

| Doc. Version | 1.4 |
|--------------|------------|
| Total Pages | 23 |
| Date | 2008/07/07 |

Product Specification

5.6" COLOR TFT-LCD MODULE

MODEL NAME: A056VN01 V0

<->>Preliminary Specification

< >Final Specification

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Note: The content of this specification is subject to change.

Record of Revision

| Version | Revise Date | Page | Content |
|---------|-------------|--------|--|
| 0.0 | 2006/12/01 | | First draft. |
| 0.1 | 2007/01/05 | | Update EE part |
| | | 4 | Update weight |
| | | 9 | Change register setting |
| | | 11 | Update vertical and horizontal timing |
| | 0007/05/07 | 12 | Update data input timing parameters |
| 1.0 | 2007/05/07 | 13~14 | Update power On/Off and standby On/Off sequence diagrams |
| | | 18 | Update touch panel FPC pin assignment and electrical characteristics |
| | | 22 | Update packing form |
| | | 23 | Update outline drawing |
| | | 7 | Added Dim remark |
| | | 9,10 | Updated Control register bit settings and definitions |
| 1.1 | 2007/06/18 | 12 | Updated PixClk and Data Input Timing Parameters |
| | | 13, 14 | Updated Power On/Off and Standby On/Off Sequence diagrams |
| | | 22 | Add soldering thickness in outline drawing |
| 1.2 | 2007/07/09 | 15 | Add Backlight Driving Conditions |
| | | 3 | Add notice 3 |
| | | 4 | Update Active area and thickness |
| | | 5,6 | Added FPC pin assignment note. |
| | | 5 | Remove temp. condition in Absolute Maximum Ratings |
| | | 7 | Added operation condition. |
| | | 9 | Updated Control register bit settings and definitions |
| | | 13 | Updated power on sequence |
| 1.3 | 2007/09/17 | 14 | Update Note 1 description |
| | | 15 | Update Note 1 description |
| | | 17 | Update Touch Panel Mechanical Characteristics |
| | | 18~19 | Update Touch Panel Life Test Condition |
| | | 20 | Update Touch Panel Attention |
| | | 21 | Update Vibration description |
| | | 22 | Update Packing form |
| | | 23 | Update Outline drawing |
| | | 3 | Update dimension |
| 1.4 | 2008/07/07 | 7 | Correct touch panel resistance of Y |
| | | 23 | Update drawing |
| 1.5 | 2008/10/20 | 23 | Update Drawing |
| | | | |



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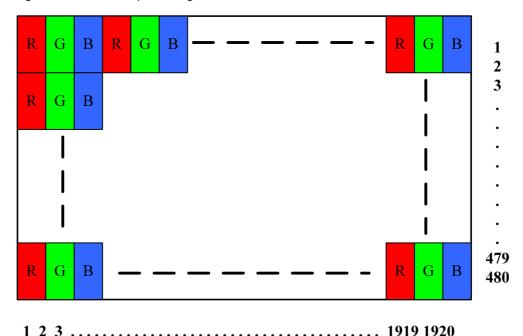


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A. Physical specifications

| NO. | Item | Specification | Remark |
|-----|--------------------------|----------------------------------|--------|
| 1 | Display Resolution (dot) | 640RGB (H) X 480 (V) | |
| 2 | Active Area (mm) | 112.8 (H) X 84.6 (V) | |
| 3 | Screen Size (inch) | 5.6" (Diagonal) | |
| 4 | Dot Pitch (mm) | 0.059 (H) X 0.177 (V) | |
| 5 | Color Configuration | R. G. B. Stripe | Note 1 |
| 6 | Color Depth | 262K Colors | Note 2 |
| 7 | Overall Dimension (mm) | 126.8 (H) X 101.15 (V) X 8.3 (T) | Note 3 |
| 8 | Weight (g) | 138 | |
| 9 | Touch Panel | Anti-Glare | |
| 9 | surface treatment | Anti-Glare | |
| 10 | Display Mode | Normally White | |

Note 1: Below figure shows dot stripe arrangement.



Note 2: Full color display depends on 6-bit data signal (pin 12~17, 19~24 and 26~31).

Note 3: Not include FPC.



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B. Electrical Specifications

1. FPC Pin Assignment

| Pin No. | Symbol | Туре | Description | Remark |
|---------|--------|------|------------------------------------|------------------|
| 1 | VLED | PI | Power for LED backlight (+5 VDC) | Note 1 |
| 2 | VLED | PI | Power for LED backlight (+5 VDC) | Note 1 |
| 3 | VLED | PI | Power for LED backlight (+5 VDC) | Note 1 |
| 4 | DIM | 1 | Dimmer Control for Backlight (PWM) | Refer section C2 |
| 5 | LEDGND | PI | Ground for LED Backlight | |
| 6 | LEDGND | PI | Ground for LED Backlight | |
| 7 | LEDGND | PI | Ground for LED Backlight | |
| 8 | GND | PI | Ground | |
| 9 | VDD | PI | Power Supply (3.3v) | Note 2 |
| 10 | VDD | PI | Power Supply (3.3v) | Note 2 |
| 11 | GND | PI | Ground | |
| 12 | R0 | 1 | Red Data (LSB) | |
| 13 | R1 | 1 | Red Data | |
| 14 | R2 | I | Red Data | |
| 15 | R3 | I | Red Data | |
| 16 | R4 | I | Red Data | |
| 17 | R5 | I | Red Data (MSB) | |
| 18 | GND | PI | Ground | |
| 19 | G0 | I | Green Data (LSB) | |
| 20 | G1 | I | Green Data | |
| 21 | G2 | I | Green Data | |
| 22 | G3 | 1 | Green Data | |
| 23 | G4 | I | Green Data | |
| 24 | G5 | I | Green Data (MSB) | |
| 25 | GND | PI | Ground | |



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| Pin No. | Symbol | Туре | Description | Remark |
|---------|--------|------|---|--------|
| 26 | В0 | I | Blue Data (LSB) | |
| 27 | B1 | I | Blue Data | |
| 28 | B2 | I | Blue Data | |
| 29 | В3 | I | Blue Data | |
| 30 | B4 | I | Blue Data | |
| 31 | B5 | I | Blue Data (MSB) | |
| 32 | GND | PI | Ground | |
| 33 | PXLCLK | I | Pixel Clock | |
| 34 | HSYNC | I | Horizontal Sync Signal | |
| 35 | VSYNC | I | Vertical Sync Signal | |
| 36 | DE | I | Data Enable | |
| 37 | GND | PI | Ground | |
| 38 | SPENA | 1 | Serial Port Data Enable (Normally High) | |
| 39 | SPCK | I | Serial Port Clock (Normally High) | |
| 40 | SPDA | I/O | Serial Port Data Input/Output | |

Note: I: Input; O: Output; P: Power.

Note 1: VLED current supply must be greater than 380mA. Note 2: VDD current supply must be greater than 300mA.

2. Absolute Maximum Ratings

| Item | Symbol | Min. | Max. | Unit | Remark |
|----------------------|--------|------|----------|------|--------|
| Power voltage | VDD | -0.3 | 5.0 | V | Note 1 |
| Input signal voltage | Vi | -0.3 | VDD+ 0.3 | V | |

Note 1: Functional operation should be restricted under normal ambient temperature.



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C. Electrical Characteristics

The following items are measured under stable condition and suggested application circuit.

1. TFT- LCD Typical Operation Condition

| Item | Symbol | Min. | Тур. | Max. | Unit | Remark |
|--------------------|-------------------|---------|--------|---------|------|--------|
| VDD voltage input | VDD | 3.1 | 3.3 | 3.5 | V | |
| VDD current input | IVDD | 300 | | | mA | |
| Input high voltage | Vh | 0.7*VDD | - | VDD | V | |
| Input low voltage | VI | 0 | - | 0.3*VDD | | |
| PXLCLK frequency | f _{DCLK} | | 25.175 | 28 | MHz | |

2. Dimmer signal Operation Condition

| Item | Symbol | Min. | Тур. | Max. | Unit | Remark |
|--------------------|------------------|------|------|------|------|-----------------------------------|
| VLED voltage input | VLED | 4.8 | 5.0 | 5.2 | V | |
| VLED current input | ILED | 380 | | | mA | |
| DIM signal | V _{DIM} | | 3.3 | | V | 0V = light on 3.3V = light off |
| DIM Frequency | f _{DIM} | | 24.5 | | KHz | |



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3. 3-Wire Serial Interface and Register Parameters

The 3-wire serial port is the communication interface for all the function and parameter setting. The communication is bi-directional controlled by the "R/W" bit (read not write) in the address field.

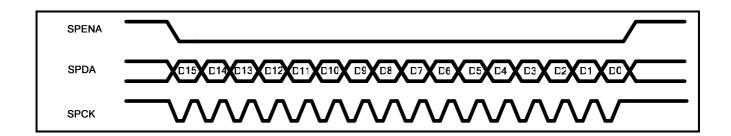
Under the read mode, the 3-Wire engine will return the data during "Data phase" (refer to figure below). The returned data should be latched at the rising edge of the SPCK signal by the external controller. During the read operation, the external controller should float the SPDA signal during "Hi-Z phase" and "Data phase". Under the write mode, data in the "Hi-Z phase" will be ignored by the 3-Wire engine.

Each Read/Write operation should be exactly 16 bit. To prevent from incorrect setting of the internal register, any write operation with more or less than 16 bit data during a SPENA Low period will be ignored by 3-Wire engine.

Register settings must send to panel's master source IC and slave source IC. The slave address has a 0x20 offset to the master address. For example,

Master R02: 3-wire address D[15:10] = 000010b.

Slavev R02: 3-wire address D[15:10] = 100010b.



3-Wire comment format

| Bit | Description |
|---------|--|
| D15-D10 | Register Address [5:0]. |
| D9 | W/R control bit. "1" for Write; "0" for Read |
| D8 | Hi-Z bit during read mode. Any data within this bits will be ignored during write mode |
| D7-D0 | Data for the W/R operation to the address indicated by Address phase |

Write format

| MSB | L | SB | | | | | | | | | | | | | |
|-------|---------|----------|------|-----|-----|----|----|------|--------|---------|----------|----------|----|----|----|
| D15 | D14 | D13 | D12 | D11 | D10 | D9 | D8 | D7 | D6 | D5 | D4 | D3 | D2 | D1 | D0 |
| Regis | ter Ado | iress [5 | 5:0] | | | 1 | Х | DATA | (Issue | by exte | ernal co | ontrolle | r) | | |



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Read format

| MSB | MSB LSB | | | | | | | | | | | | | | |
|-------|------------------------|-----|-----|-----|-----|----|------|------|--------|--------|---------|-------|----|----|----|
| D15 | D14 | D13 | D12 | D11 | D10 | D9 | D8 | D7 | D6 | D5 | D4 | D3 | D2 | D1 | D0 |
| Regis | Register Address [5:0] | | | | | | Hi-Z | DATA | (Issue | by 3-W | ire eng | jine) | | | |

Control register bit settings and definitions

| Name | D[15] | D[14:10] | Bit [9] | Bit [8] | Bit [7] | Bit [6] | Bit [5] | Bit [4] | Bit [3] | Bit [2] | Bit [1] | Bit [0] |
|------|-------|----------|---------|---------|---------|---------|---------|---------|---------|---------|-----------|------------|
| R00 | M/S | 00000 | R/W | х | 0 | 0 | 0 | 0 | 0 | 1 | STBYB [1] | RESETB [1] |
| R01 | M/S | 00001 | R/W | х | 1 | 0 | 1 | 0 | 0 | 0 | 1 | 0 |
| R02 | M/S | 00010 | R/W | х | 0 | 0 | 0 | 1 | 0 | 1 | 0 | 1 |
| R03 | M/S | 00011 | R/W | х | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 |
| R04 | M/S | 00100 | R/W | х | DDLY7 | DDLY6 | DDLY5 | DDLY4 | DDLY3 | DDLY2 | DDLY1 | DDLY0 |
| R05 | M/S | 00101 | R/W | х | Х | HDLY6 | HDLY5 | HDLY4 | HDLY3 | HDLY2 | HDLY1 | HDLY0 |
| R07 | M/S | 00111 | R/W | х | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 |

Note1: Register function active at the falling edge of Vsync signal except STBYB, RESETB and R03 register bits.

Note2: Master(M) = 0 / Slave(S) = 1.

Note3: Read(R) = 0 / Write(W) = 1.

Note4: X = don't care.

R00: System Control Register

| Bit | Name | Initial | R/W | Description |
|---------|--------|---------|-----|---|
| Bit [1] | STBYB | 1b | R/W | Standby Mode function control. |
| | | | | STBYB = "0", TCON, Source output will turn off and outputs are |
| | | | | High-Z. |
| | | | | STBYB = "1", Normal operation |
| Bit [0] | RESETB | 1b | R/W | Global Reset Register. |
| | | | | Write "0" to reset whole chip. This bit will set to "1" automatically |
| | | | | after chip was reset. |

R04 : Contrast Control Register

| Bit | Name | Initial | R/W | Description |
|-----------|-----------|---------|-----|---|
| Bit [7:0] | DDLY[7:0] | 45h | R/W | Select the HSD signal to 1 st input data delay timing. |
| | | | | Refer to "Thbp" symbol in Section 4. |

R05: Gate Timing Delay Cotnrol Register

| Bit | Name | Initial | R/W | Description |
|-----------|-----------|---------|-----|---|
| Bit [7] | • | 0b | - | Reserve |
| Bit [6:0] | HDLY[6:0] | 0Ch | R/W | Select the Gate start pulse output delay timing |
| | | | | Refer to "Tvbp" symbol in Section 4. |



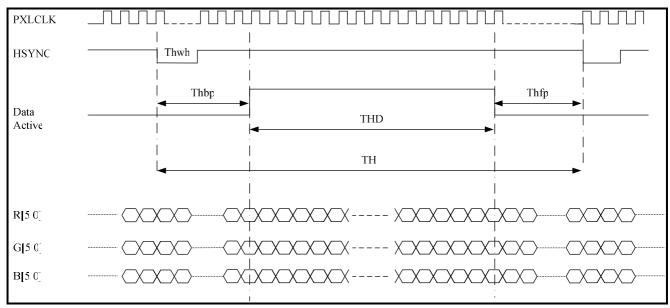
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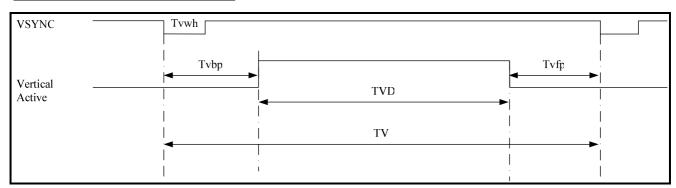
4. AC Timing

a. Timing Diagram

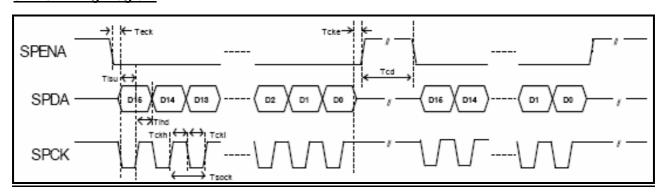
Horizontal Input Data Timing Diagram



Vertical Input Data Timing Diagram



3-wire Timing Diagram





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b. Timing Condition

PixClk and Data Input Timing Parameters

| Parameter | Symbol | Min | Тур | Max | Unit | Conditions |
|---------------------------|--------|-----|--------|-------|-------|----------------|
| CLKIN clock time | Tdclk | | 35.714 | 39.72 | ns | CLKIN = 28 MHz |
| H-sync width | Thwh | 1 | 10 | 255 | Tdclk | |
| Horizontal back portch | Thbp | 40 | 70 | 255 | Tdclk | |
| Horizontal front portch | Thfp | 8 | 90 | 255 | Tdclk | |
| Horizontal data active | THD | 640 | 640 | 640 | Tdclk | |
| time | | | | | | |
| Horizontal period | тн | 688 | 800 | 1150 | Tdclk | 1TH = 1 line |
| V-sync width | Tvwh | 1 | 2 | 255 | тн | |
| Vertical back portch | Tvbp | 6 | 13 | 128 | тн | |
| Vertical front portch | Tvfp | 4 | 32 | 255 | тн | |
| Vertical data active time | TVD | 480 | 480 | 480 | тн | |
| Vertical period | TV | 490 | 525 | 863 | тн | 1 TV = 1 field |

3-Wire Timing Parameters

| Parameter | Symbol | Min | Тур | Max | Unit | Conditions |
|--------------------------|----------|-----|-----|-----|------|------------|
| Serial Clock Period Time | Tspck | 320 | - | - | ns | |
| SPCK pulse duty cycle | Tscdut | 40 | 50 | 60 | % | |
| Serial data setup time | Tisu | 120 | - | - | ns | |
| Serial data hold time | Tihd | 120 | - | - | ns | |
| Serial clock high/low | Tckl/ckh | 120 | - | - | ns | |
| SPENB select | Tcd | 1 | - | - | us | |
| distinguish | | | | | | |



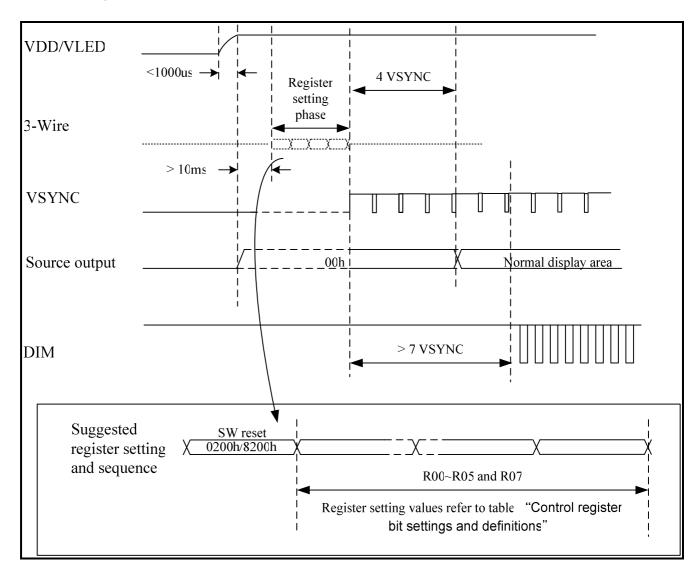
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5. Power On/Off and Standby On/Off Sequence

The LCD apopts high voltage driver IC, so it could be permanently damaged under a wrong power on/off sequence. The suggested LCD power sequence is below:

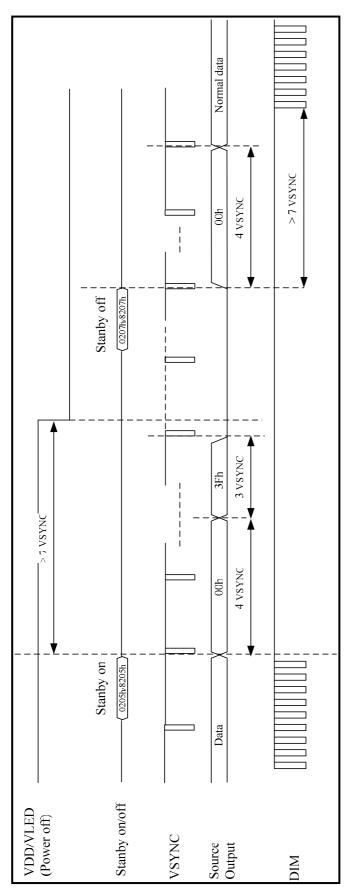
Power On Sequence





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Power off and Standby On/Off Sequence





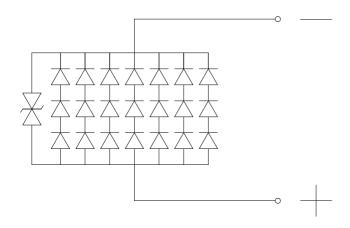
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6. Backlight Driving Conditions

| Parameter | Symbol | Min. | Тур. | Max. | Unit | Remark |
|---------------|--------|--------|------|------|------|-----------|
| LED Current | ΙL | | 140 | | mA | Note 1 |
| LED Voltage | V_L | | 9.9 | | V | |
| LED Life Time | LL | 20,000 | | | Hr | Note 2, 3 |

Note 1: 21pcs LED (3 serial – 7 parallel type).



Note 2 :Define "LED Lifetime": brightness is decreased to 50% of the initial value.

LED Lifetime is restricted under normal condition,

ambient temperature = 25°C and LED current = 140mA.

Note 3: If it uses larger LED current I_L more than 140mA, it maybe decreases the LED lifetime.



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D. Optical specification

| Item | Symbol | Condition | Min. | Тур. | Max. | Unit | Remark |
|--------------------|----------------|---------------|------|------|------|-------------------|-----------|
| Response Time | | | | | | | |
| Rise | Tr | θ=0° | - | 15 | - | ms | Note 4 |
| Fall | Tf | 0-0 | - | 25 | - | ms | |
| Contrast ratio | CR | At optimized | 300 | 400 | | | Note 6, 7 |
| Contrast ratio | OIX | viewing angle | 300 | 400 | | | Note 0, 1 |
| Viewing Angle | | | | | | | |
| Тор | | | 35 | 45 | - | | |
| Bottom | | CR≧10 | 55 | 65 | - | deg. | Note 8 |
| Left | | | 55 | 65 | - | | |
| Right | | | 55 | 65 | | | |
| Brightness | Y _L | θ=0° | 250 | 350 | - | cd/m ² | Note 9 |
| White Chromaticity | Х | θ=0° | 0.26 | 0.31 | 0.36 | | |
| White Chromaticity | у | θ=0° | 0.28 | 0.33 | 0.38 | | |

Note 1: Measurement is in the dark room, optical ambient temperature =25°C, and backlight current IL=140 mA

Note 2: To be measured in the dark room.

Note 3:To be measured on the center area of panel with a field angle of 1°by Topcon luminance meter BM-7, after 10 minutes operation.

Note 4: Definition of response time:

The output signals of photo detector are measured when the input signals are changed from "black" to "white" (falling time) and from "white" to "black" (rising time), respectively.

Note 5. From liquid crystal characteristics, response time will become slower and the color of panel will become darker when ambient temperature is below 25°C.

Note 6. Definition of contrast ratio:

Contrast ratio is calculated with the following formula.

Photo detector output when LCD is at "White" state

Contrastratio (CR)=

Photo detector output when LCD is at "Black" state

Note 7. White $Vi=V_{i50} + 1.5V$

Black Vi=V_{i50} ± 2.0V

"±" means that the analog input signal swings in phase with COM signal.

" $+\overline{}$ " means that the analog input signal swings out of phase with COM signal.

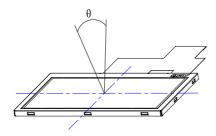
Vi50: The analog input voltage when transmission is 50%

The 100% transmission is defined as the transmission of LCD panel when all the input terminals of module are electrically opened.



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Note 8. Definition of viewing angle: refer to figure as below.



Note 9. Measured at the center area of the panel when all the input terminals of LCD panel are electrically opened.



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E. Touch Screen Panel Specifications

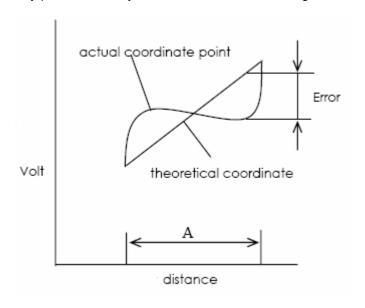
1. FPC Pin Assignment

| Pin No. | Symbol | I/O |
|---------|--------|-----|
| 1 | TP_U | 0 |
| 2 | TP_R | 0 |
| 3 | TP_D | 0 |
| 4 | TP_L | 0 |

2. Electrical Characteristics

| Item | Min. | Max. | Unit | Remark | | |
|-----------------------|------|-------|------|--------|--------------|--|
| Rate DC Volta | | 7 | V | | | |
| Resistance | Х | 400 | 1200 | Ω | At connector | |
| Resistance | Y | 150 | 700 | 12 | | |
| Linearity | | -1.5% | 1.5% | | Note 1 | |
| Response Time | | | 30 | ms | | |
| Insulation Resistance | | 20 | | МΩ | DC 25V | |

Note 1: Measurement condition of Linearity: difference between actual voltage & theoretical voltage is an error at any points. Linearity is the value max. error voltage divided by voltage difference on active area.





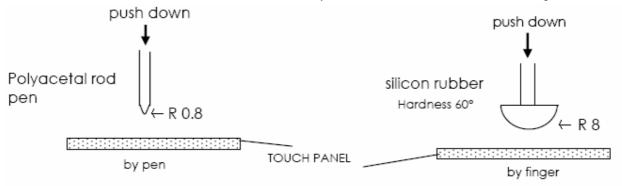
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3. Mechanical Characteristics

| Item | Min. | Max. | Unit | Remark |
|--------------------------|------|------|------|------------|
| Hardness of Surface | 3 | 1 | Н | JIS K-5600 |
| Operation Force (Pen) | 50 | | gf | Note 1, 2 |
| Operation Force (Finger) | 80 | | gf | Note 1, 2 |

Note 1: Within "guaranteed active area", but not on the edge and dot-spacer.

Note 2: Measurement condition of Operation Force: Within "guaranteed active area". When user pushes down on the film, resistance between X & Y axis must be equal or lower than $2k\Omega$. Below is test figure.



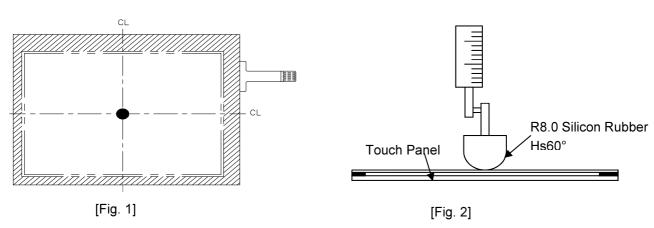
4. Life test Condition

| Item | Min. | Max. | Unit | Remark |
|-------------------|-----------------|------|-------|--------|
| Finger Touch Life | 10 ⁶ | | times | Note 1 |
| Pen Sliding Life | 10 ⁵ | | times | Note 2 |

Note 1. Finger Touch test:

Test Position: Center of Active Area. (Fig 1)
Test Pen R8.0 Silicon Rubber Hs50~60°. (Fig .2)

Test Method: Knock at the single point





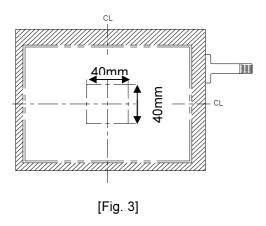
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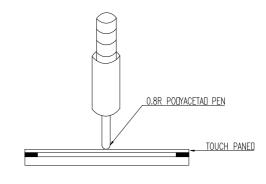
Note 2. Pen Sliding test:

Test Position: Center in Active Area 40mm×40mm (Fig. 3)

Test pen: R0.8 polyacetal Stylus. (Fig 4)

Test method: Write in active area.





[Fig. 4]

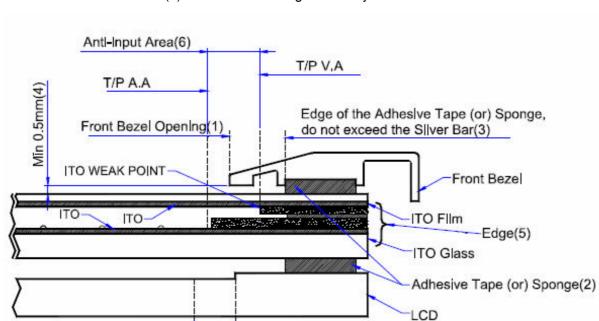


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5. Attention

INSTALLATION GUIDE

- (1) Front Bezel Opening must be located between View Area and Active Area
- (2) Elastic materials are recommended as supports to fix the Touch Panel.
- (3) Support materials must be designed out of the Silver Bar.
- (4) Front Bezel Opening must be designed with enough gap to the Touch Panel surface in any conditions.
- (5) After mounting, avoid direct metal contact with edges of the Touch Panel.
- *(6) The area between the View Area and Active Area is Anti-input Area and also Weak Area. It is absolutely forbidden to draw lines along the edge of the Bezel Opening in the Weak Area because it will cause ITO layer to damage and failure of the Touch Panel
- *(7) This installation guide is only for customer reference.



*Note: Please take attention seriously on items 6, 7.

LCD BEZEL

LCD A.A



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F. Reliability test items:

| No. | Test items | Conditions | Remark |
|-----|----------------------------------|---|---------------|
| 1 | High Temperature Storage | Ta= 70°C 240H | rs |
| 2 | Low Temperature Storage | Ta= -10℃ 240H | rs |
| 3 | High Ttemperature Operation | Tp= 60°C 240H | rs |
| 4 | Low Temperature Operation | Ta= 0°C 240H | Irs |
| 5 | High Temperature & High Humidity | Tp= 60℃, 90% RH 240H | Irs Operation |
| 6 | Heat Shock | -10°C ~70°C /50 cycles 2Hrs | s/cycle |
| 7 | Electrostatic Discharge | ±200V,200pF(0Ω), once for each t | erminal |
| 8 | Vibration | Stoke 1 | , , |
| 9 | Mechanical Shock | 100G . 6ms, ±X,±Y,±2 3 times for each directi | JIS C7021, |
| 10 | Vibration (With Carton) | Random vibration: 0.015G ² /Hz from 5~200 –6dB/Octave from 200~5 | |
| 11 | Drop (With Carton) | Height: 60cm 1 corner, 3 edges, 6 surfa | aces |

Note 1: Ta: Ambient Temperature.

Note 2: Squarely inspect all LCD function before and after ambient environment test.

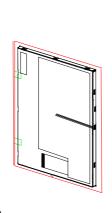
Note3: In the standard conditions, there is not display function NG issue occurred. All the cosmetic specification is judged before the reliability stress.

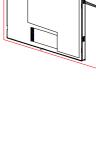


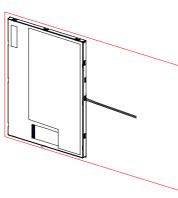
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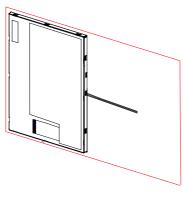
Version: Page:

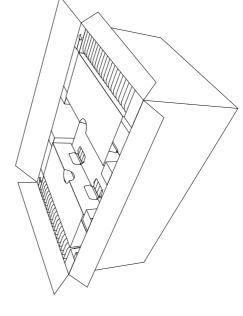
G. Packing Form

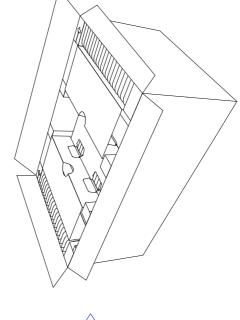










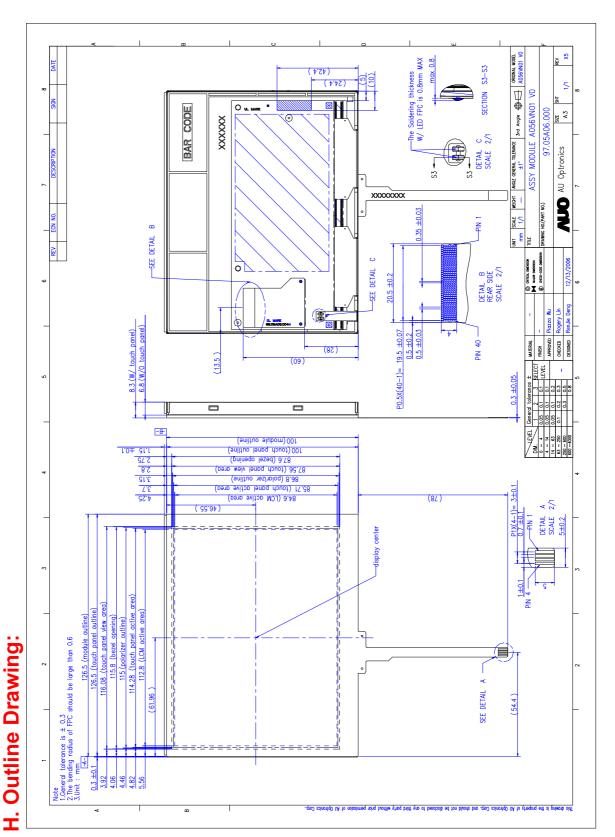


Max. capacity: 40 modules Max. Weight : 9kg Carton outline : 520 x 340 x 250 mm



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