OPRIME VIEW

PA040XS3

PA040XS3

Version :1.1

TECHNICAL SPECIFICATION

MODEL NO : PA040XS3

Customer's Confirmation

Customer

Date

By

PVI's Confirmation

| Dep | FAE | Panel Deşign | Electronic Design | Mechanical Design | Product Verification | Prepared by |
|------|-----|-----------------|----------------------|----------------------|-------------------------|----------------|
| SIGN | 劉豐發 | A BE Ward | 金聖神 | 事業は | 德东门 | 是昌霖 |

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TECHNICAL SPECIFICATION

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1. Application

This technical specification applies to 4" color TFT-LCD module, PA040XS3. The applications of the panel are car TV, portable DVD, GPS, door phone, multimedia applications and others AV system.

- 2. Features
 - . Amorphous silicon TFT-LCD panel with LED B/L unit.
 - . Compatible with NTSC & PAL system
 - . Pixel in stripe configuration
 - . Slim and compact
 - . Image Reversion : Up/Down and Left/Right (With PVI timing controller : PVI-1004D)

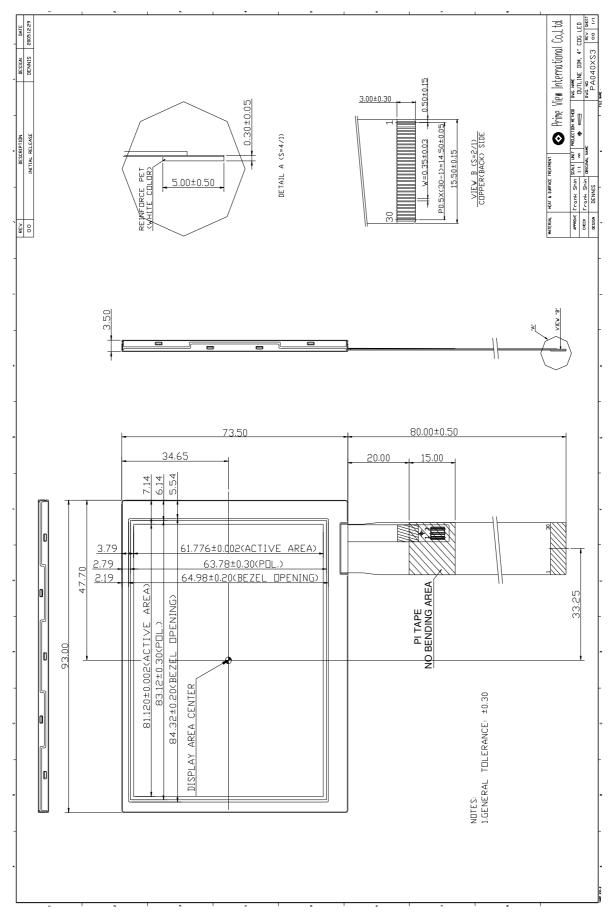
3. Mechanical Specifications

| Parameter | Specifications | Unit |
|---------------------|---------------------------------|------|
| Screen Size | 4 (diagonal) | inch |
| Display Format | 320×R,G,B×234 | dot |
| Active Area | 81.120(H) × 61.776(V) | mm |
| Dot Pitch | $0.0845(H) \times 0.2640(V)$ | mm |
| Pixel Configuration | Stripe | |
| Outline Dimension | 93.00(W)×73.50(H)×3.50(D)(typ.) | mm |
| Surface Treatment | Anti – Glare | |
| Back Light | LED | |
| Weight | 74±5 | g |

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PA040XS3

4. Mechanical Drawing of TFT-LCD Module



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5. Input / Output Terminals

FPC Down Connect, 30pins, Pitch: 0.5mm

| Pin No | Symbol | I/O | Description | Remark |
|--------|------------------|-----|--|----------|
| 1 | STH1 | I/O | Start pulse for source driver | Note 5-1 |
| 2 | AV _{ss} | Ι | Analog GND for source driver | |
| 3 | AV _{DD} | Ι | Analog power input for source driver | Note 5-3 |
| 4 | V _B | Ι | Video Input B | |
| 5 | V _G | Ι | Video Input G | Note 5-6 |
| 6 | V _R | Ι | Video Input R | |
| 7 | V _{ss} | Ι | Digital GND | |
| 8 | V _{DD} | Ι | Digital power input | Note 5-4 |
| 9 | CPH1 | Ι | Sampling and shift clock for source driver | |
| 10 | CPH2 | Ι | Sampling and shift clock for source driver | |
| 11 | CPH3 | Ι | Sampling and shift clock for source driver | |
| 12 | STH2 | I/O | Start pulse for source driver | Note 5-1 |
| 13 | N/C | - | Not connecter | |
| 14 | OE | Ι | Output enable for source driver | |
| 15 | R/L | Ι | Left/Right Control for source driver | Note 5-1 |
| 16 | V _{COM} | Ι | Common electrode voltage | No. 5 (|
| 17 | V _{COM} | Ι | Common electrode voltage | Note 5-6 |
| 18 | XOE | Ι | Output enable for gate driver | |
| 19 | CPV | Ι | Clock input for gate driver | |
| 20 | U/D | Ι | Up/Down Control for gate driver | |
| 21 | STVU | I/O | Vertical start pulse | Note 5-2 |
| 22 | STVD | I/O | Vertical start pulse | |
| 23 | V _{GL} | Ι | Gate off voltage (alternative every 1-H) | Note 5-6 |
| 24 | N/C | - | Not connecter | |
| 25 | V _{ss} | Ι | GND | |
| 26 | V _{CC} | Ι | Logic power for gate driver | Note 5-4 |
| 27 | V _{GH} | Ι | Gate on voltage | Note 5-5 |
| 28 | GLED1 | - | Ground for LED backlight | |
| 29 | GLED2 | - | Ground for LED backlight | |
| 30 | VLED | - | Supply voltage for LED B/L | Note 5-7 |

Note 5-1 : STH1, STH2 and R/L mode

| R/L | STH1 | STH2 | Remark |
|-------------------------|--------|--------|---------------|
| High (V _{DD}) | Input | Output | Left to Right |
| Low (0 Volt.) | Output | Input | Right to Left |

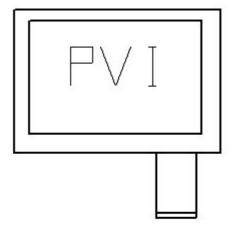
Note 5-2 : STVU, STVD and U/D mode

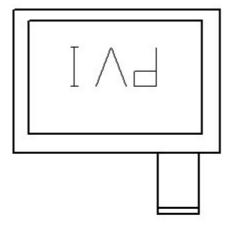
| U/D | STVD | STVU | Remark |
|-------------------------|--------|--------|------------|
| High (V _{CC}) | Input | Output | Down to Up |
| Low (0 Volt.) | Output | Input | Up to Down |

The definitions of Note 5-1,5-2

U/D(PIN20)=Low R/L(PIN15)=High

U/D(PIN20)=High R/L(PIN15)=Low





Note 5-3 : $AV_{DD} = +5V$ (Typ.)

Note 5-4 : V_{DD} , V_{CC} = +3.3V (Typ.)

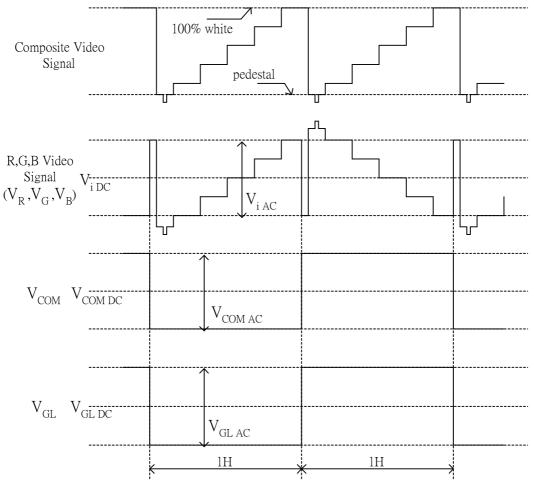
Note 5-5 : $V_{GH} = +17V$ (Typ.)

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Note 5-6 : $V_{COM} = 6V_{PP}$

Phase of the video signal input and V_{COM}

The relation between these values could refer to 8-1 Operating condition.



Liquid crystal transmission of the video signal input and $V_{\mbox{\scriptsize COM}}$

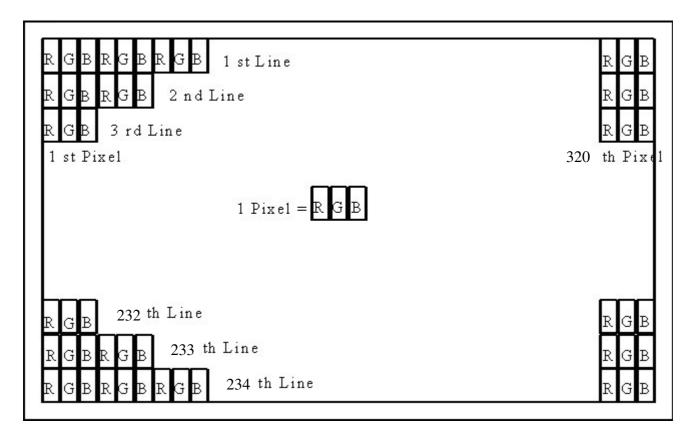
| | V _{COM} | | | | |
|----------------------------|------------------|---------|--|--|--|
| | H Level | L Level | | | |
| Video Signal Input Maximum | Black | White | | | |
| Video Signal Input Minimum | White | Black | | | |

White : maximum transmission / Black : minimum transmission

Note 5-7 : $I_{\text{LED}} = 20 \text{mA}$ (Typ.)



6. Pixel Arrangement



7. Absolute Maximum Ratings :

The followings are maximum values, which if exceeded, may cause faulty operation or damage to the unit.

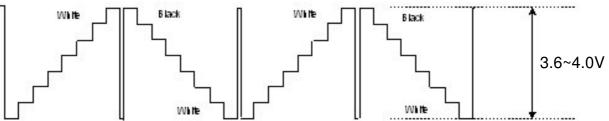
| | | | | GND = 0 |)V, 7 | Га = 25°С |
|---------------------------------|-----------------------|---------------------|-----------------------|---------|--------|-----------|
| Parameter | Symbol | MIN. | MAX. | Unit | Remark | |
| Supply Voltage For Source Drive | AV _{DD} | -0.3 | +5.8 | V | | |
| Supply voltage for Source Drive | V _{DD} | -0.3 | +7.0 | V | | |
| | | V _{CC} | -0.3 | +7.0 | V | |
| Supply Voltage For Gate Driver | | V_{GH} - V_{GL} | -0.3 | +45.0 | V | |
| Supply Voltage For Gate Driver | H Level | V _{GH} | -0.3 | +32.0 | V | |
| | L Level | V_{GL} | -22 | +0.3 | V | |
| Analog Signal Input Level | V_{R}, V_{G}, V_{B} | -0.2 | AV _{DD} +0.2 | V | | |

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8. Electrical Characteristics

| Parameter | | Symbol | MIN. | Тур. | MAX. | Unit | Remark |
|---|---------|---------------------|----------------------|------|---------|------------------|---|
| Supply Voltage For Source Driver | Analog | AV_{DD} | +4.5 | +5.0 | +5.5 | V | |
| Suppry Voltage 1 of Source Driver | Logic | V _{DD} | +3.0 | +3.3 | +3.6 | V | |
| | H level | V_{GH} | +15 | +17 | +19 | V | |
| Supply Voltage For Cate Driver | Llaval | V_{GLDC} | -13 | -12 | -10.5 | V | DC Component of V_{GL} |
| Supply Voltage For Gate Driver | L level | V _{GL AC} | - | +6.0 | - | V_{P-P} | AC Component of V_{GL} |
| | Logic | V _{CC} | +3.0 | +3.3 | +3.6 | V | |
| Analog Signal Input Level | | Vi AC | - | +3.6 | +4.0 | V_{P-P} | Note 8-1 |
| $(\mathrm{V}_{\mathrm{R}},\mathrm{V}_{\mathrm{G}},\mathrm{V}_{\mathrm{B}})$ | | Vi DC | - | +2.5 | - | V | |
| Digital input voltage | H level | V_{IH} | 0.7 VDD | - | VDD | V | |
| Digital input voltage | L level | V _{IL} | 0 | - | 0.3 VDD | V | |
| Digital output voltage | H level | V _{OH} | V _{DD} -0.4 | - | VDD | V | |
| L1 | | V _{OL} | 0 | - | 0.4 | V | |
| X7 | | V _{COM AC} | - | +6.0 | - | V _{P-P} | AC Component of V_{COM} |
| V _{COM} | | V _{COM DC} | | 1.5 | | V | DC Component of V _{COM} Note 8-2 |

Note 8-1 : Both NTSC and PAL system Video Signal input waveform is based on 8 steps gray scale.



Black

Note 8-2 : PVI strongly suggests that the $V_{COM DC}$ level shall be adjustable , and the adjustable level range is $1.5V\pm1V$, every module's $V_{COM DC}$ level shall be carefully adjusted to show a best image performance.

| | - | | | | | | $Ta = 25^{\circ}C$ |
|--------------------|----------------------------|------------------------|------|-------|-------|------|-------------------------|
| Parameter | Symbol | Condition | Min. | Тур. | Max. | Unit | Remark |
| | \mathbf{I}_{GH} | V_{GH} =+17V | - | 0.055 | 0.083 | mA | |
| | I_{GL} | V_{GL} =-12V | - | 0.067 | 0.087 | mA | V_{GL} center voltage |
| Current for Driver | I _{CC} | V _{CC} =+3.3V | - | 0.441 | 0.563 | mA | |
| | AI _{DD} | $AV_{DD}=+5V$ | - | 7 | 10 | mA | |
| | I _{DD} | V _{DD} =+3.3V | - | 1.2 | 3 | mA | |

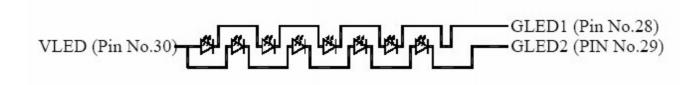
8-3) Backlight driving & Power Consumption

| Pin No | Symbol | Description | Remark |
|--------|--------|--------------------------|----------|
| 28 | GLED1 | Ground for LED backlight | |
| 29 | GLED2 | Ground for LED backlight | |
| 30 | VLED | Supply voltage for LED | Note 8-3 |

Note 8-3 : Supply voltage for LED would depend on supply current.

| | | | | GND = | = 0 V | Ta = 25 C |
|-----------------------------|--------|------|------|-------|-------|----------------------|
| Parameter | Symbol | Min. | Тур. | Max. | Unit | Remark |
| LED voltage | VLED | - | 12.8 | 14.0 | V | I _L =20mA |
| | ILED1 | | 20 | | | |
| LED current - ILED2 - | 20 | - | mA | | | |
| Backlight Power Consumption | Pled | - | 512 | 560 | mW | Note 8-4 |

Note 8-4 : PLED = VLED* ILED1 + VLED* ILED2



8-4) Power Consumption

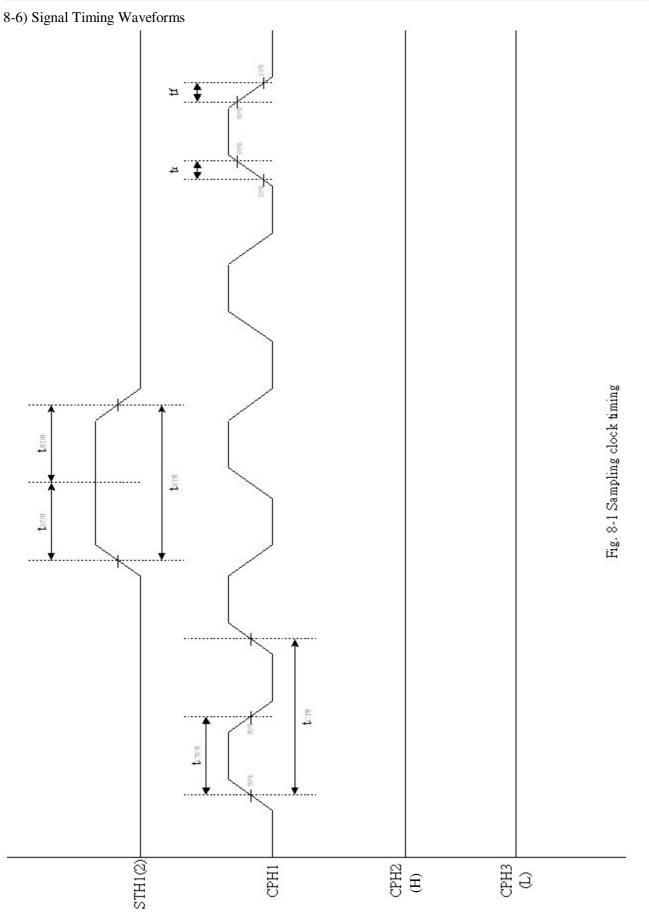
 $Ta = 25^{\circ}C$

| Parameter | Symbol | Conditions | TYP. | MAX | Unit | Remark |
|-----------------------------|--------|------------|-------|-------|------|--------|
| LCD Panel Power Consumption | | | 48.7 | 72.4 | mW | |
| Backlight Power Consumption | Pled | | 512 | 560 | mW | |
| Total Power Consumption | | | 560.7 | 632.4 | mW | |

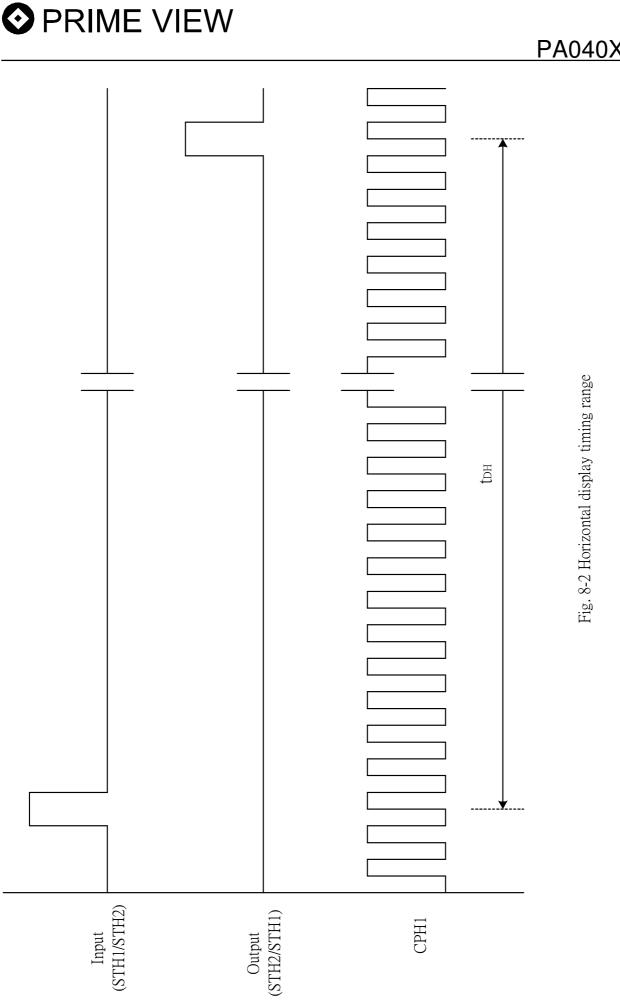
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| 8-5) Timing Characteristics of Input Signals | | | | | | | |
|--|-------------------|------|------|------|------------------|-----------|--|
| Characteristics | Symbol | Min. | Тур. | Max. | Unit | Remark | |
| Rising time | t _r | - | - | 10 | ns | | |
| Falling time | t _f | - | - | 10 | ns | | |
| High and low level pulse width | t _{CPH} | 147 | 156 | 166 | ns | CPH1 | |
| CPH pulse duty | t _{CWH} | 30 | 50 | 70 | % | CPH1 | |
| STH setup time | t _{SUH} | 20 | - | - | ns | STH1,STH2 | |
| STH hold time | t _{HDH} | 20 | - | - | ns | STH1,STH2 | |
| STH pulse width | t _{STH} | - | 1 | - | t _{CPH} | STH1,STH2 | |
| STH period | t _H | 61.5 | 63.5 | 65.5 | μ s | STH1,STH2 | |
| OE pulse width | t _{OE} | - | 1.6 | - | μ s | OE | |
| Sample and hold disable time | t _{DIS1} | - | 4.4 | - | μ s | | |
| XOE pulse width | t _{XOE} | - | 12 | - | μ s | XOE | |
| CKV pulse width | t _{CKV} | - | 32 | - | μ s | CPV | |
| Clean enable time | t _{DIS2} | - | 6 | - | μ s | | |
| Horizontal display timing range | t _{DH} | - | 320 | - | t _{CPH} | | |
| STV setup time | t _{SUV} | 400 | - | - | ns | STVU,STVD | |
| STV hold time | t _{HDV} | 400 | - | - | ns | STVU,STVD | |
| STV pulse width | t _{STV} | - | - | 1 | t _H | | |
| Horizontal lines per field | t _V | 256 | 262 | 268 | t _H | | |
| Vertical display start | t _{SV} | | 3 | - | t _H | | |
| Vertical display timing range | t _{DV} | | 234 | - | t _H | | |
| VCOM rising time | t _{rCOM} | | - | 5 | μ s | | |
| VCOM falling time | t _{fCOM} | | - | 5 | μ s | | |
| VCOM delay time | t _{DCOM} | | - | 3 | μ s | | |
| RGB delay time | t _{DRGB} | | - | 1 | μ s | | |



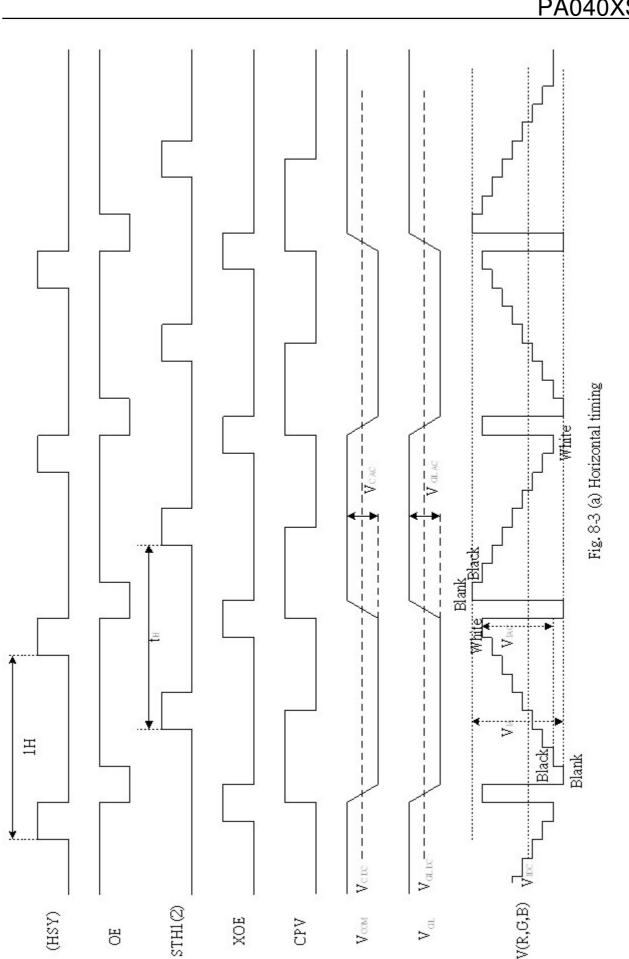


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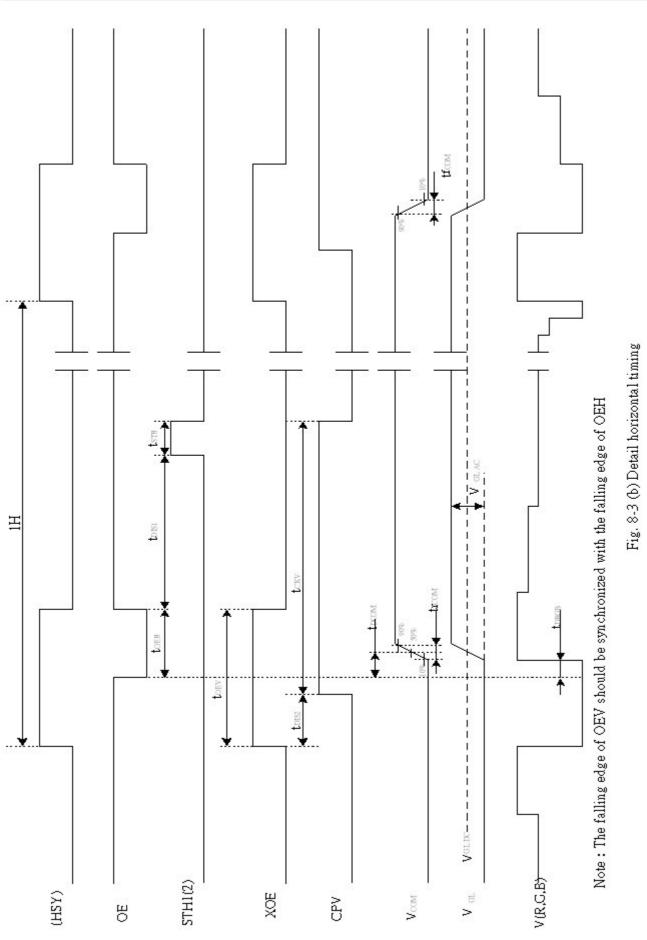


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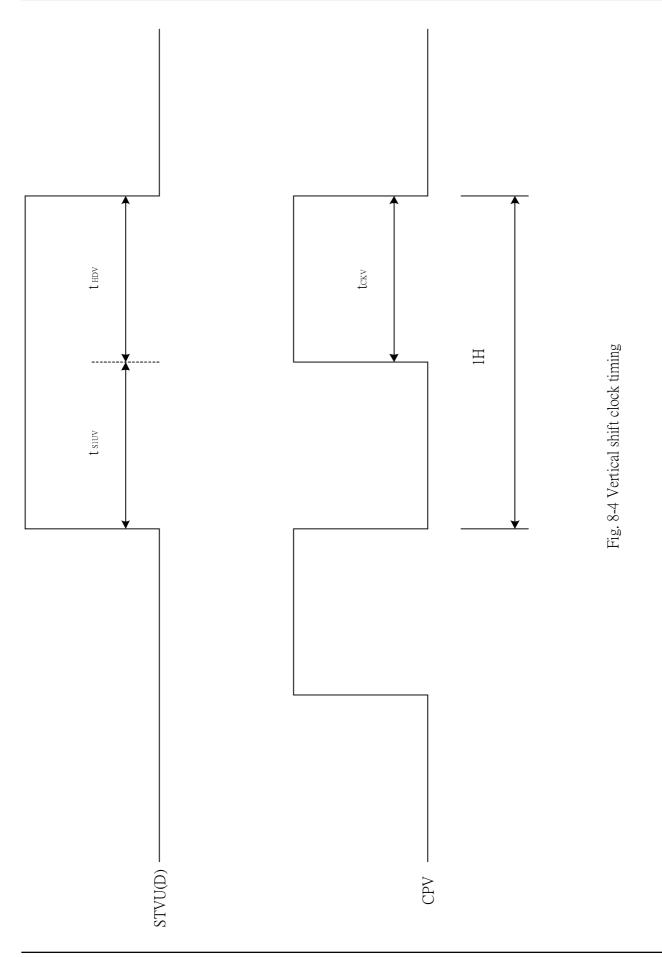


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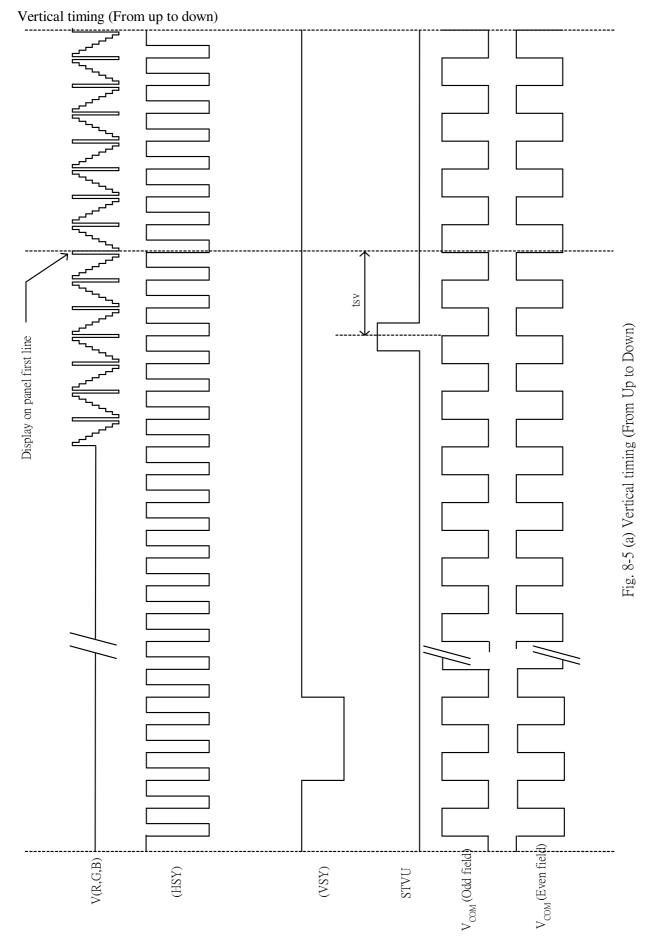
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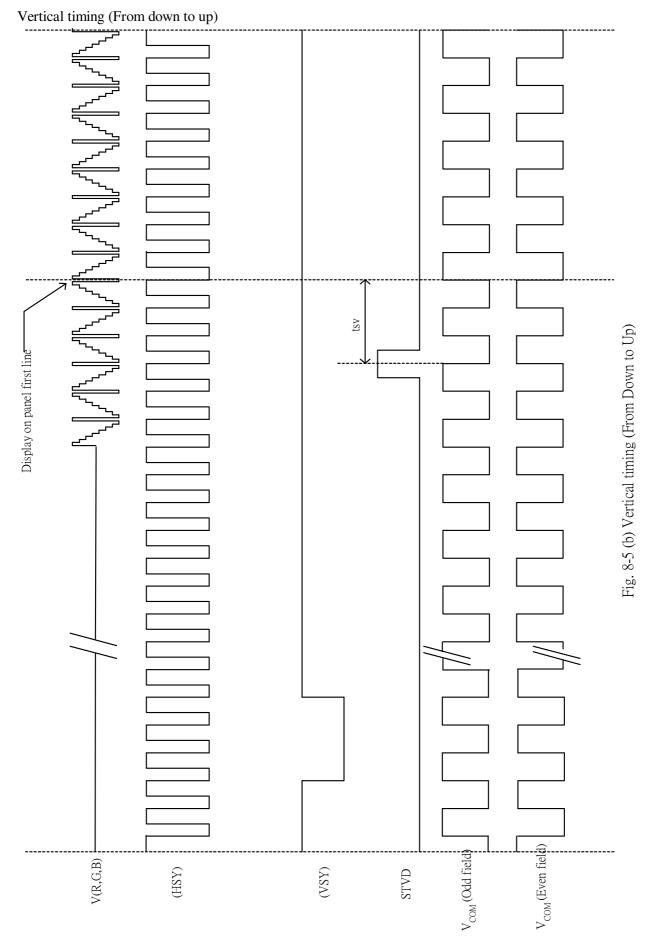


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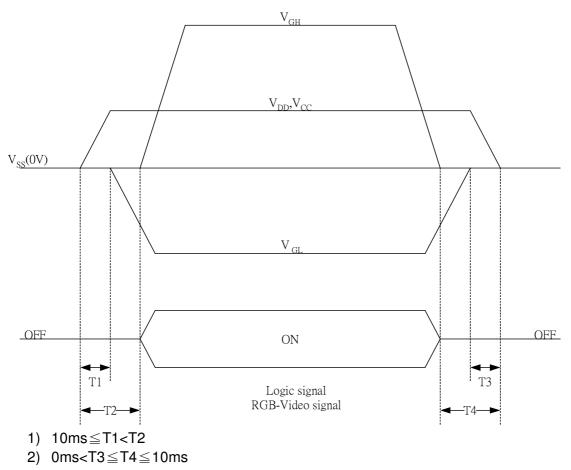


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a -°C

9. Power On Sequence

The Power on Sequence only effect by V_{CC} , V_{SS} , V_{DD} , V_{GL} and V_{GH} , the others do not care.

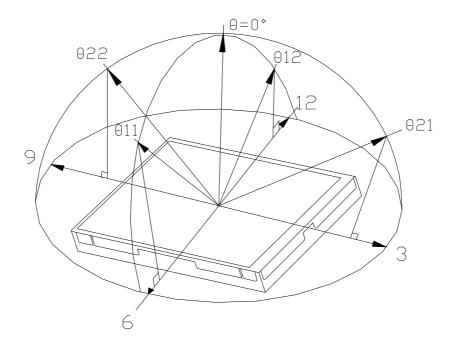


10. Optical Characteristics

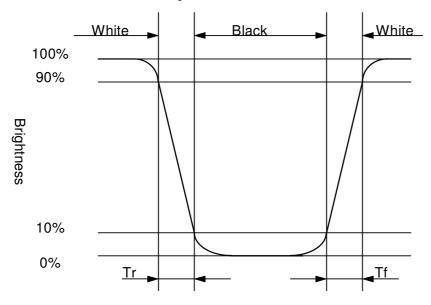
10-1) Specification:

| | | | | | | | r | Ta = 25 C |
|--------------------|------------|--------------------------|----------------------------|------|-------|------|-------------------|-----------|
| Parame | ter | Symbol | Condition | MIN. | TYP. | MAX. | Unit | Remarks |
| | Horizontal | $\theta 21, \ \theta 22$ | | ±45 | ±50 | | deg | |
| Viewing Angle | Vertical | θ 11 | $CR \ge 10$ | 30 | 35 | | deg | Note 10-1 |
| | vertical | θ 12 | | 10 | 15 | | deg | |
| Contrast Ratio | | CR | At optimized viewing angle | 200 | 350 | | | Note 10-2 |
| Desponse time | Rise | Tr | $\theta = 0^{\circ}$ | | 15 | 30 | ms | Note 10-4 |
| Response time | Fall | Tf | 0=0 | | 25 | 50 | ms | Note 10-4 |
| Uniformity | | U | | 75 | 80 | | % | Note 10-5 |
| Brightness | | | | 300 | 350 | | cd/m ² | |
| White Characticity | | х | $\theta = 0^{\circ}$ | 0.28 | 0.31 | 0.34 | | Note 10-3 |
| White Chromatici | ity | У | 0=0 | 0.30 | 0.33 | 0.36 | | |
| LED Life Time | | | 25°C | | 10000 | | hr | Note 10-3 |

Note 10-1 : The definitions of viewing angles

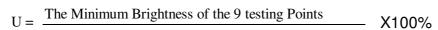


- Note 10-2 : CR = Luminance when Testing point is White Luminance when Testing point is Black (Testing configuration see 10-2) Contrast Ratio is measured in optimum common electrode voltage.
- Note 10-3 : Topcon BM-7 (fast) luminance meter 1° field of view is used in the testing (after 5 minutes operation). LED Current : 20mA Conditions : The brightness of center point becomes 50% of initial brightness.
- Note 10-4 : The definition of response time :



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Note 10-5 : The uniformity of LCD is defined as



The Maximum Brightness of the 9 testing Points

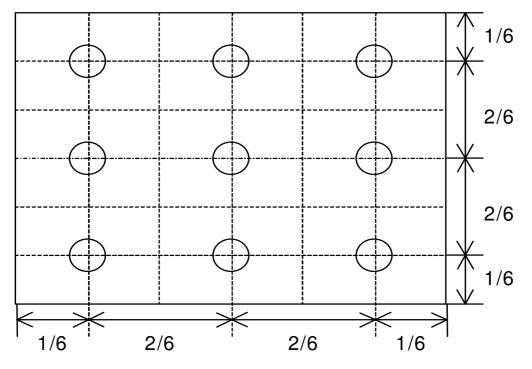
Luminance meter : BM-5A or BM-7 fast (TOPCON)

Measurement distance : 500 \pm 50 mm

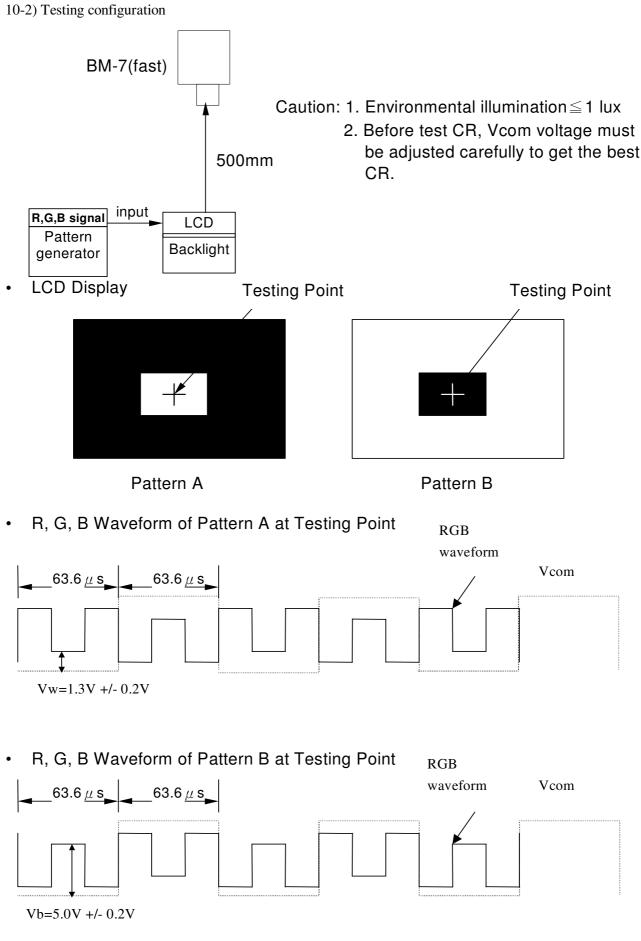
Ambient illumination : < 1 Lux

Measuring direction : Perpendicular to the surface of module

The test pattern is white (Gray Level 63).



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- 11-1) Mounting of module
 - 1. Please power off the module when you connect the input/output connector.
 - b) Please connect the ground pattern of the inverter circuit surely. If the connection is not perfect, some following problems may happen possibly.

PA040

- 1. The noise from the backlight unit will increase.
- 1. The output from inverter circuit will be unstable.
- 1. In some cases a part of module will heat.
- c) Polarizer which is made of soft material and susceptible to flaw must be handled carefully.
- d) Protective film (Laminator) is applied on surface to protect it against scratches and dirt. It is recommended to peel off the laminator before use and taking care of static electricity.
- 11-2) Precautions in mounting
 - 1. Wipe off water drops or finger grease immediately. Long contact with water may cause discoloration or spots.
 - b) TFT-LCD module uses glass which breaks or cracks easily if dropped or bumped on hard surface. Please handle with care.
 - c) Since CMOS LSI is used in the module. So take care of static electricity and earth yourself when handling.
- 11-3) Others
 - 1. Do not expose the module to direct sunlight or intensive ultraviolet rays for many hours.
 - b) Store the module at a room temperature place.
 - c) The voltage of beginning electric discharge may over the normal voltage because of leakage current from approach conductor by to draw lump read lead line around.
 - d) If LCD panel breaks, it is possibly that the liquid crystal escapes from the panel. Avoid putting it into eyes or mouth. When liquid crystal sticks on hands, clothes or feet. Wash it out immediately with soap.
 - e) Observe all other precautionary requirements in handling general electronic components.

12. Reliability Test

| No | Test Item | Test Condition |
|----|--|--|
| 1 | High Temperature Storage Test | $Ta = +80^{\circ}C$, 240 hrs |
| 2 | Low Temperature Storage Test | $Ta = -30^{\circ}C$, 240 hrs |
| 3 | High Temperature Operation Test | $Ta = +70^{\circ}C$, 240 hrs |
| 4 | Low Temperature Operation Test | $Ta = -20^{\circ}C$, 240 hrs |
| 5 | High Temperature & High Humidity Operation Test | $Ta = +60^{\circ}C$, 90%RH, 240 hrs |
| 6 | Thermal Cycling Test (non-operating) | $-20^{\circ}C \rightarrow +70^{\circ}C$, 200 Cycles 30 min 30 min |
| 7 | Vibration Test (non-operating) | Frequency : 10 ~ 55 H _Z Amplitude : 1.0 mm Sweep time : 11 mins Test Period : 6 Cycles for each direction of X, Y, Z |
| 8 | Shock Test (non-operating) | 100G, 6ms Direction : ±X, ±Y, ±Z Cycle : 3 times |
| 9 | Electrostatic Discharge Test (non-operating) | Machine Mode = $\pm 200V$ C = 200pF, R = 0 Ω 1 times discharge for each pad |

Ta : ambient temperature

Note: The protective film must be removed before temperature test.

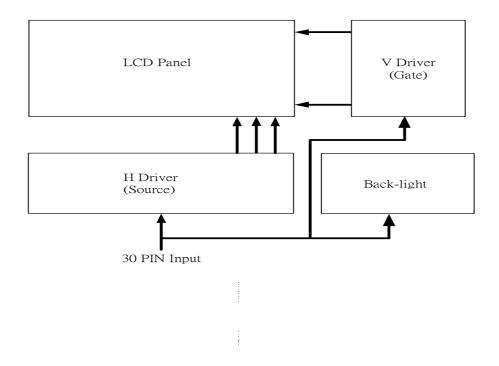
[Criteria]

- 1. Main LCD should normally work under the normally condition no defect of function, screen quality and appearance.(including : mura ,line defect ,no image)
- 2. After the temperature and humidity test, the luminance and CR (Contrast ratio), should not be lower than minimum of specification.
- 1. After the vibration and shock test, can't be found chip broken.

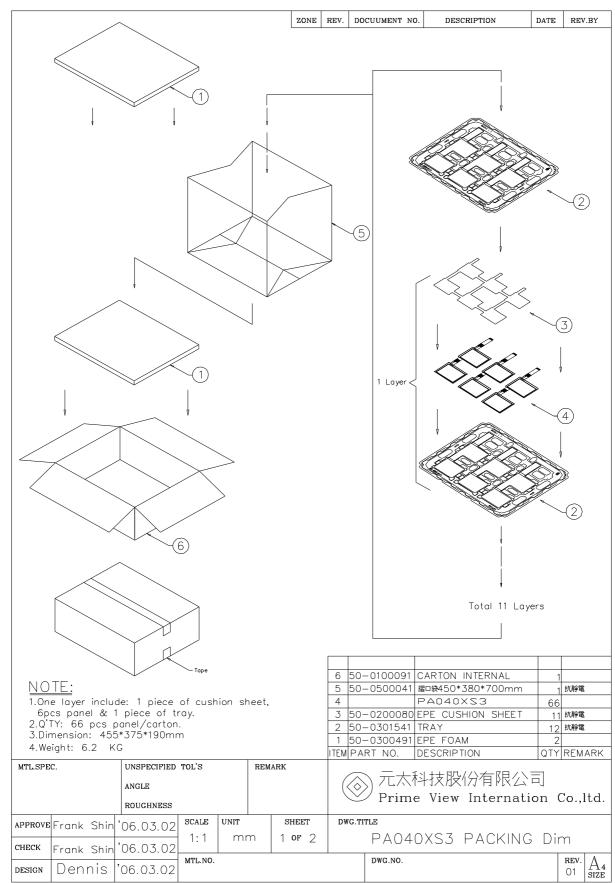
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13. Block Diagram

13-1) LCD Module Diagram



14. Packing



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|---|----------|-------|-------------------------|---|------------|-------------|----------|----------|
| NOTE: | | ZONE | REV. | DOCUUMENT | NO. | DESCRIPTION | DATE | REV.BY |
| I.Q'TY: 132 pcs panel/carton. 2.Dimension: 480*396*405mm 3.Weight: 12.5 KG Image: State states | | ZONE | REV. | DOCUUMENT | NO. | DESCRIPTION | DATE | REV.BY |
| ANGLE ROUGHNESS APPROVE Frank Shin '06.03.02 CHECK Frank F | ~~ | | 1.Q'T 2.Dim 3.Wei | Y: 132 pc nension: 4 ght: 12.5 50-01001(| 80*3 KG | 96*405mm | 1 QTY | REMARK |
| APPROVE Frank Shin '06.03.02 SCALE UNIT SHEET DWG.TITLE CHECK Frank Shin '06.03.02 1:1 mm 2 of 2 PA040XS3 PACKING Dim | ANGLE | | | | | | | Co.,ltd. |
| CHECK Frank Shin OG.03.02 1:1 mm 2 OF 2 PA040XS3 PACKING Dim | | 21557 | DWC | | | | | |
| Design Dennis '06.03.02 MTLNO. DWG.NO. REV. A. 01 STOR | 1.1 mm 2 | | Dwc | | 40) | XS3 PACKING | G Dir | n |
| | MTL NO | | | DWG.NO. | | | | |

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Revision History

| Rev. | Issued Date | Revised Contents |
|------|---------------|---|
| 1.0 | Mar. 14, 2006 | New |
| 1.1 | Ape. 14, 2006 | Page. 19 |
| | | 10. Optical Characteristics |
| | | 10-1) Specification: |
| | | Brightness |
| | | 變更前: |
| | | Typ.= 370 cd/m ² , Min.= 330 cd/m ² |
| | | 變更後: |
| | | Typ.= 350 cd/m ² , Min.= 300 cd/m ² |