cell 3)               | A-zone $\blacktriangleright$ 0                                  |  |
| (the W/R/G/B screen)             | B-zone <b>•</b> 0   | ▶ Regardless of A and B Zone,                            |
| Flickering Cell <sup>373</sup> ) | A-zone $\blacktriangleright$ 0                                  | the distance between two defect-cells is more than 50mm. |
| (the other screen)               | B-zone $\blacktriangleright$ 0                                  | (In case of continuous cell, more than 50mm)             |
| High Intensity Cell              | A-zone  1   |  |
| ter 4)                           | B-zone > 2 and less   |  |
| 2 or 3 Continuous                | A-zone  1 and less  |  |
| Cell (375)                       | B-zone > 2 and less   |  |
| ► Tota                           | sum of all defects $N \le 12$ and less                          |  |
|                                  | • N $\leq$ 3, for the stain of which longer-axis                |  |
| Stain - 0                        | length is 5 mm or shorter.                                      |  |
| Stalll 1876)                     | $\blacktriangleright$ N = 0, for the stain of which longer-axis |  |
|                                  | length is longer than 5 mm.                                     |  |

1) Non-Lighting Cell is defined as " A cell which is always off" .

3) Flickering Cell is defined as " A cell which is always on".
3) Flickering Cell is defined as " A cell which is flickering".

(F) High Intensity Cell is defined as " A cell which is brighter than a correct cell".

125) The vertical continuous defect cell is not allowed.

(76) Stain is defined as " A blob due to local color contamination in white or simple color pattern".

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N : Number

mm

#### □ Sound Pressure Level Specification

 $D \leq$ 

 $0.75, N \leq 6$ 

#### 1) Level Ground (Land)

Dent

- Measuring Condition : 0m
- Sound Pressure Level is overall level calculated from the individual band levels of 250Hz ~ 8KHz.
- Spec : 21 dB Max

#### 2) High Ground

- Measuring Condition : 1600 m
- Sound Pressure Level is overall level calculated from the individual band levels of 1.6KHz ~ 20KHz.
- Spec : 30dB Max

#### [Note]

1) Audible noise is guaranteed till the altitude of 1,600 meter.

2) In order to guarantee audible noise at higher altitude 1,600 meter, a special module has to be used.

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|  |   |  |  |                             | 1             |  |  |
|--|---|--|--|-----------------------------|---------------|--|--|
|  | 规格编号 No.<br>(SPEC. No.)   |  | (E   | 制定时间<br>ST.DATE)            | 2010年04月      |  |  |
| <b>虹欧</b>  | 规格书名称   | PM42H3000榵绀客户  | 「切格书」  | 修订编号<br>REV. No)            | 0.0           |  |  |
|  | SPEC NAME   | 1 Milenooo Kaily   |  | 总页数<br>(TOTAL               | 42            |  |  |
| <ul> <li>Film Fil</li> <li>Film Fil</li> <li>Film Fil</li> <li>AR Layer</li> <li>Color PS</li> <li>Mesh L</li> <li>PSA</li> <li>Chara</li> <li>(1) I</li> <li>(2) A</li> <li>Film Film Film</li> </ul> | ilter Specification<br>Iter Structure<br>r<br>A<br>ayer<br>Acteristics of the PDP I<br>Film filter that is cons<br>Attached with a Near | s<br>Film<br>FF<br>sisted with AR Layer and Mesh Lay<br>Infrared (NIR) cut off function in t | Filter transmissivity<br>er is attached on Vie<br>he Color PSA to shie | 44%<br>w inside<br>eld them |               |  |  |
| Items  |   | Specification  |  |                             |               |  |  |
| Point<br>Defects   |   |  |  |                             | Allow Defects |  |  |
|  | Р   | Point Defects Size (mm)  |  | Area                        | a B           |  |  |
|  |   | φ<0.5<br>0.5≤φ<1.0   |  | unlimited                   |               |  |  |
|  | 1.  | 1.0≤φ≤1.5  |  |                             |               |  |  |
|  |   | 1.5< ø   |  | none                        |               |  |  |
|  | Li  | Linear Defects Size (mm)   |  | Allow Defects               |               |  |  |
|  | Width   | Length   | Area A   | Area                        | a B           |  |  |
|  | 0.1~W~(   | 15 10-1<20   | 0  | 5                           |               |  |  |

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\* Distance between defect  $\geq$  30mm

 $0.05 \le W \le 0.1$ 

 $0.05 \le W \le 0.1$ 

W < 0.05

W<0.05

Linear

Defects

5

20

35

3

10

10<L≤20

L<10

10<L≤20

L<10

 $\oslash$ 

| Creature Of Colour ful Lines | 规格编号 No.<br>(SPEC. No.) |                  | 制定时间<br>(EST.DATE) | 2010年04月25日 |
|------------------------------|-------------------------|------------------|--------------------|-------------|
|                              | 规格书名称                   | PM42H3000模组客户规格书 | 修订编号<br>(REV. No)  | 0. 0        |
|                              | SPEC NAME               |                  | 总页数<br>(TOTAL      | 42          |



[Note]

1. When power off the defect is the appearance NG.

2. When power Colored defects treated Cell defect specification Management.

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