

CHIMEI INNOLUX DISPLAY CORPORATION

LCD MODULE SPECIFICATION

Customer: _____
Model Name: AT043TN24 V.7
SPEC NO.: A043-24-TT-71
Date: 2010/04/19
Version: 01

- Preliminary Specification
 Final Specification

| Remark |
|--|
| <input checked="" type="checkbox"/> Touch Screen Panel (3-in-1FPC) |
| <input checked="" type="checkbox"/> Low Power Consumption |

For Customer's Acceptance

| Approved by | Comment |
|-------------|---------|
| | |

| Approved by | Reviewed by | Prepared by |
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| 2010/04/24 | 2010/04/23 | 2010/04/23 |

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Record of Revision

| Version | Revise Date | Page | Content |
|--------------|-------------|------|------------------|
| Pre-spec .01 | 2010/04/19 | | Initial Release. |

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1. General Specifications

| No. | Item | Specification | Remark |
|-----|-----------------------------|---------------------------------|--------|
| 1 | LCD size | 4.3 inch(Diagonal) | |
| 2 | Driver element | a-Si TFT active matrix | |
| 3 | Resolution | 480 × 3 (RGB) × 272 | |
| 4 | Display mode | Normally White, Transmissive | |
| 5 | Dot pitch | 0.066(W) × 0.198(H) mm | |
| 6 | Active area | 95.04(W) × 53.856(H) mm | |
| 7 | Module size | 105.5(W) × 67.2(H) × 4.05(D) mm | Note 1 |
| 8 | Surface treatment | Anti-Glare | |
| 9 | Color arrangement | RGB-stripe | |
| 10 | Interface | Digital | |
| 11 | Backlight Power consumption | 0.558 W(Typ.) | |
| 12 | Panel Power consumption | 0.056 W (Typ.) | |
| 13 | Weight | TBD (Typ.) | |

Note 1: Refer to Mechanical Drawing.

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2. Pin Assignment

2.1.TFT LCD Panel Driving Section

FPC Connector is used for the module electronics interface. The recommended model is "FH19SC-40S-0.5SH" manufactured by HIROSE.

| Pin No. | Symbol | I/O | Function | Remark |
|---------|-------------------|-----|---------------------------------|--------|
| 1 | V _{LED-} | P | Power for LED backlight cathode | |
| 2 | V _{LED+} | P | Power for LED backlight anode | |
| 3 | GND | P | Power ground | |
| 4 | V _{DD} | P | Power voltage | |
| 5 | R0 | I | Red data (LSB) | |
| 6 | R1 | I | Red data | |
| 7 | R2 | I | Red data | |
| 8 | R3 | I | Red data | |
| 9 | R4 | I | Red data | |
| 10 | R5 | I | Red data | |
| 11 | R6 | I | Red data | |
| 12 | R7 | I | Red data (MSB) | |
| 13 | G0 | I | Green data (LSB) | |
| 14 | G1 | I | Green data | |
| 15 | G2 | I | Green data | |
| 16 | G3 | I | Green data | |
| 17 | G4 | I | Green data | |
| 18 | G5 | I | Green data | |
| 19 | G6 | I | Green data | |
| 20 | G7 | I | Green data (MSB) | |

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| | | | | |
|----|------|-----|--|--|
| 21 | B0 | I | Blue data (LSB) | |
| 22 | B1 | I | Blue data | |
| 23 | B2 | I | Blue data | |
| 24 | B3 | I | Blue data | |
| 25 | B4 | I | Blue data | |
| 26 | B5 | I | Blue data | |
| 27 | B6 | I | Blue data | |
| 28 | B7 | I | Blue data (MSB) | |
| 29 | GND | P | Power ground | |
| 30 | CLK | I | Pixel clock | |
| 31 | DISP | I | Display on/off | |
| 32 | NC | - | No connection | |
| 33 | NC | - | No connection | |
| 34 | DE | I | Data Enable | |
| 35 | NC | - | No connection | |
| 36 | GND | P | Power ground | |
| 37 | X1 | I/O | Right electrode – differential analog | |
| 38 | Y1 | I/O | Bottom electrode – differential analog | |
| 39 | X2 | I/O | Left electrode – differential analog | |
| 40 | Y2 | I/O | Top electrode – differential analog | |

I: input, O: output, P: Power

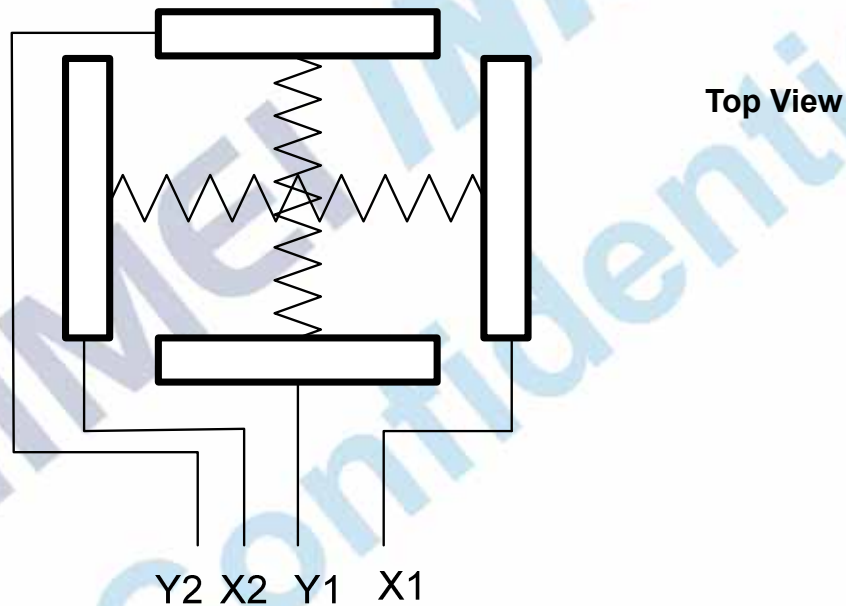
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2.2. Touch Screen Panel Section

| Pin No. | Symbol | I/O | Function | Remark |
|---------|--------|--------|--|--------|
| 1 | X1 | Right | Right electrode – differential analog | |
| 2 | Y1 | Bottom | Bottom electrode – differential analog | |
| 3 | X2 | Left | Left electrode – differential analog | |
| 4 | Y2 | Top | Top electrode – differential analog | |

Note: Touch Screen Panel Block



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3. Operation Specifications

3.1. Absolute Maximum Ratings

(Note 1)

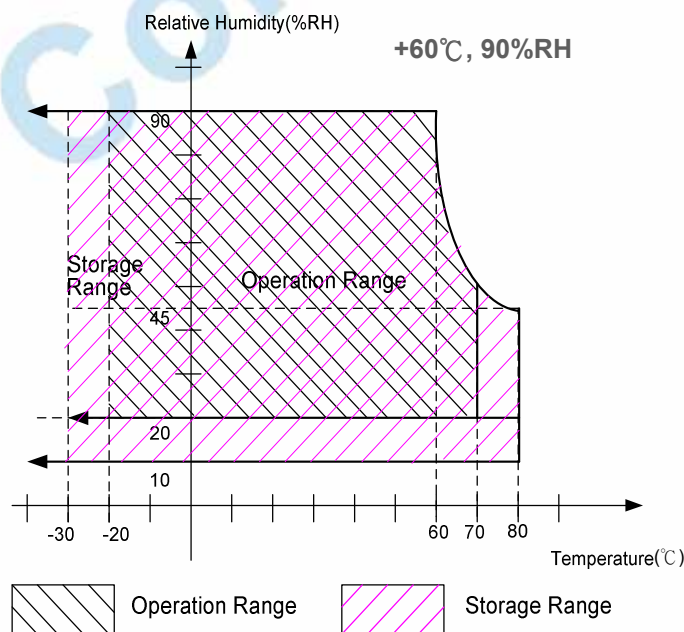
| Item | Symbol | Values | | Unit | Remark |
|-----------------------|-----------------|--------|------|------|--------------------|
| | | Min. | Max. | | |
| Power voltage | V _{DD} | -0.5 | 5.0 | V | |
| Input signal voltage | Logic input | -0.5 | 5.0 | V | |
| Operation temperature | T _{OP} | -20 | 70 | °C | Note 3, 4 |
| Storage temperature | T _{ST} | -30 | 80 | °C | Note 3, 4 |
| LED Reverse Voltage | V _R | - | 1.2 | V | Each LED Note 2 |
| LED Forward Current | I _F | - | 25 | mA | Each LED |

Note 1: The absolute maximum rating values of this product are not allowed to be exceeded at any times. A module should be used with any of the absolute maximum ratings exceeded, the characteristics of the module may not be recovered, or in an extreme condition, the module may be permanently destroyed.

Note 2: V_R Conditions: Zener Diode 20mA

Note 3: 90% RH Max. (Max wet temp. is 60°C)

Maximum wet-bulb temperature is at 60°C or less. And No condensation (no drops of dew)



Note 4: In case of temperature below 0°C, the response time of liquid crystal (LC) becomes slower and the color of panel darker than normal one.

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3.2. Typical operation conditions

| Item | Symbol | Values | | | Unit | Remark |
|--------------------------|--------------|-------------|------|-------------|------|-----------------|
| | | Min. | Typ. | Max. | | |
| Power voltage | V_{DD} | 3.1 | 3.3 | 3.5 | V | |
| Current for Driver | $I_{V_{DD}}$ | - | 17 | 25 | mA | $V_{DD} = 3.3V$ |
| Input logic high voltage | V_{IH} | $0.8V_{DD}$ | - | V_{DD} | V | Note 1 |
| Input logic low voltage | V_{IL} | GND | - | $0.2V_{DD}$ | V | |

Note1: CLK, DE, R0~ R7, G0~ G7, B0~ B7.

3.3 Backlight Driving Conditions

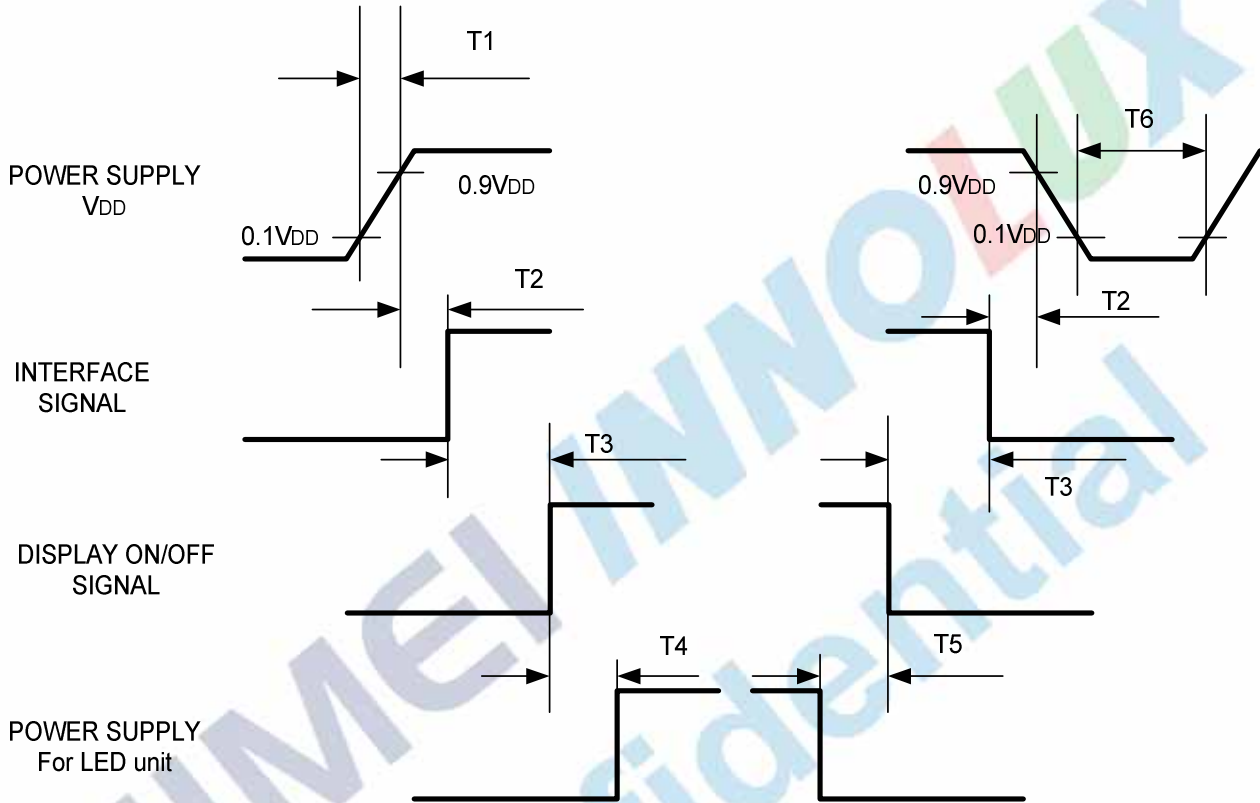
| Item | Symbol | Values | | | Unit | Remark |
|---------------------------|--------|--------|------|------|------|--------|
| | | Min. | Typ. | Max. | | |
| Voltage for LED Backlight | V_L | 25.2 | 27.9 | 31.5 | V | Note 2 |
| Current for LED Backlight | I_L | 18 | 20 | 22 | mA | |
| LED life time | - | 20,000 | - | - | Hr | Note 1 |

Note 1: The "LED life time" is defined as the module brightness decrease to 50% original brightness that the ambient temperature is 25°C and $I_L = 20mA$. The LED lifetime could be decreased if operating I_L is larger than 20 mA.

Note 2: The LED Supply Voltage is defined by the number of LED at $T_a = 25^\circ C$ and $I_L = 20mA$.

3.4. Power Sequence

To prevent a latch-up or DC operation of the LCD module, the power on/off sequence should be as the diagram below.



| Symbol | Specification | Symbol | Specification |
|--------|-----------------------------------|--------|----------------------------|
| T1 | $0 \leq T1 \leq 10 \text{ msec}$ | T4 | $160 \text{ msec} \leq T4$ |
| T2 | $0 \leq T2 \leq 100 \text{ msec}$ | T5 | $160 \text{ msec} \leq T5$ |
| T3 | $0 \leq T3 \leq 200 \text{ msec}$ | T6 | $1 \text{ msec} \leq T6$ |

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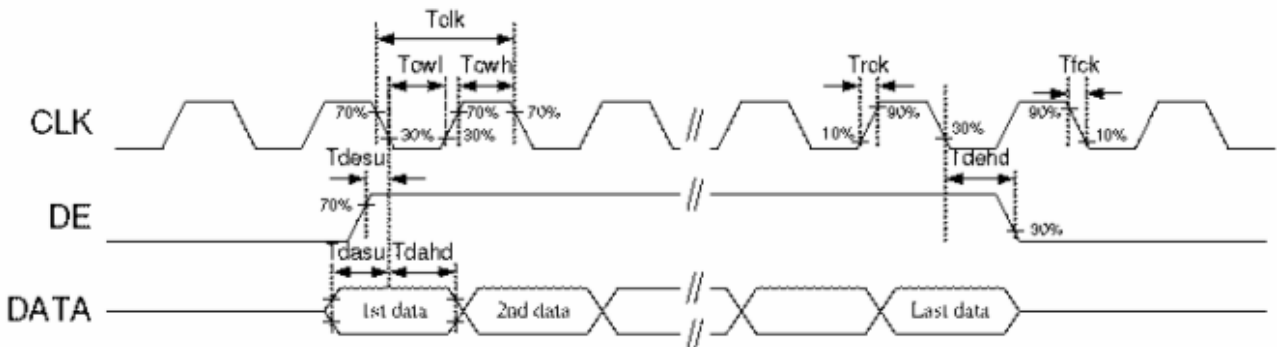
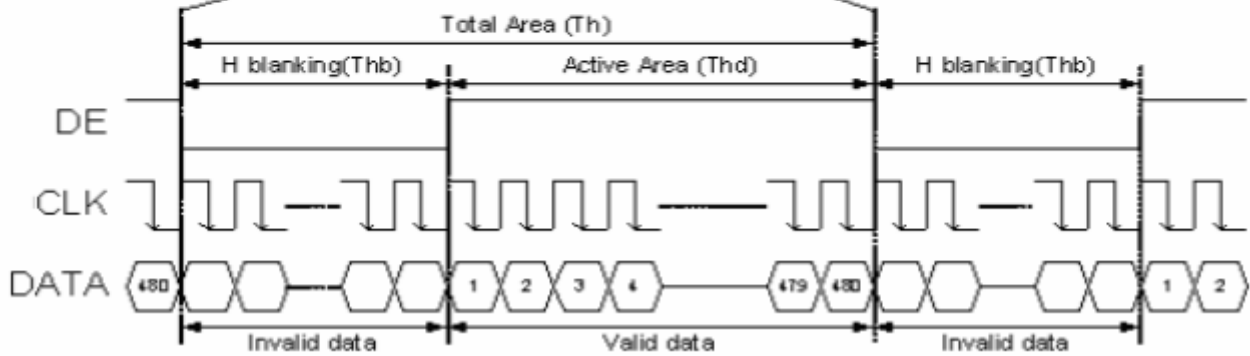
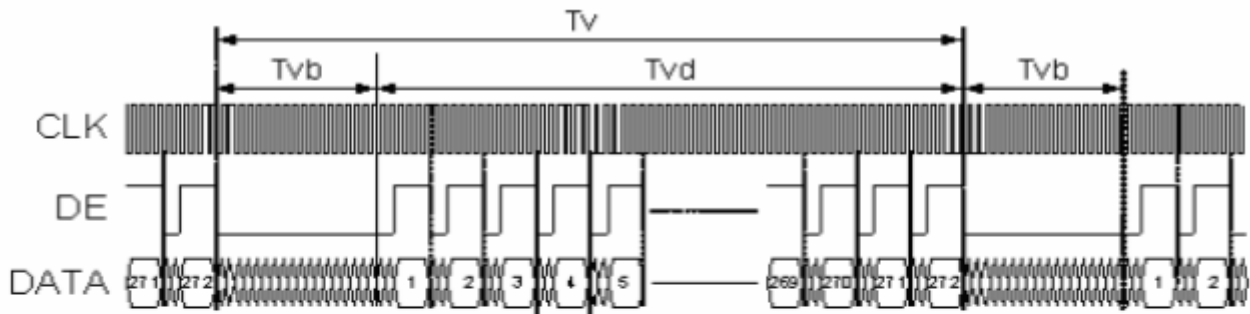
3.5. Timing Characteristics

3.5.1. Timing Conditions

Parallel DE mode RGB input timing table

| Parameter | Symbol | Value | | | Unit |
|---------------------------|-------------------|-------|------|------|------|
| | | Min. | Typ. | Max. | |
| CLK frequency | fclk | 7 | 9 | 12 | MHz |
| DEV period time | Tv | 277 | 288 | 400 | H |
| DEV display area | Tvd | 272 | | | H |
| DEV blanking | Tvb | 5 | 16 | 128 | H |
| DEH period time | Th | 520 | 525 | 800 | CLK |
| DEH display area | Thd | 480 | | | CLK |
| DEH blanking | Thb | 40 | 45 | 320 | CLK |
| CLK cycle time | Tclk | 83 | 110 | 143 | ns |
| Clock width of high level | Tcwh | 40 | 50 | 60 | % |
| Clock width of low level | Tcwl | 40 | 50 | 60 | % |
| Clock rising time | t _{rck} | | - | 9 | ns |
| Clock falling time | t _{fcck} | | - | 9 | ns |
| Data Setup Time | t _{desu} | 10 | - | - | ns |
| Data Hold Time | t _{dahd} | 10 | - | - | ns |
| DE Setup Time | t _{desu} | 10 | - | - | ns |
| DE Hold Time | t _{dehd} | 10 | - | - | ns |

3.5.2. Timing Diagram



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4. Touch Screen Panel Specifications

4.1. Electrical Characteristics

| Item | Value | | | Unit | Remark |
|-----------------------|-------|------|------|------------|---------------------------|
| | Min. | Typ. | Max. | | |
| Linearity | -1.5 | - | 1.5 | % | Analog X and Y directions |
| Terminal Resistance | 300 | - | 1500 | Ω | X |
| | 100 | - | 900 | Ω | Y |
| Insulation resistance | 25 | - | - | M Ω | DC 25V |
| Voltage | - | 5 | 7 | V | DC |
| Chattering | - | - | 10 | ms | 100k Ω pull-up |
| Transparency | 80 | - | - | % | JIS K7105 |

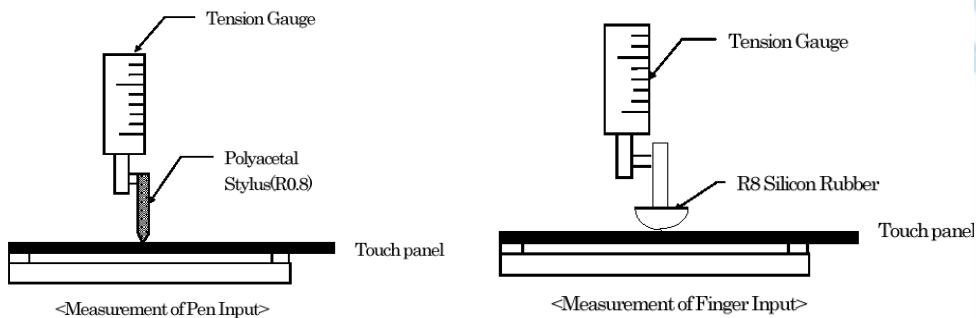
Note: Avoid operating with hard or sharp material such as a ball point pen or a mechanical pencil except a polyacetal pen (tip R0.8mm or less) or a finger.

4.2. Mechanical & Reliability Characteristics

| Item | Value | | | Unit | Remark |
|-------------------------------|---------------|------|------|------------|-----------|
| | Min. | Typ. | Max. | | |
| Activation force | 80 | - | - | gf | Note 1 |
| Durability-surface scratching | Write 100,000 | - | - | characters | Note 2 |
| Durability-surface pitting | 1,000,000 | - | - | touches | Note 3 |
| Surface hardness | 3 | - | - | H | JIS K5400 |

Note 1: Activation force test condition

- (1) Input DC 5V on X direction, Drop off Polyacetal Stylus (R0.8), until output voltage stabilize ,then get the activation force ◦
- (2) R8.0mm Silicon rubber for finger Activation force test
- (3) Test point: 9 points



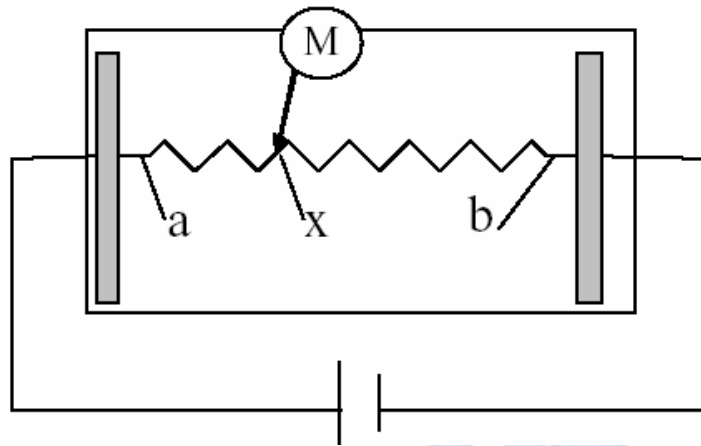
Note 2: Measurement for surface area.

- Scratch 100,000 times straight line on the film with a stylus change every 20,000 times.
- Force: 250gf.
- Speed: 60mm/sec.
- Stylus: R0.8 polyacetal tip.

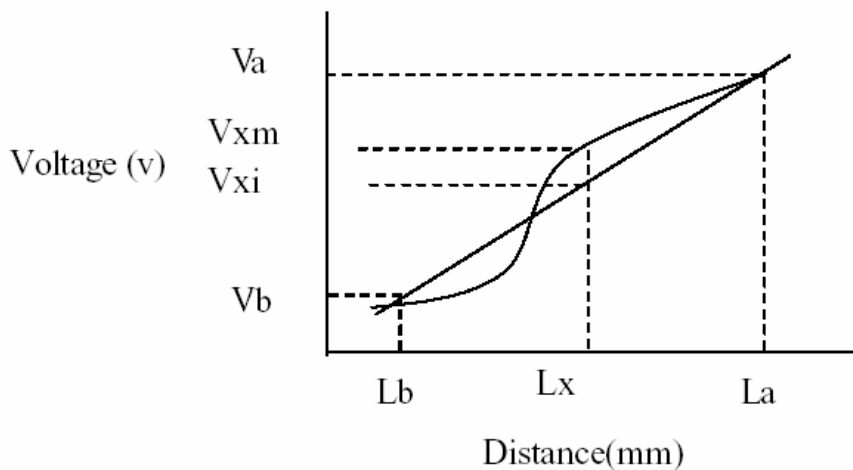
Note 3: Pit 1,000,000 times on the film with a R0.8 silicon rubber.

- Force: 250gf.
- Speed: 2times/sec.

4.3. Linearity Definition

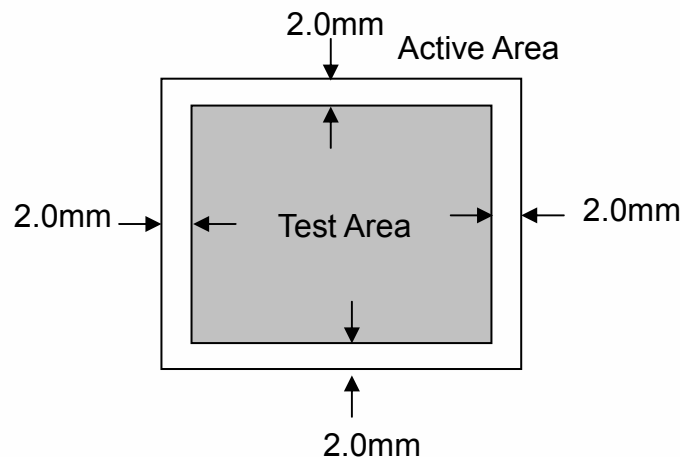


Va: maximum voltage in the active area of touch panel
 Vb: minimum voltage in the active area of touch panel
 X: random measuring point
 Vxm: actual voltage of Lx point
 Vxi: theoretical voltage of Lx point



$$\text{Linearity} = \frac{|Vxi - Vxm|}{(Va - Vb)} * 100\%$$

Note: Test area is as follows and operation force is 150gf.



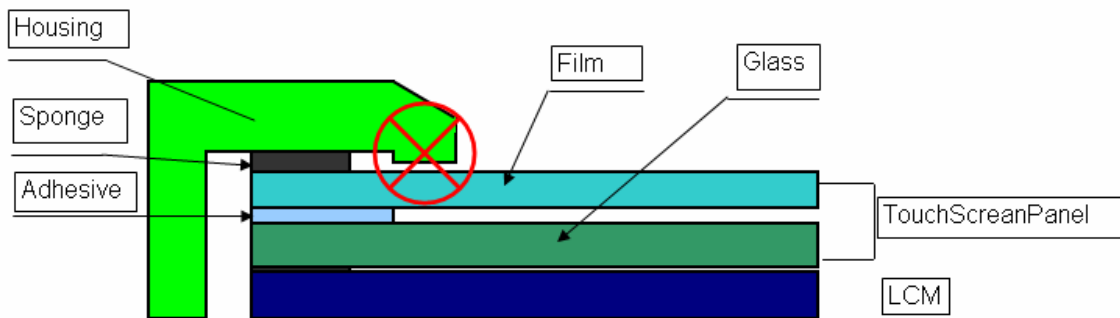
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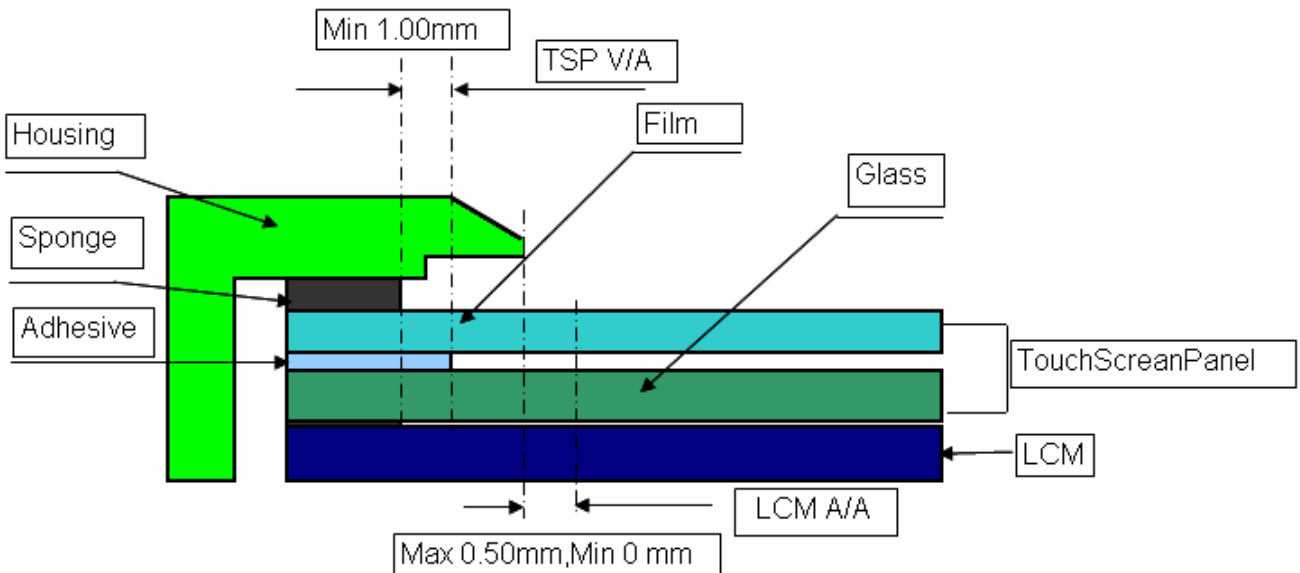
4.4. Housing design guide

Housing design follow as below

- 1) Avoid the design that housing overlap and press on the active area of the LCM
- 2) Give enough gap(over 0.5mm at compressed) between the housing and TSP to protect wrong operating.



- 3) Use a buffer material(Gasket) between the TSP and housing to protect damage and wrong operating
- 4) Avoid the design that buffer material overlap and press on the inside of TSP view area.



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5. Optical Specifications

| Item | Symbol | Condition | Values | | | Unit | Remark |
|---------------------------|------------|---------------------------------|--------|------|------|-------------------|--------------------------------------|
| | | | Min. | Typ. | Max. | | |
| Viewing angle (CR≥ 10) | θ_L | $\Phi=180^\circ$ (9 o'clock) | 60 | 70 | - | degree | Note 1 Note 7 |
| | θ_R | $\Phi=0^\circ$ (3 o'clock) | 60 | 70 | - | | |
| | θ_T | $\Phi=90^\circ$ (12 o'clock) | 40 | 50 | - | | |
| | θ_B | $\Phi=270^\circ$ (6 o'clock) | 60 | 70 | - | | |
| Response time | T_{ON} | Normal $\theta=\Phi=0^\circ$ | - | 10 | 20 | msec | Note 3 |
| | T_{OFF} | | - | 15 | 30 | msec | Note 3 |
| Contrast ratio | CR | | 400 | 500 | - | - | Note 4 |
| Color chromaticity | W_X | | 0.26 | 0.31 | 0.36 | - | Note 2 Note 5 Note 6 Note 7 |
| | W_Y | | 0.28 | 0.33 | 0.38 | - | |
| Luminance | L | | 350 | 400 | - | cd/m ² | Note 6 |
| Luminance uniformity | Y_U | | 70 | 75 | - | % | Note 8 |

Test Conditions:

1. $V_{DD}=3.3V$, $I_L=20mA$ (Backlight current), the ambient temperature is $25^\circ C$.
2. The test systems refer to Note 2.

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Note 1: Definition of viewing angle range

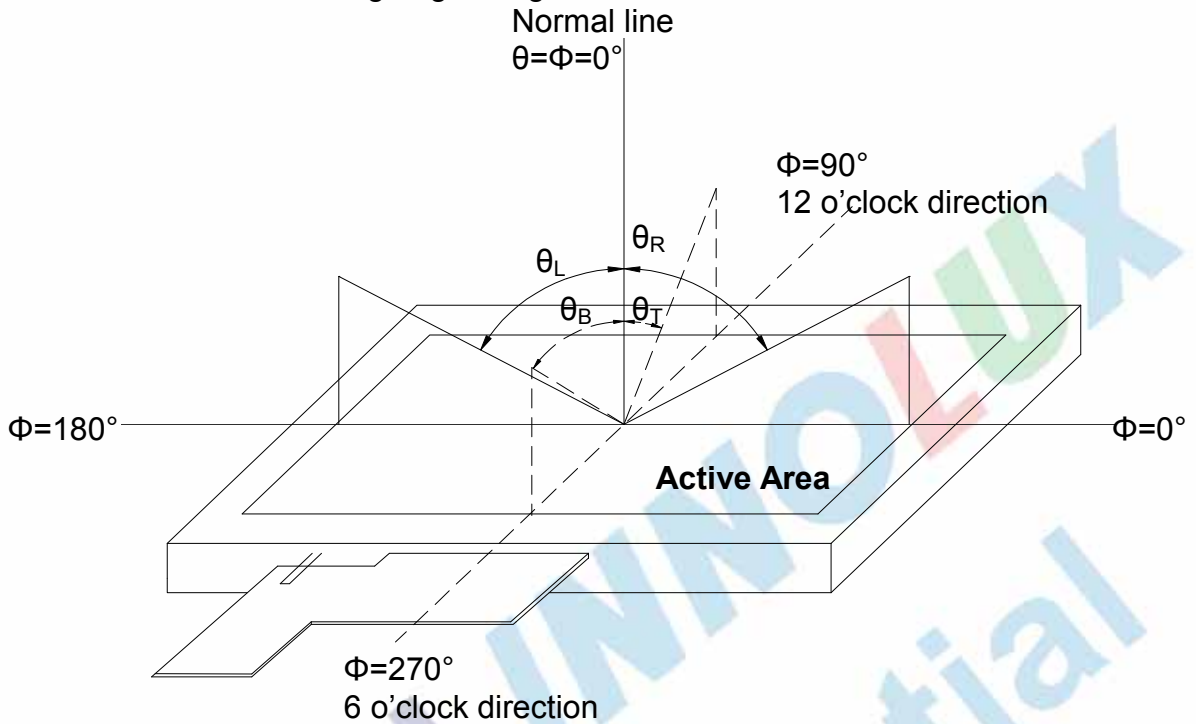


Fig. 4-1 Definition of viewing angle

Note 2: Definition of optical measurement system.

The optical characteristics should be measured in dark room. After 30 minutes operation, the optical properties are measured at the center point of the LCD screen. (Response time is measured by Photo detector TOPCON BM-7, other items are measured by BM-5A/Field of view: 1° /Height: 500mm.)

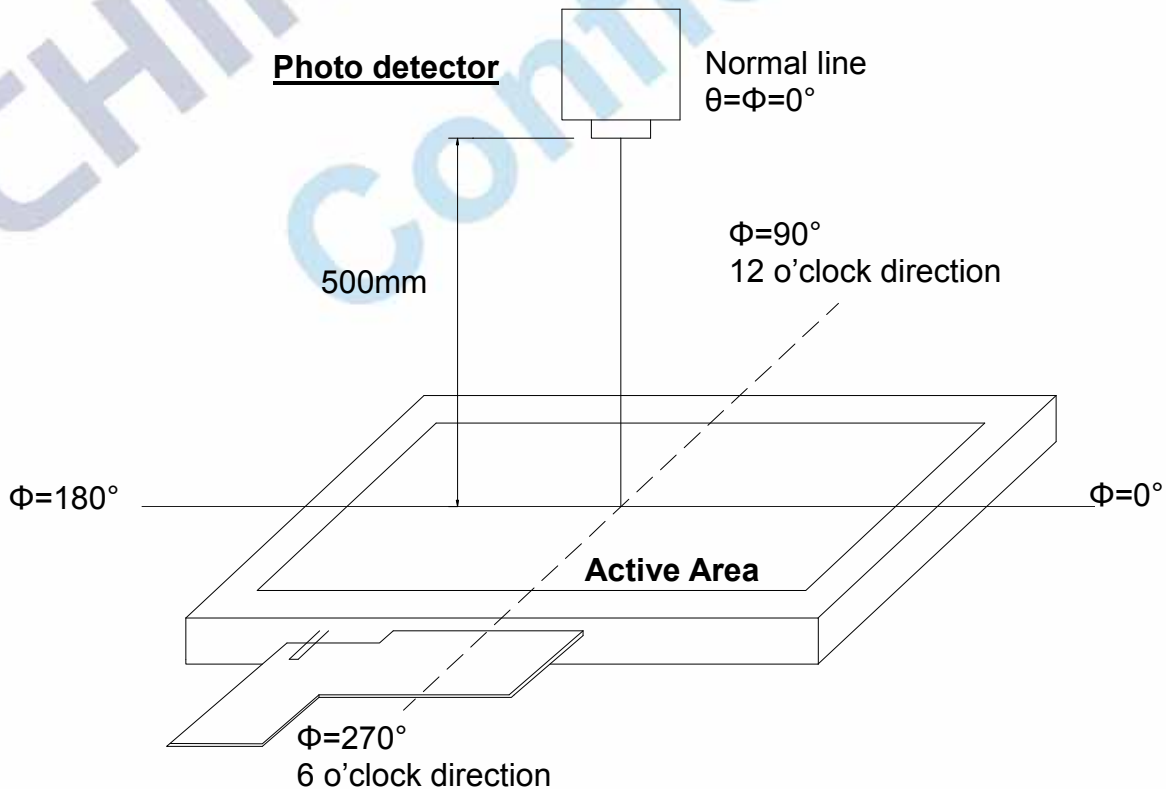


Fig. 4-2 Optical measurement system setup

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Note 3: Definition of Response time

The response time is defined as the LCD optical switching time interval between "White" state and "Black" state. Rise time (T_{ON}) is the time between photo detector output intensity changed from 90% to 10%. And fall time (T_{OFF}) is the time between photo detector output intensity changed from 10% to 90%.

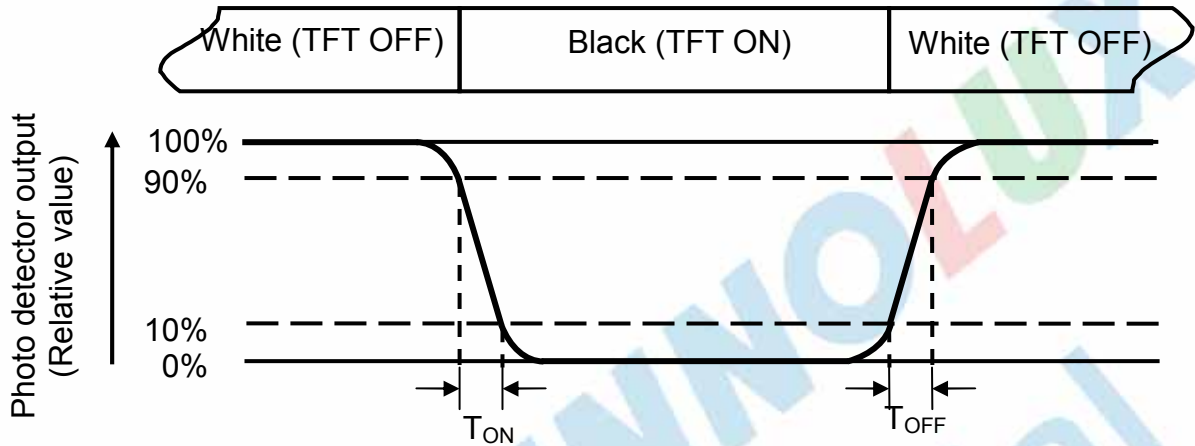


Fig. 4-3 Definition of response time

Note 4: Definition of contrast ratio

$$\text{Contrast ratio (CR)} = \frac{\text{Luminance measured when LCD on the "White" state}}{\text{Luminance measured when LCD on the "Black" state}}$$

Note 5: Definition of color chromaticity (CIE1931)

Color coordinates measured at center point of LCD.

Note 6: All input terminals LCD panel must be ground while measuring the center area of the panel. The LED driving condition is $I_L=20\text{mA}$.

Note 7: The values shall be measured without Touch Screen Panel.

Note 8: Definition of Luminance Uniformity

Active area is divided into 9 measuring areas (Refer to Fig. 4-4).Every measuring point is placed at the center of each measuring area.

$$\text{Luminance Uniformity (Yu)} = \frac{B_{min}}{B_{max}}$$

L-----Active area length W----- Active area width

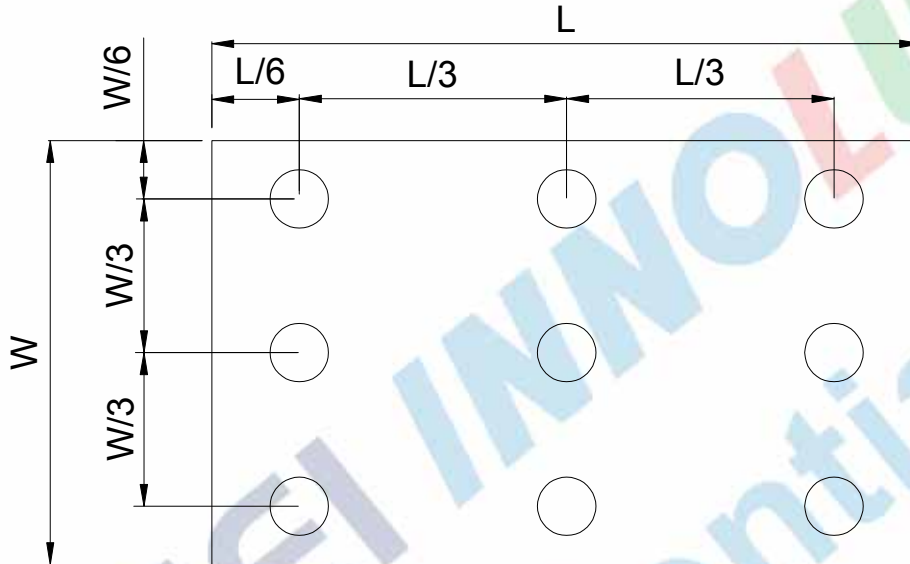


Fig. 4-4 Definition of measuring points

B_{max}: The measured maximum luminance of all measurement position.

B_{min}: The measured minimum luminance of all measurement position.

6. Reliability Test Items

(Note3)

| Item | Test Conditions | Remark |
|--|--|----------------|
| High Temperature Storage | Ta = 80°C 240 hrs | Note 1, Note 4 |
| Low Temperature Storage | Ta = -30°C 240hrs | Note 1, Note 4 |
| High Temperature Operation | Ts = 70°C 240hrs | Note 2, Note 4 |
| Low Temperature Operation | Ta = -20°C 240hrs | Note 1, Note 4 |
| Operate at High Temperature and Humidity | +60°C, 90%RH 240 hrs | Note 5 |
| Thermal Shock | -30°C/30 min ~ +80°C/30 min for a total 100 cycles, Start with cold temperature and end with high temperature | Note 4 |
| Vibration Test | Frequency range: 10~55Hz Stroke: 1.5mm Sweep: 10Hz~55Hz~10Hz 2 hours for each direction of X. Y. Z. (6 hours for total) | |
| Mechanical Shock | 100G 6ms, ±X, ±Y, ±Z 3 times for each direction | |
| Package Vibration Test | Random Vibration : 0.015G*G/Hz from 5-200HZ, -6dB/Octave from 200-500HZ 2 hours for each direction of X. Y. Z. (6 hours for total) | |
| Package Drop Test | Height: 60 cm 1 corner, 3 edges, 6 surfaces | |
| Electro Static Discharge | ± 2KV, Human Body Mode, 100pF/1500Ω | |

Note 1: Ta is the ambient temperature of samples.

Note 2: Ts is the temperature of panel's surface.

Note 3: In the standard condition, there shall be no practical problem that may affect the display function. After the reliability test, the product only guarantees operation, but doesn't guarantee all the cosmetic specification.

Note 4: Before cosmetic and function tests, the product must have enough recovery time, at least 2 hours at room temperature.

Note 5: Before cosmetic and function tests, the product must have enough recovery time, at least 24 hours at room temperature.

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7. General Precautions

7.1. Safety

Liquid crystal is poisonous. Do not put it in your mouth. If liquid crystal touches your skin or clothes, wash it off immediately by using soap and water.

7.2. Handling

1. The LCD panel is plate glass. Do not subject the panel to mechanical shock or to excessive force on its surface.
2. The polarizer attached to the display is easily damaged. Please handle it carefully to avoid scratch or other damages.
3. To avoid contamination on the display surface, do not touch the module surface with bare hands.
4. Keep a space so that the LCD panels do not touch other components.
5. Put cover board such as acrylic board on the surface of LCD panel to protect panel from damages.
6. Transparent electrodes may be disconnected if you use the LCD panel under environmental conditions where the condensation of dew occurs.
7. Do not leave module in direct sunlight to avoid malfunction of the ICs.

7.3. Static Electricity

1. Be sure to ground module before turning on power or operating module.
2. Do not apply voltage which exceeds the absolute maximum rating value.

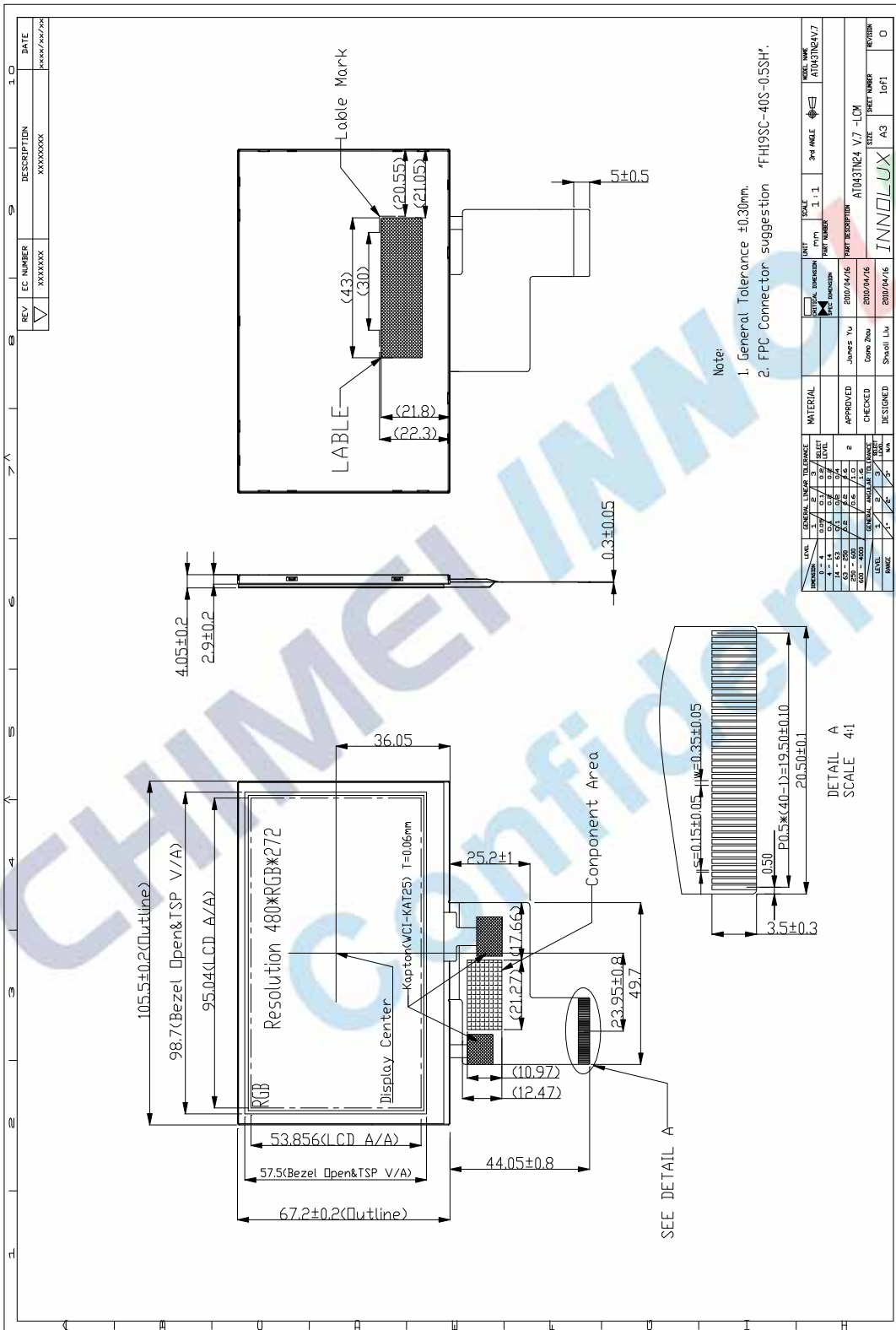
7.4. Storage

1. Store the module in a dark room where must keep at $25\pm 10^{\circ}\text{C}$ and 65%RH or less.
2. Do not store the module in surroundings containing organic solvent or corrosive gas.
3. Store the module in an anti-electrostatic container or bag.

7.5. Cleaning

1. Do not wipe the polarizer with dry cloth. It might cause scratch.
2. Only use a soft sloth with IPA to wipe the polarizer, other chemicals might permanent damage to the polarizer.

8. Mechanical Drawing



Note:
 1. General Tolerance $\pm 0.30\text{mm}$.
 2. FPC Connector suggestion 'FH9SC-40S-05SH'.

| | | | |
|-----|-----------|-------------|------------|
| REV | EC NUMBER | DESCRIPTION | DATE |
| 1 | XXXXXX | XXXXXXXX | XXXX/XX/XX |

| | | | |
|------------|------------|------------|-------------------|
| UNIT | SCALE | 3rd ANGLE | FILE NAME |
| MM | 1:1 | AS | AI04324TT71 |
| DATE | DATE | DATE | DATE |
| 2010/04/16 | 2010/04/16 | 2010/04/16 | 2010/04/16 |
| APPROVED | CHECKED | DESIGNED | REVISION |
| Jones Yu | Shao Li | Shao Li | A104324TT71 - LCM |
| COMP. DRAW | COMP. DRAW | COMP. DRAW | COMP. DRAW |
| 2010/04/16 | 2010/04/16 | 2010/04/16 | 2010/04/16 |
| INNO LUX | INNO LUX | INNO LUX | INNO LUX |
| AS | AS | AS | AS |
| LoFi | LoFi | LoFi | LoFi |
| O | O | O | O |

9. Package Drawing

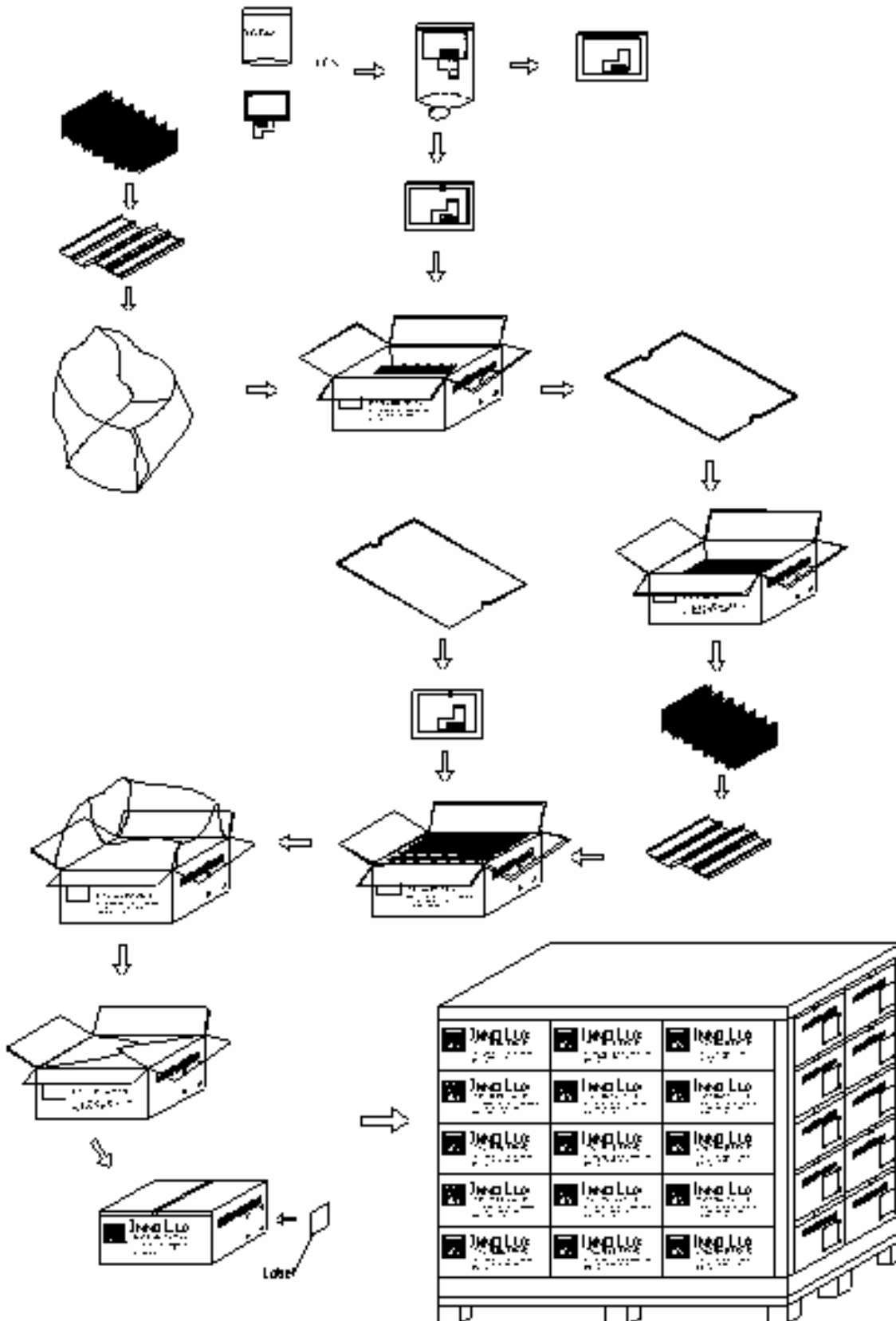
9.1. Packaging Material Table

| No. | Item | Model (Material) | Dimensions (mm) | Unit Weight (kg) | Quantity (pcs) | Remark |
|-----|--------------------|---------------------|---------------------|------------------|----------------|--------|
| 1 | LCM Module | AT043TN24 V.7 | 105.5 × 67.2 × 4.05 | TBD | 160 | |
| 2 | Partition | BC Corrugated paper | 512 × 349 × 106 | 1.102 | 2 | |
| 3 | Corrugated Bar | BC Corrugated paper | 349 × 173 | 0.030 | 8 | |
| 4 | Dust-Proof Bag | PE | 700 × 530 | 0.060 | 1 | |
| 5 | Corrugated Board-1 | BC Corrugated Paper | 510 × 343 | 0.130 | 2 | |
| 6 | Corrugated Board-2 | BC Corrugated Paper | 1152 × 512 | 0.260 | 1 | |
| 7 | A/S Bag | PE | 132 × 117 | 0.002 | 160 | |
| 8 | Carton | Corrugated paper | 530 × 355 × 255 | 1.100 | 1 | |
| 9 | Total weight | TBD | | | | |

9.2. Packaging Quantity

| |
|--|
| (1) LCM quantity per Partition: 2Rows x 40quantity per Row = 80 pcs |
| (2) Total LCM quantity in Carton: 2 layer x 80 pcs per Partition = 160 pcs |

9.3. Packaging Drawing



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