



RVT43HLTNWC00-B

IPS RGB 4.3" LCD TFT DATASHEET

Rev.1.1

2021-07-27

| ITEM | CONTENTS | UNIT |
|--------------------------------|---------------------------------------|-------------------|
| LCD Type | TFT/Transmissive/Normally Black/IPS | / |
| Size | 4.3 | Inch |
| Viewing Direction | Free | / |
| Outside Dimensions (W x H x D) | 120.38 x 79.20 x 4.67 | mm |
| Active Area (W x H) | 95.04 x 53.86 | mm |
| Pixel Pitch (W x H) | 0.198 x 0.198 | mm |
| Resolution | 480 x 272 (RGB) | / |
| Brightness | 850 | cd/m ² |
| Color Depth | 16.7 M | / |
| Pixel Arrangement | RGB Vertical Stripe | / |
| Driver IC of Board | SC7283 | / |
| Interface | RGB | / |
| With/Without Touch | With Projected Capacitive Touch Panel | / |
| CTP Driver | ILI2132A | / |
| Touch Interface | USB /I2C/ Optional UART | / |
| Bonding Technology | Optical Bonding | / |
| Weight | 82 | g |

Note 1: RoHS3 compliant**Note 2:** LCM weight tolerance: $\pm 5\%$.



1. REVISION RECORD

| REV NO. | REV DATE | CONTENTS | REMARKS |
|---------|------------|-----------------------|---------|
| 1.0 | 2020-08-15 | Initial Release | |
| 1.1 | 2021-07-27 | Updating new template | |



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3. MODULE CLASSIFICATION INFORMATION

| RV | T | 43 | H | L | T | N | W | C | 00 | B |
|----|----|----|----|----|----|----|----|----|-----|-----|
| 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. | 11. |

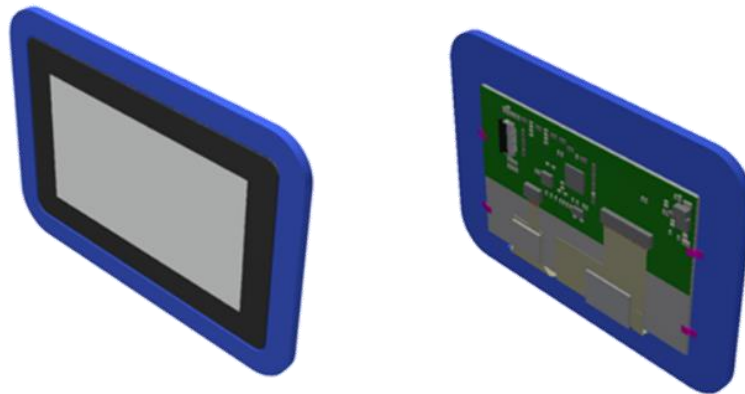
| NO. | PARAMETER | SYMBOL |
|-----|--------------------|----------------------------------|
| 1. | BRAND | RV – Riverdi |
| 2. | PRODUCT TYPE | T – TFT Standard |
| 3. | DISPLAY SIZE | 43 – 4.3" |
| 4. | MODEL SERIAL NO. | H – High Brightness, IPS |
| 5. | RESOLUTION | L – 480 x 272 px |
| 6. | INTERFACE | T – TFT LCD, RGB |
| 7. | FRAME | N – Without Mounting Metal Frame |
| 8. | BACKLIGHT TYPE | W – LED White |
| 9. | TOUCH PANEL | C – With Capacitive Touch Panel |
| 10. | VERSION | 00 – (00-99) |
| 11. | BONDING TECHNOLOGY | B – Optical Bonding |

4. uxTouch ASSEMBLY

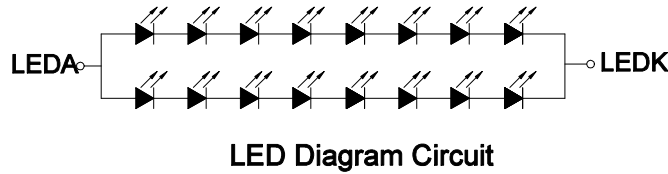
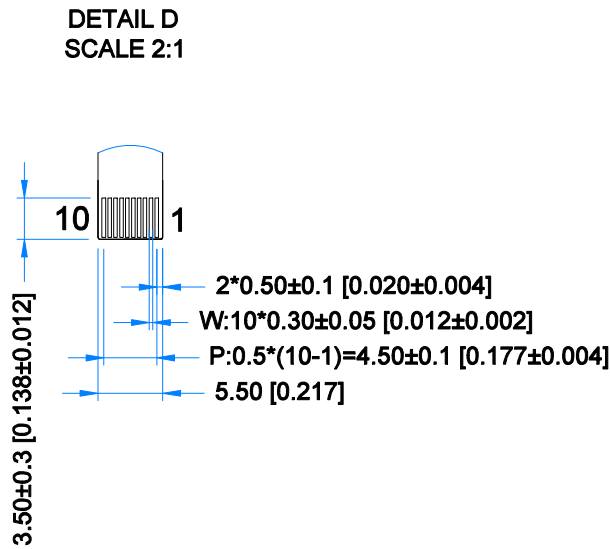
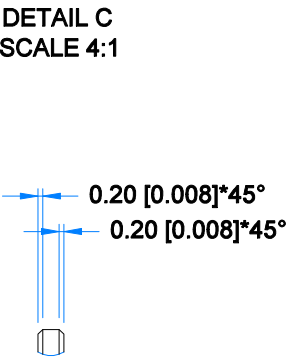
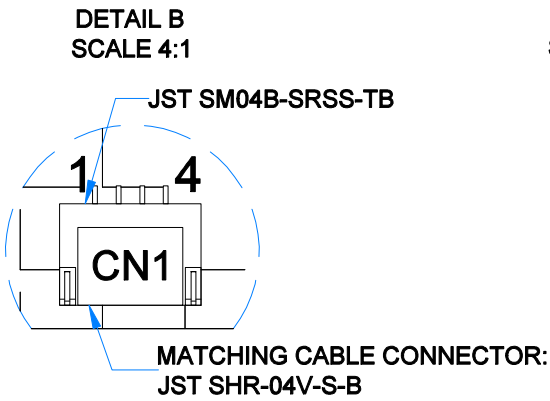
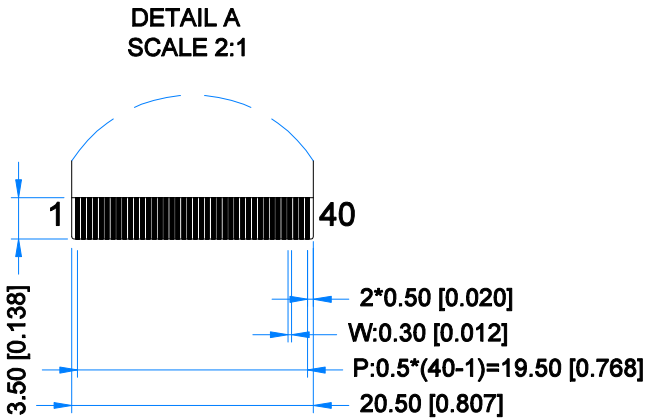
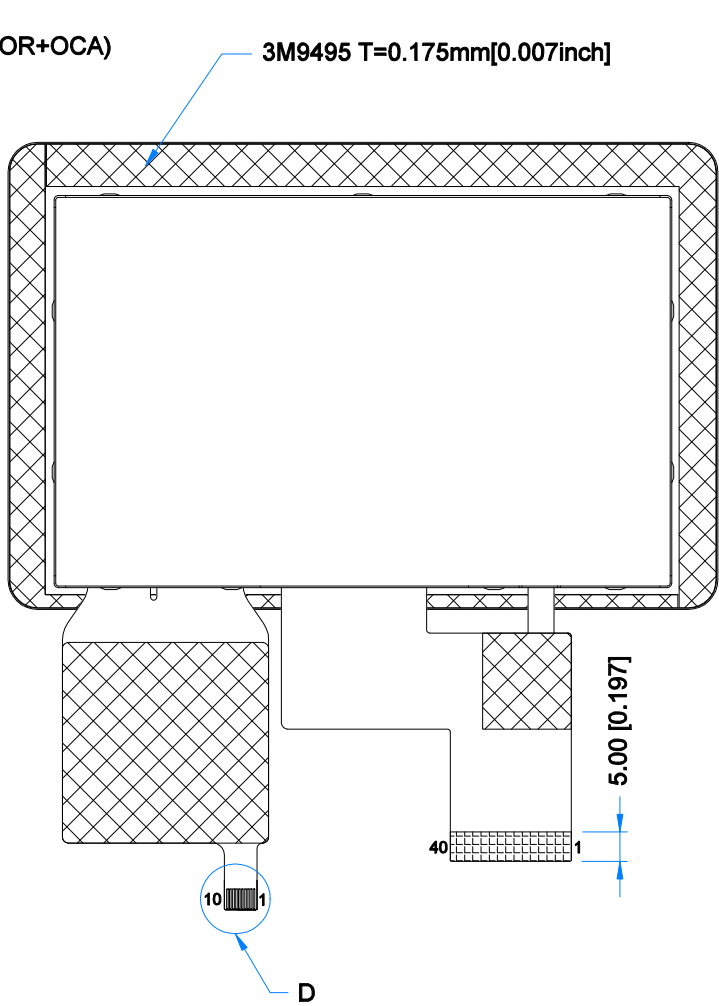
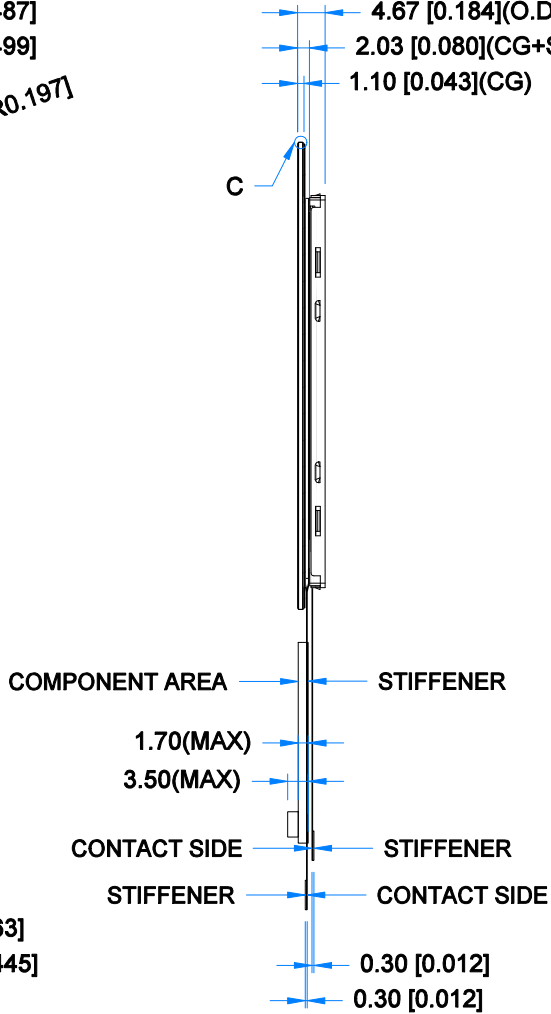
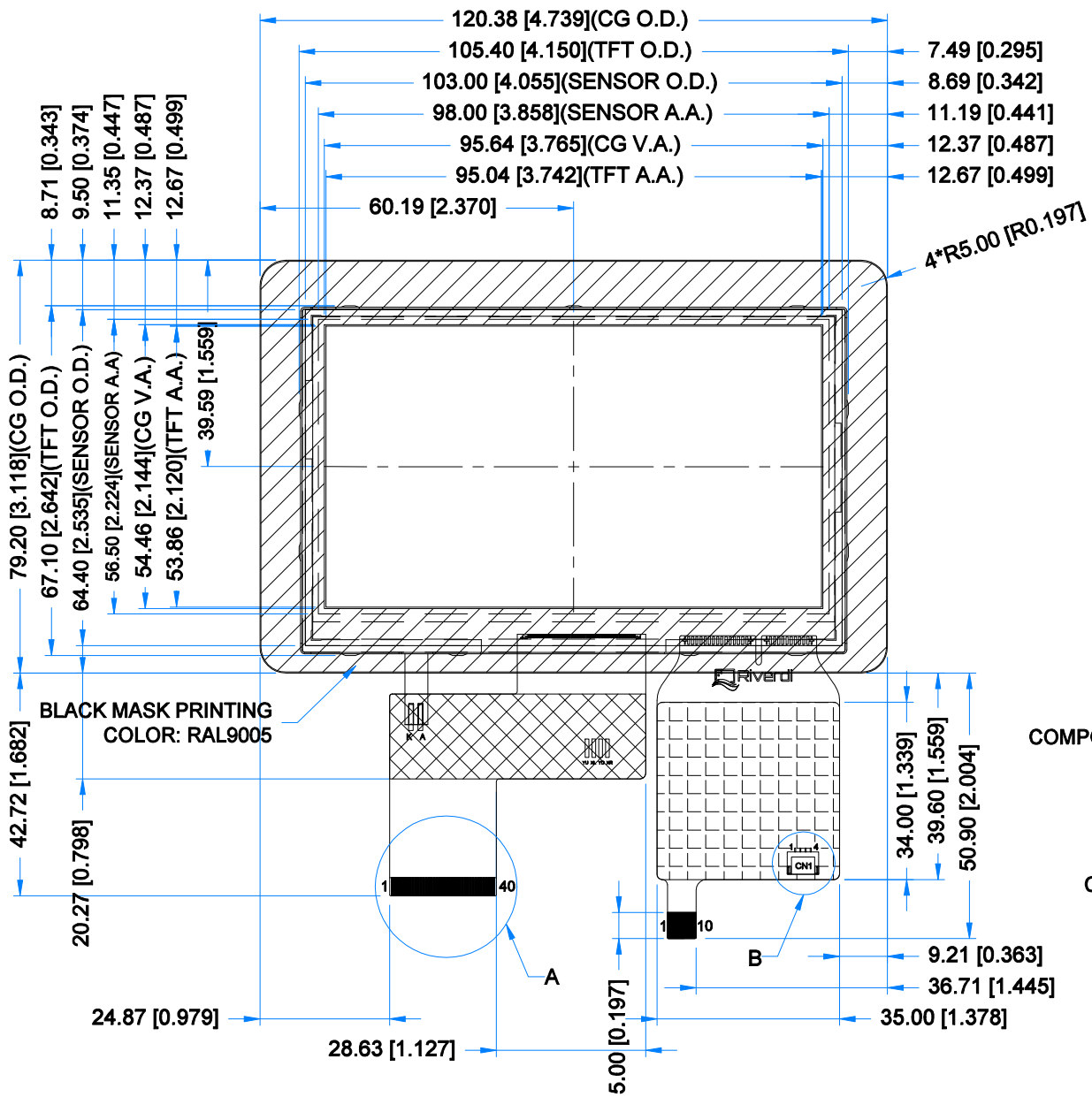
uxTouch are LCD TFT displays with specially designed projected capacitive touch panels. uxTouch display can be mounted without any additional holes in the housing. Our standard uxTouch displays include double-sided adhesive tape (DST) to stick TFT easily to the housing.

uxTouch models with double-side adhesive tape can be mounted by fastening the glass to the housing.

Figure 1. General view of the module



| Revision: | Changes: | Date: |
|-----------|---------------------|------------|
| 1.0 | Initial Case | 2020.08.11 |
| 1.1 | Dimensions Overhaul | 2021.07.02 |



TFT NOTES:

1. LCD TYPE: TRANSMISSIVE, NORMALLY BLACK, IPS
2. RESOLUTION: 480x272
3. VIEWING ANGLE: FREE
4. INTERFACE: RGB
5. LCD DRIVER: SC7283
6. LOGIC VOLTAGE: 3.3V
7. BACKLIGHT: 16 LEDs, $V_f=25.6V(TYP)$, $I_f=40mA(TYP)$

TP NOTES:

1. TP STRUCTURE: G+G
2. CG THICKNESS: 1.10mm[0.043inch]
3. DRIVER IC: ILI2132A
4. INTERFACE: USB; I2C; OPTIONAL UART
5. OPERATING VOLTAGE: 3.3V(CTP I2C); 5.0V(CTP USB);

GENERAL NOTES:

1. MODULE SURFACE LUMINANCE: 850 cd/m²
2. OPERATING TEMPERATURE: -20°C ~ 70°C
3. STORAGE TEMPERATURE: -30°C ~ 80°C
4. WITHOUT INDIVIDUAL TOLERANCE: ±0.3mm[0.012inch]
5. RoHS COMPLIANT

| | | |
|---------------------|------------|-----------|
| PN: RVT43HLTNWC00-B | | |
| SN: | | |
| DRAWN: M.Natywa | 2021.07.02 | 1:1.28 |
| CHECKED: K.Bodacka | 2021.07.06 | [mm] |
| APPR: | ISO A3 | P. 1 of 1 |



6. ABSOLUTE MAXIMUM RATINGS

| PARAMETER | SYMBOL | MIN | MAX | UNIT | NOTE |
|-------------------------------|----------|------|----------------|------|--------------|
| Power for Circuit Driving | V_{DD} | -0.3 | 4.6 | V | NOTE 1 |
| Power for Circuit Logic | V_t | -0.3 | $V_{DD} + 0.3$ | V | NOTE 1 |
| Operating Ambient temperature | T_{OP} | -20 | 70 | °C | At 25±5°C |
| Storage Temperature | T_{ST} | -30 | 80 | °C | |
| Operating Ambient Humidity | H_{OP} | 10 | - | % RH | |
| Storage Ambient Humidity | H_{ST} | 10 | - | % RH | |

Note 1. Exceeding the maximum values may cause improper operation or permanent damage to the unit.

7. ELECTRICAL CHARACTERISTICS

| PARAMETER | | SYMBOL | MIN | TYP | MAX | UNIT |
|---------------------------------|--------------|--------|-------------|-----|-------------|------|
| Power Supply for Analog Circuit | | VDD | 3.0 | 3.3 | 3.6 | V |
| Logic Input Voltage | Low Voltage | VIL | 0 | - | $0.3V_{DD}$ | |
| | High Voltage | VIH | $0.7V_{DD}$ | - | V_{DD} | |
| Logic Output Voltage | Low Voltage | VOL | 0 | - | $0.2V_{DD}$ | |
| | High Voltage | VOH | $0.8V_{DD}$ | - | - | |
| Power Consumption | Black Mode | Pb | - | 20 | 25 | mW |
| | Standby Mode | Pw | - | 40 | 50 | mW |

8. BACKLIGHT ELECTRICAL CHARACTERISTICS

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT | NOTE |
|-----------------------------|----------|------|--------|------|-------|-----------|
| Backlight Driving Voltage | V_F | 24.4 | 25.6 | 27.2 | V | Notes 1,2 |
| Backlight Driving Current | I_F | - | 40 | - | mA | |
| Backlight Power Consumption | W_{BL} | - | 1024 | - | mW | |
| Backlight Lifetime | - | - | 50,000 | - | hours | Note 3 |

Note 1. Unless specified, the ambient temperature $T_a=25^{\circ}\text{C}$.

Note 2. The recommended operating conditions refer to a range in which operation of this product is guaranteed. Should this range be exceeded, the operation cannot be guaranteed even if the values may be without the absolute maximum ratings.

Note 3. Operating life means the period in which the LED brightness goes down to 50% of the initial brightness. Typical operating lifetime is the estimated parameter.



9. ELECTRO-OPTICAL CHARACTERISTICS

Optical characteristics are determined after the unit has been 'ON' and stable for approximately 30 minutes in a dark environment at 25 °C. The values specified are at an approximate distance 500mm from the LCD surface at a viewing angle of Φ and θ equal to 0°.

| ITEM | SYMBOL | CONDITION | MIN | TYP | MAX | UNIT | RMK | NOTE |
|-------------------------|----------------|--|-------|-------|-------|-------------------|--------|------|
| Response Time | Tr+Tf | $\theta=0^\circ$ $\phi=0^\circ$ Ta=25 °C | - | 30 | 40 | ms | FIG 2. | 4 |
| Contrast Ratio | Cr | | 640 | 800 | - | --- | FIG 3. | 1 |
| Luminance Uniformity | δ WHITE | | - | 75 | - | % | FIG 3. | 3 |
| Surface Luminance | Lv | | - | 850 | - | cd/m ² | FIG 3. | 2 |
| Viewing Angle Range | θ | $\phi = 90^\circ$ | 70 | 80 | - | deg | FIG 4. | 6 |
| | | $\phi = 270^\circ$ | 70 | 80 | - | deg | FIG 4. | |
| | | $\phi = 0^\circ$ | 70 | 80 | - | deg | FIG 4. | |
| | | $\phi = 180^\circ$ | 70 | 80 | - | deg | FIG 4. | |
| CIE (x, y) Chromaticity | Rx | $\theta=0^\circ$ $\phi=0^\circ$ Ta=25 °C | 0.579 | 0.619 | 0.659 | - | FIG 3. | 5 |
| | Ry | | 0.290 | 0.330 | 0.370 | - | | |
| | Gx | | 0.346 | 0.386 | 0.426 | - | | |
| | Gy | | 0.539 | 0.579 | 0.619 | - | | |
| | Bx | | 0.070 | 0.110 | 0.150 | - | | |
| | By | | 0.091 | 0.131 | 0.171 | - | | |
| | Wx | | 0.280 | 0.320 | 0.360 | - | | |
| | Wy | | 0.305 | 0.345 | 0.384 | - | | |

Note 1. Contrast Ratio (CR) is defined mathematically as below, for more information see Figure 3.

$$\text{Contrast Ratio} = \frac{\text{Average Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}{\text{Average Surface Luminance with all black pixels (P1, P2, P3, P4, P5)}}$$

Note 2. Surface luminance is the LCD surface from the surface with all pixels displaying white. For more information see Figure 3.

$$Lv = \text{Average Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}$$

Note 3. The uniformity in surface luminance δ WHITE is determined by measuring luminance at each test position 1 through 5, and then dividing the minimum luminance of 5 points luminance by maximum luminance of 5 points luminance. For more information see Figure 3.

$$\delta \text{ WHITE} = \frac{\text{Minimum Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}{\text{Maximum Surface Luminance with all white pixels (P1, P2, P3, P4, P5)}}$$

Note 4. Response time is the time required for the display to transition from white to black (Rise Time, Tr) and from black to white (Decay Time, Tf). For additional information see Figure 2. The test equipment is Autronic-Melchers's ConoScope series.

Note 5. CIE (x, y) chromaticity, the x, y value is determined by measuring luminance at each test position 1 through 5, and then make average value.

Note 6. Viewing angle is the angle at which the contrast ratio is greater than 2. For TFT module the contrast ratio is greater than 10. The angles are determined for the horizontal or x axis and the vertical or y axis with respect to the z axis which is normal to LCD surface. For more information see Figure 4.

Note 7. For viewing angle and response time testing, the testing data is based on Autronic-Melchers's ConoScope series. Instruments for Contrast Ratio, Surface Luminance, Luminance Uniformity, CIE the test data is based on TOPCON's BM-5 photo detector.

Figure 2. The definition of response time

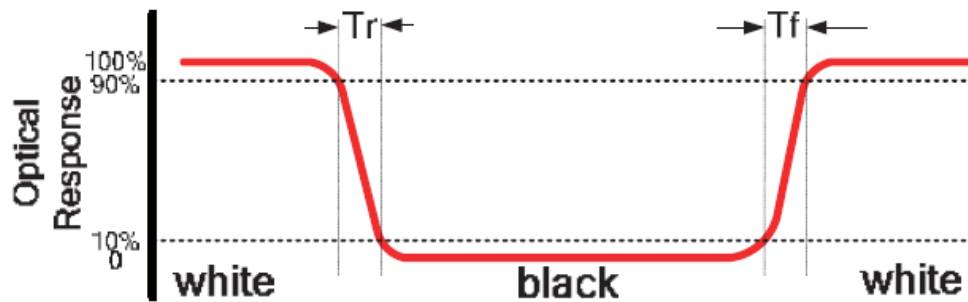


Figure 3. Measuring method for Contrast ratio, surface luminance, Luminance uniformity, CIE (x, y) chromaticity

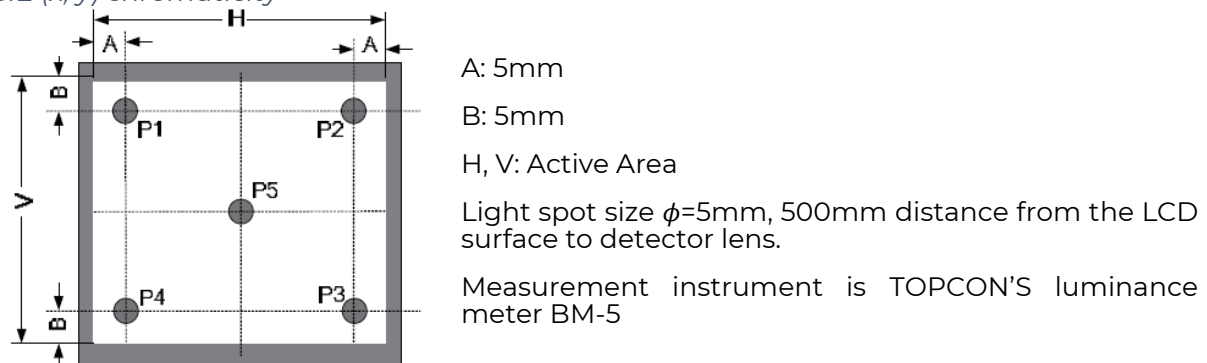
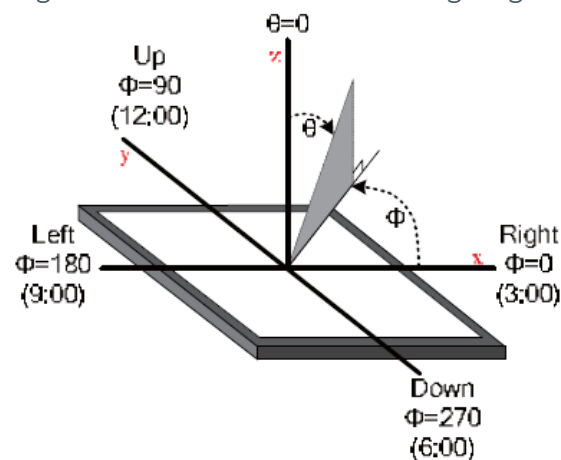
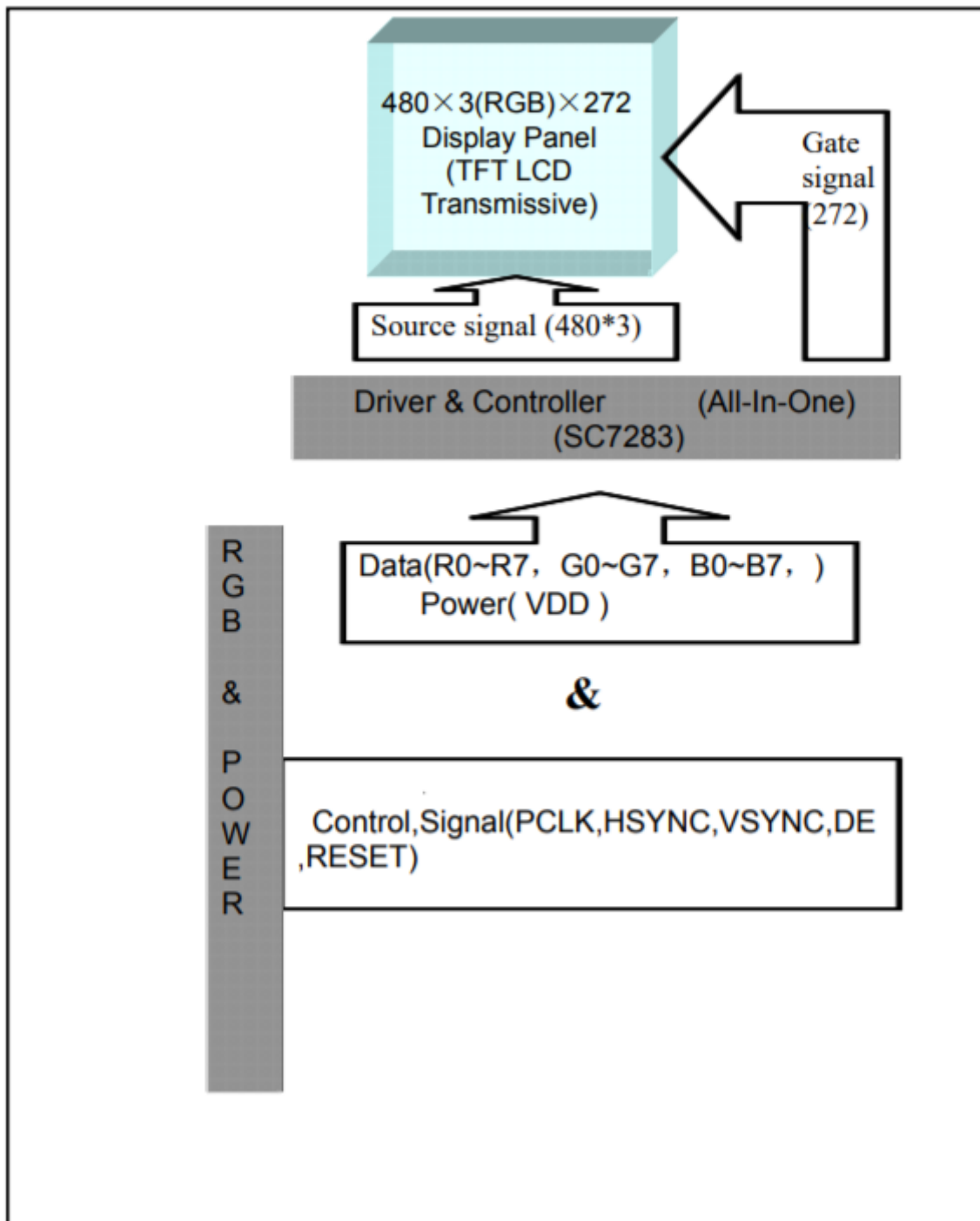


Figure 4. The definition of viewing angle



10. BLOCK DIAGRAM



11. INTERFACES DESCRIPTION

11.1 TFT assignment

| PIN NO. | SYMBOL | DESCRIPTION |
|---------|--------|---|
| 1 | VLED- | Backlight Power Input PIN Cathode |
| 2 | VLED+ | Backlight Power Input PIN Anode |
| 3 | GND | Ground |
| 4 | VDD | Power Supply Voltage |
| 5-12 | R0-R7 | Red Data |
| 13-20 | G0-G7 | Green Data |
| 21-28 | B0-B7 | Blue Data |
| 29 | GND | Ground |
| 30 | DCLK | Data Clock Signal |
| 31 | DISP | Standby Mode DISP="1", Normal Operation DISP="0", Standby Mode. |
| 32 | HSYNC | Horizontal Synchronized Signal |
| 33 | VSYNC | Vertical Synchronized Signal |
| 34 | DE | Data Input Enable |
| 35 | NC | Not Connect |
| 36 | GND | Ground |
| 37 | NC | No Connection |
| 38 | NC | No Connection |
| 39 | NC | No Connection |
| 40 | NC | No Connection |

11.2 Touch panel assignment

| PIN NO. | SYMBOL | DESCRIPTION | NOTE |
|---------|---------|--|--------|
| 1 | USB_GND | USB_Ground | |
| 2 | USB_VDD | USB Power for CTP, 5.0V | |
| 3 | USB_D- | USB _Data Signal - | |
| 4 | USB_D+ | USB _Data Signal + | |
| 5 | I2C_GND | I2C _Ground | |
| 6 | I2C_VDD | I2C _Power for CTP, 3.3 V | |
| 7 | I2C_RST | I2C _Reset Pin, Active low | Note 1 |
| 8 | I2C_SCL | I2C _Clock Input | |
| 9 | I2C_INT | I2C _Interrupt Signal from CTP, Active low | |
| 10 | I2C_SDA | I2C _Data Signal | |

Note 1. External pull-up resistors are required.

11.3 CON1 assignment

| PIN NO. | SYMBOL | DESCRIPTION |
|---------|---------|----------------------------|
| 1 | USB_VDD | USB_Power for CTP, DC 5.0V |
| 2 | USB_D- | USB _Data Signal - |
| 3 | USB_D+ | USB _Data Signal + |
| 4 | USB_GND | USB_Ground |

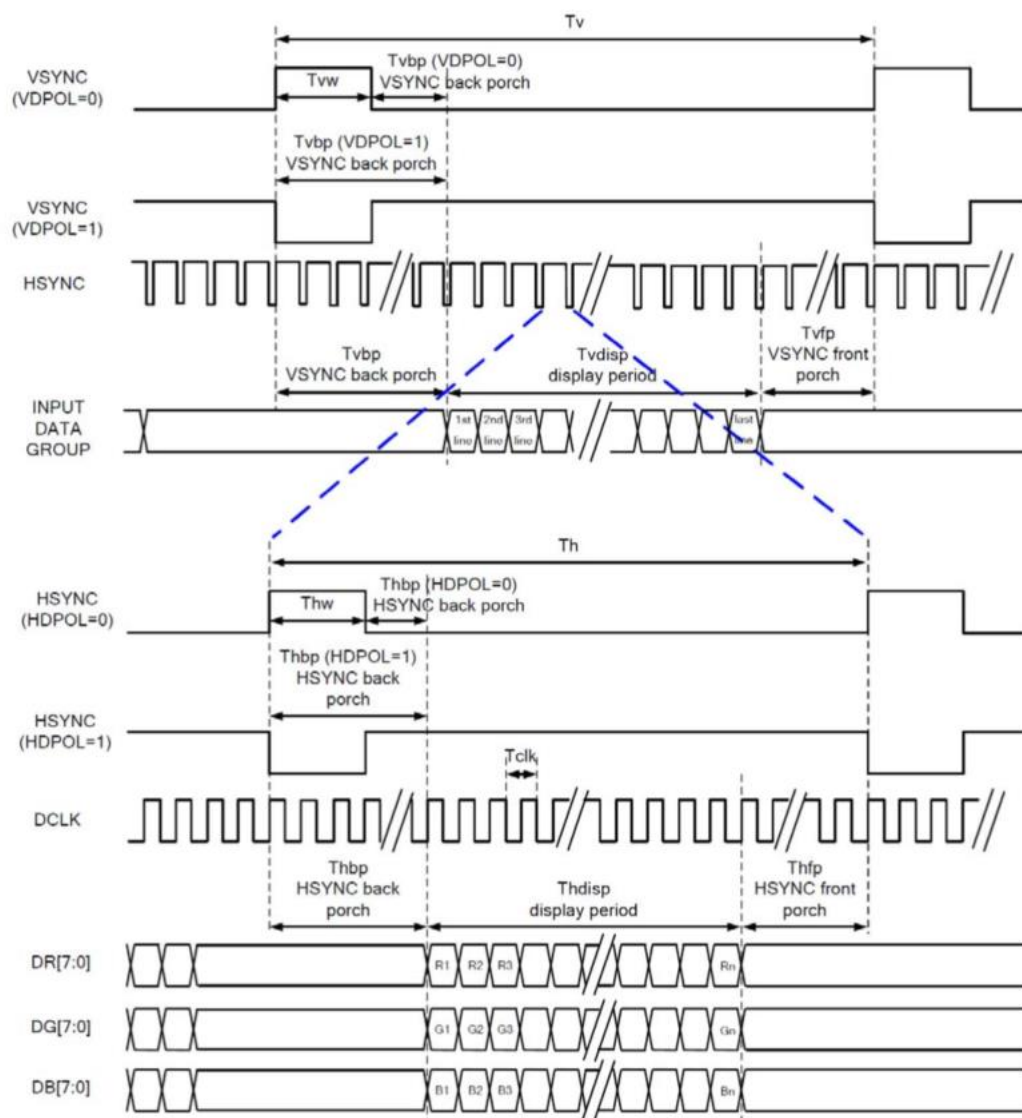
12. TIMING CHARACTERISTICS

| RGB MODE SELECTION | DCLK | HSYNC | VSYNC | DE |
|--------------------|-------|-------|-------|-------|
| SYNC-DE Mode | Input | Input | Input | Input |
| SYNC Mode | Input | Input | Input | GND |
| DE Mode | Input | GND | GND | Input |

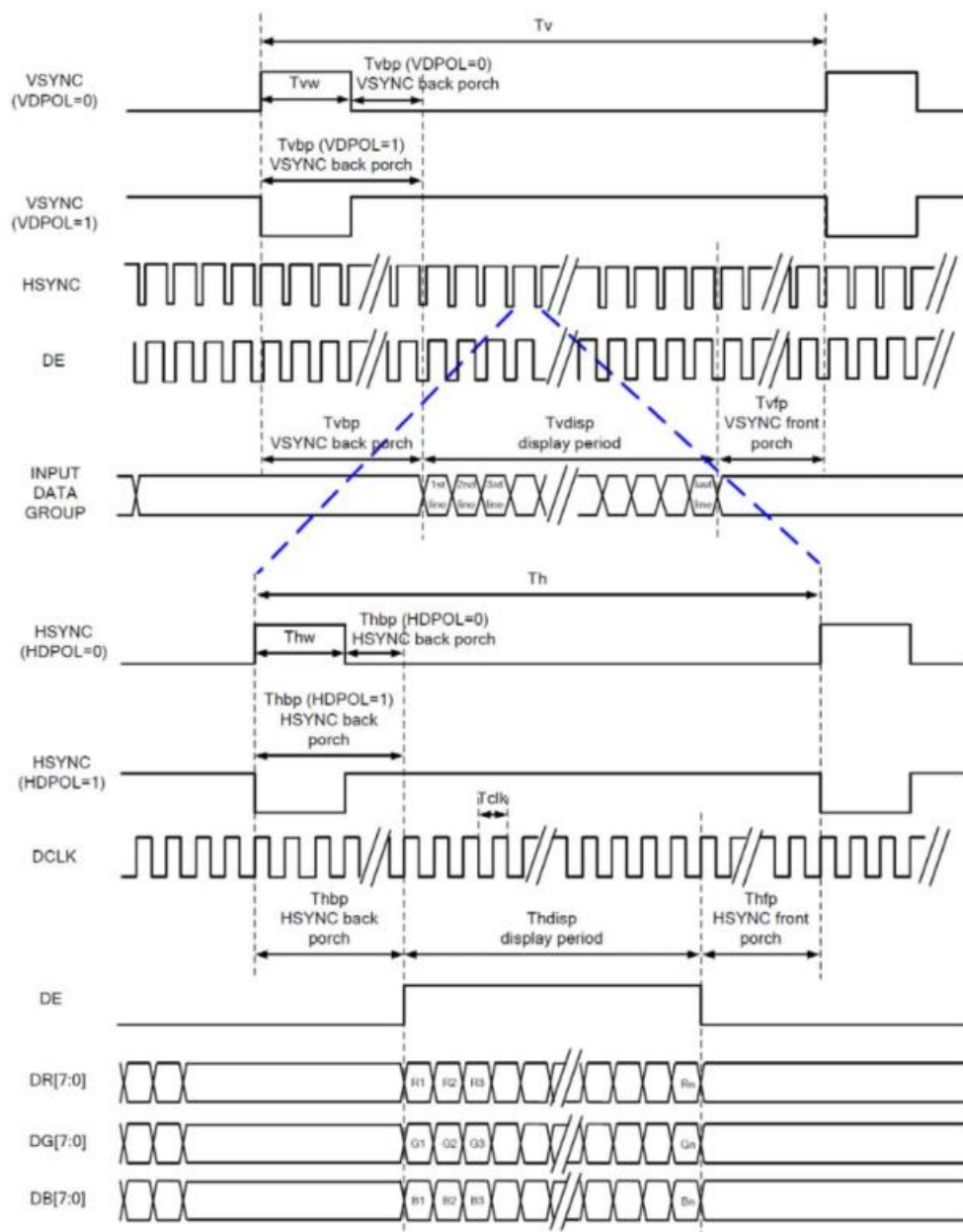
Note. "Input" means these signals are driven by host side.

12.1 Timing diagram and input setup timing setting

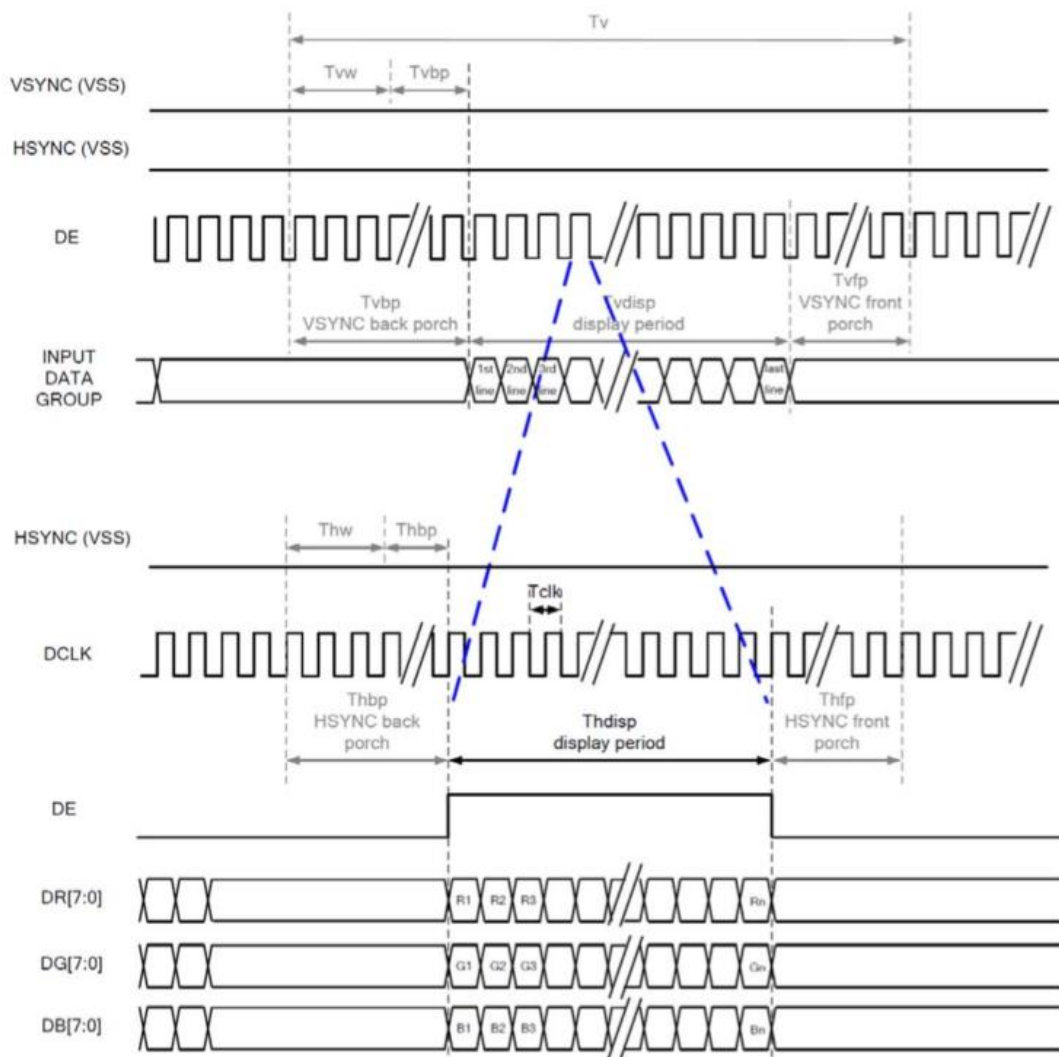
12.1.1 SYNC mode timing diagram



12.1.2 SYNC-DE mode timing diagram



12.1.3 DE mode timing diagram



12.2 Parallel 24-bit RGB input timing table

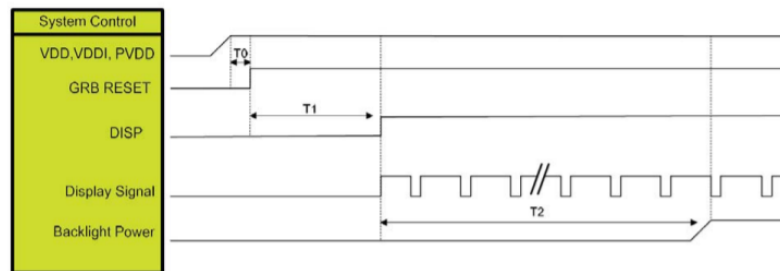
Parallel 24-bit RGB input Timing (PVDD=VDD=VDDI=3.3V, AGND=0V, Ta=25 °C)

| PARAMETER | | SYMBOL | MIN | TYP | MAX | UNIT | NOTE |
|----------------|----------------|--------|-----|-----|-----|-----------|-----------------------|
| DCLK Frequency | | Fclk | 8 | 9 | 12 | MHz | |
| DCLK Period | | Tclk | 83 | 111 | 125 | ns | |
| HSYNC | Period Time | Th | 485 | 531 | 598 | DCLK | |
| | Display Period | Thdisp | 480 | | | | |
| | Back Porch | Thbp | 3 | 43 | 43 | | By H_BLANKING setting |
| | Front Porch | Thfp | 2 | 8 | 75 | | |
| | Pluse Width | Thw | 2 | 4 | 43 | | |
| VSYNC | Period Time | Tv | 276 | 292 | 321 | HSYN C | |
| | Display Period | Tvdisp | 272 | | | | |
| | Back Porch | Tvbp | 2 | 12 | 12 | | By V_BLANKING setting |
| | Front Porch | Tvfp | 2 | 8 | 37 | | |
| | Pluse Width | Tww | 2 | 4 | 12 | | |

Note. It's necessary to keep Tvbp=12 and Thbp=43 in sync mode. DE mode is unnecessary to keep it.

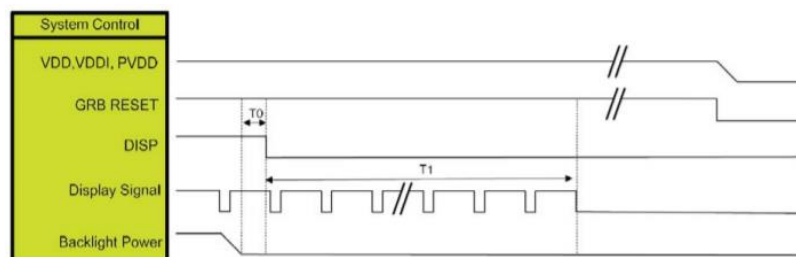
12.3 Power ON/OFF sequence

12.3.1 Power on sequence



| SYMBOL | DESCRIPTION | MIN. TIME | UNIT |
|--------|---|-----------|------|
| T0 | System power stability to GRB RESET signal | 0 | ms |
| T1 | GRB RESET=" High" to DISP="High " | 10 | |
| T2 | Display Signal output to Backlight Power on | 250 | |

12.3.2 Power off sequence



| SYMBOL | DESCRIPTION | MIN. TIME | UNIT |
|--------|--|-----------|------|
| T0 | Backlight Power off to DISP=" Low" | 5 | ms |
| T1 | DISP =" Low" to IC internal voltage discharge complete | 80 | ms |

13. CAPACITIVE TOUCH SCREEN PANEL SPECIFICATIONS

13.1 Mechanical characteristics

| DESCRIPTION | SPECIFICATION | REMARK |
|--------------------------|----------------------|---------|
| Touch Panel Size | 4.3 inch | uxTouch |
| Outline Dimension of CTP | 120.38 mm x 79.20 mm | |
| Product Thickness | 2.02 mm | |
| Glass Thickness | 1.1 mm | |
| CTP View Area | 95.64 mm x 54.46 mm | |
| Sensor Active Area | 98.00 mm x 56.50 mm | |
| Structure type | Glass + Glass | |
| Surface Hardness | 7H | |

13.2 Electrical characteristics

| DESCRIPTION | SPECIFICATION | |
|-------------------------|---------------|-------|
| Power Consumption (IDD) | Active Mode | 90 mA |
| | Sleep Mode | 10 mA |
| Linearity | +/- 1.5mm | |
| Controller | ILI2132A | |
| Resolution | 480 x 272 | |

14. INSPECTION

Standard acceptance/rejection criteria for TFT module

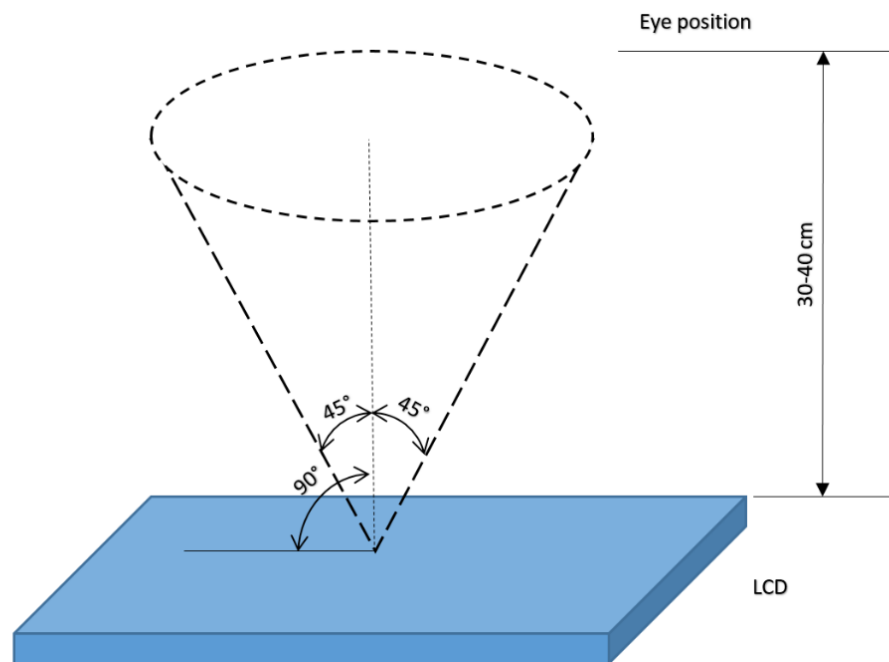
14.1 Inspection condition

Ambient conditions:

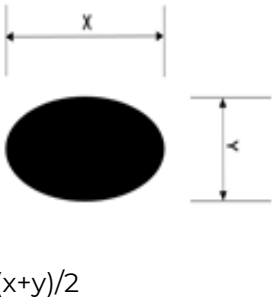
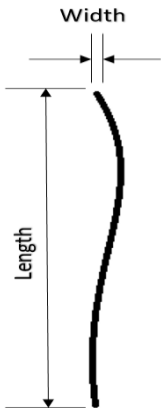
- Temperature: $25 \pm 2^{\circ}\text{C}$
- Humidity: $(60 \pm 10) \% \text{RH}$
- Illumination: Single fluorescent lamp non-directive (300 to 700 lux)

Viewing distance: $35 \pm 5\text{cm}$ between inspector bare eye and LCD.

Viewing Angle: U/D: $45^{\circ}/45^{\circ}$, L/R: $45^{\circ}/45^{\circ}$



14.2 Inspection standard

| ITEM | | CRITERION | | |
|--|--|----------------------|-----------------|---------------|
| Black spots, white spots, light leakage, Foreign Particle (round Type) |  D=(x+y)/2 Spots density: 10 mm | 3.5" ≤ Size ≤ 5" | | |
| | | Average Diameter | | Qualified Qty |
| | | D ≤ 0.15 mm | | Ignored |
| | | 0.15 mm < D ≤ 0.3 mm | | N≤3 |
| | | 0.3 mm < D | | Not allowed |
| LCD black spots, white spots, light leakage (line Type) |  Spots density: 10 mm | 3.5" ≤ Size≤ 5" | | |
| | | Length | Width | Qualified Qty |
| | | - | W ≤ 0.03 | Ignored |
| | | L ≤ 3.0 | 0.03 < W ≤ 0.05 | 2 |
| | | L ≤ 3.0 | 0.05 < W ≤ 0.1 | 1 |
| | | 3.0 < L | 0.1 < W | Not allowed |
| Bright/Dark Dots | 3.5" ≤ Size ≤ 5" | | | |
| | Item | | Qualified Qty | |
| | Bright dots | | N ≤ 1 | |
| | Dark dots | | N ≤ 2 | |
| | Total Bright and Dark Dots | | N ≤ 3 | |
| Clear spots | Size < 5" | | | |
| | Average Diameter | | Qualified Qty | |
| | D < 0.2 mm | | Ignored | |
| | 0.2 mm < D < 0.3 mm | | 3 | |
| | 0.3 mm < D < 0.5 mm | | 2 | |
| | 0.5 mm < D | | 0 | |
| | Spots density: 10 mm | | | |
| Polarizer bubbles | 3.5" ≤ Size ≤ 5" | | | |
| | Average Diameter | | Qualified Qty | |
| | D ≤ 0.2 mm | | Ignored | |
| | 0.2 mm < D ≤ 0.3 mm | | 2 | |
| | 0.3 mm < D ≤ 0.5 mm | | 1 | |
| | 0.5 mm < D | | 0 | |
| | Total Q'ty | | 3 | |
| Touch panel spots | Size < 5" | | | |
| | Average Diameter | | Qualified Qty | |

| | | | |
|--------------------------------------|---------------------|-----------------|---------------|
| | D < 0.2 mm | | Ignored |
| | 0.2 mm < D < 0.4 mm | | 5 |
| | 0.4 mm < D < 0.5 mm | | 2 |
| | 0.5 mm < D | | 0 |
| Touch panel white line scratch | Size < 5" | | |
| | Length | Width | Qualified Qty |
| | - | W < 0.02 | Ignored |
| | L < 3.0 | 0.02 < W < 0.05 | 2 |
| | L < 2.5 | 0.05 < W < 0.08 | 2 |
| | - | 0.08 < W | 0 |

15. RELIABILITY TEST

| NO. | TEST ITEM | TEST CONDITION | NOTE |
|-----|-------------------------------------|--|--------|
| 1 | High Temperature Storage | 80°C/120 hours | Note 1 |
| 2 | Low Temperature Storage | -30°C/120 hours | |
| 3 | High Temperature Operating | 70 °C /120 hours | |
| 4 | Low Temperature Operating | -20°C/120 hours | |
| 5 | High Temperature and High Humidity | Humidity 40°C, 90%RH, 120Hrs | |
| 6 | Thermal Cycling Test (No operation) | -20°C for 30min, 70°C for 30 min. 100 cycles. Then test at room temperature after 1 hour | Note 2 |
| 7 | Vibration Test | Frequency: 10 ÷ 55 Hz. Stroke: 1.5 mm. Sweep: 10Hz ÷ 55Hz ÷ 10 Hz. 2 hours for each direction of X, Y, Z (Total 6 hours) | |
| 8 | Package Drop Test | Height: 60 cm 1 corner, 3 edges, 6 surfaces | |

Note 1. Sample quantity for each test item is 5 ÷ 10 pcs.

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



16.LEGAL INFORMATION

Riverdi grants the guarantee for the proper operation of the goods for a period of 12 months from the date of possession of the goods. If in a consequence of this guaranteed execution the customer has received the defects-free item as replacement for the defective item, the effectiveness period of this guarantee shall start anew from the moment the customer receives the defects-free item.

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