

RVT101HVHNWCA0

HB, IPS HDMI 10.1" LCD DATASHEET

Rev.1.3 2022-12-15

| ITEM | CONTENTS | UNIT |
|--------------------------------|---------------------------------------|-------|
| LCD Type | TFT/Transmissive/Normally Black/IPS | / |
| Size | 10.1 | Inch |
| Viewing Direction | Free | / |
| Outside Dimensions (W x H x D) | 229.46 x 149.10 x 19.68 | mm |
| Active Area (W x H) | 216.96 x 135.60 | mm |
| Pixel Pitch (W x H) | 0.1695 x 0.1695 | mm |
| Resolution | 1280 (RGB) x 800 | / |
| Brightness | 800 | cd/m² |
| Color Depth | 16.7 M | / |
| Pixel Arrangement | RGB Vertical Stripe | / |
| Controller of the Main Board | RTD2556QR | / |
| Video Interface | HDMI | / |
| With/Without Touch | With Projected Capacitive Touch Panel | / |
| CTP Driver | ILI2132A | / |
| Touch Panel Interface | USB-C | / |
| Power Supply | Power Jack (DC 7.0V - 14.0 V) | V |
| Weight | 485 | g |

Note 1. RoHS3 compliant

Note 2. LCM weight tolerance: ± 5%.

RVTI01HVHNWCA0



1. REVISION RECORD

| REV NO. | REV DATE | CONTENTS | REMARKS |
|---------|------------|--|---------|
| 1.0 | 2021-08-27 | Initial Release | |
| 1.1 | 2022-01-11 | PCB update – Interfaces of UART and Light sensor are not available on the latest PCB version | |
| 1.2 | 2022-01-27 | Supplementary Instructions: On the latest PCB board which doesn't have UART and light sensor interfaces, the power supply ranges from 7.0 V-14.0V instead of 8.0V-14.0V. Accordingly, related parameters VDD, I _{VDD=7.0V} are updated. | |
| 1.3 | 2022-12-15 | Update 2 parameters of Backlight PWM &Power - J5 Clarify PWM frequency range: 1kHz-10kHz Clarify the power input voltage range for pin5, 6 (VDD) Monitor controller is upgraded to from RTD2556T to RTD2556QR | |

RVTI01HVHNWCA0



2. CONTENTS

| 1. | R | EVISION RECORD | 2 |
|-----|-----|--|----|
| 2. | С | ONTENTS | 3 |
| 3. | M | MODULE CLASSIFICATION INFORMATION | 4 |
| 4. | M | 10DULE DRAWING | 5 |
| 5. | Α | BSOLUTE MAXIMUM RATINGS | 6 |
| 6. | Ε | LECTRICAL CHARACTERISTICS | 6 |
| 7. | В | SACKLIGHT DRIVING CONDITIONS | 6 |
| 8. | Ε | LECTRO-OPTICAL CHARACTERISTICS | 7 |
| 9. | ١N | NTERFACE DESCRIPTION | 9 |
| ç | 9.1 | PCB overview | 9 |
| 9 | 9.2 | Power connector - DC | 9 |
| 9 | 9.3 | HDMI connector – JP1 | 10 |
| ٥ | 9.4 | Touch panel connector - USB-C | 10 |
| 9 | 9.5 | External keyboard extension - J1 | 11 |
| 9 | 9.6 | Backlight PWM &power - J5 | 11 |
| 10. | | DISPLAY SPECIFICATION | 11 |
| 11. | | CAPACITIVE TOUCH SCREEN PANLE SPECIFICATIONS | 12 |
| 1 | 1.1 | Mechanical characteristics | 12 |
| 1 | 1.2 | Electrical characteristics | 12 |
| 12. | | INSPECTION | 13 |
| 1 | 2.1 | Inspection condition | 13 |
| 1 | 2.2 | 2 Inspection standard | 14 |
| 13. | | RELIABILITY TEST | 15 |
| 14. | | I FGAL INFORMATION | 16 |

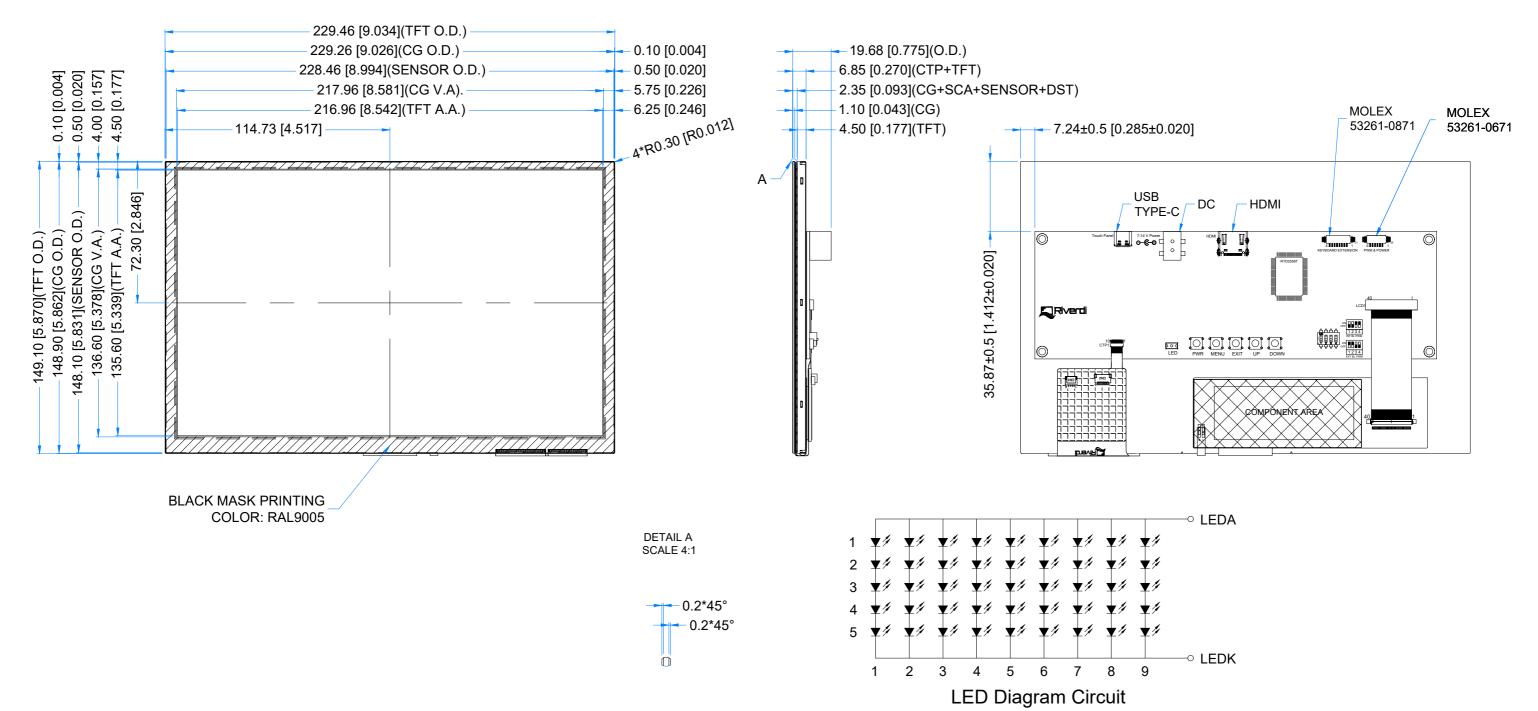


3. MODULE CLASSIFICATION INFORMATION

| | | | 101 | | | | | | | |
|---|----|----|-----|----|----|----|----|----|----|-----|
| Ī | 1. | 2. | 3. | 4. | 5. | 6. | 7. | 8. | 9. | 10. |

| NO. | PARAMETER | SYMBOL |
|-----|------------------|----------------------------------|
| 1. | BRAND | RV – Riverdi |
| 2. | PRODUCT TYPE | T – TFT Standard |
| 3. | DISPLAY SIZE | 101 – 10.1" |
| 4. | MODEL SERIAL NO. | H – High Brightness, IPS |
| 5. | RESOLUTION | V – 1280 x 800 px |
| 6. | INTERFACE | H – HDMI |
| 7. | FRAME | N – Without Mounting Metal Frame |
| 8. | BACKLIGHT TYPE | W – LED White |
| 9. | TOUCH PANEL | C – With Capacitive Touch Panel, |
| 10. | VERSION | A0 – aTouch |

| Revision: | Changes: | Date: |
|-----------|---|------------|
| 1.0 | Initial Case | 2021.08.09 |
| 1.1 | PCB Update And Dimensions Overhaul | 2022.01.05 |
| 1.2 | 1:1 Replacement: From RTD2556T To RTD2556QR | 2022.12.15 |



LCM NOTES:

- 1. LCD TYPE: TRANSMISSIVE, NORMALLY BLACK, IPS
- 2. RESOLUTION: 1280x800
- 3. VIEWING ANGLE: FREE
- 4. CONTROLLER IC OF MAIN BOARD: RTD2556QR
- 5. VIDEO INTERFACE: HDMI
- 6. POWER SUPPLY: POWER JACK (7.0-14.0V) 7. MODULE SURFACE LUMINANCE:800cd/m^2
- 8. ZERO BAD PIXEL

TP NOTES:

- 1. TP STRUCTURE: G+G
- 2. CG THICKNESS: 1.10mm[0.043inch]
- 3. SURFACE HARDNESS: 7H
- 4. DRIVER IC: ILI2132A 5. INTERFACE: USB-C

GENERAL NOTES:

1. MODULE SURFACE LUMINANCE: 800 cd/m^2

APPR:

Carol Gao

- 2. OPERATING TEMPERATURE: -20°C ~ 70°C
- 3. STORAGE TEMPERATURE: -30°C ~ 80°C
- 4. WITHOUT INDIVIDUAL TOLERANCE: ±0.3mm[0.012inch]
- 5. RoHS3 COMPLIANT

| PN: RVT101HVHNWCA0 SN: | FIR | Ve | حطا |
|------------------------|------------|--------|-----|
| DRAWN: M.Natywa | 2022.12.15 | 1:1.93 | |
| CHECKED: Carol Gao | 2022.12.15 | [mm] | |

2022.12.15

ISO A3

P. 1 of 1



5. ABSOLUTE MAXIMUM RATINGS

| PARAMETER | SYMBOL | MIN | MAX | UNIT |
|---|-----------------|-----|------|------|
| Supply Voltage for Module | VDD | 7.0 | 14.0 | V |
| Operating Temperature | T _{OP} | -20 | 70 | °C |
| Storage Temperature | T _{ST} | -30 | 80 | °C |
| Storage Humidity (@ 25 ± 5°C) | H _{ST} | 10 | - | % RH |
| Operating Ambient Humidity (@ 25 ± 5°C) | H _{OP} | 10 | - | % RH |

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

6. ELECTRICAL CHARACTERISTICS

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT | NOTE |
|---------------------------|--------|-----|------|------|------|------|
| Supply Voltage for Module | VDD | 7.0 | 12.0 | 14.0 | V | |

| PARAMETER | SYMBOL | BL 0% | BL 50% | BL 100% | UNIT | NOTE |
|----------------------------------|-----------|----------|-----------|------------|------|----------|
| Current Drawn from VDD@7.0V | | 290 | 940 | 1860 | mA | |
| Current Drawn from VDD@12.0V | I_{VDD} | 151 | 510 | 910 | mA | Note 1,2 |
| Current Drawn from VDD @14.0V | | 200 | 430 | 770 | mA | |

Note 1. BL 0% current was measured with BL brightness set to 0%,

BL 50% current was measured with BL brightness set to 50%,

BL 100% current was measured with BL brightness set to 100%.

Test condition: ambient temp is 25 °C

Note 2. The touch panel is powered by USB-C independently. Please refer to subchapter 12.1 for the touch panel current consumption.

7. BACKLIGHT DRIVING CONDITIONS

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNIT |
|--------------------------------|--------|-----|--------|-----|------|
| Backlight Power Consumption | WBL | - | 5760 | - | mW |
| Lifetime | - | - | 50,000 | - | |

Note. 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.



8. 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 | | - | 25 | 35 | ms | FIG 1. | 4 |
| Contrast Ratio | Cr | θ=O° | - | 800 | 1000 | | | 1 |
| Luminance Uniformity | δ WHITE | θ=0° ø=0° Ta=25°C | - | 75 | - | % | FIG 2. | 3 |
| Surface Luminance | Lv | 14 25 C | - | 800 | - | cd/m² | | 2 |
| | | ø = 90° | 75 | 85 | - | deg | | 6 |
| Viewing Angle | θ | ø = 270° | 75 | 85 | - | deg | FIG 3. | |
| Range | | ø = O∘ | 75 | 85 | - | deg | | |
| | | ø = 180° | 75 | 85 | - | deg | | |
| | Rx | | 0.22 | 0.26 | 0.30 | - | | |
| | Ry | | 0.20 | 0.24 | 0.28 | - | | |
| | Gx | θ=0° | 0.34 | 0.38 | 0.42 | - | | |
| CIE (x, y) | Gy | ø=0° | 0.50 | 0.54 | 0.58 | - | FIG 2. | 5 |
| Chromaticity | Bx | ∞=0 Ta=25 °C | 0.10 | 0.14 | 0.18 | - | FIG Z. | 5 |
| | Ву | 1a-23 C | 0.09 | 0.13 | 0.17 | - | | |
| | Wx | | 0.28 | 0.32 | 0.36 | - | - | |
| | Wy | | 0.29 | 0.33 | 0.37 | - | | |

Note 1. Contrast Ratio (CR) is defined mathematically as below, for more information see Figure 2.

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

Note 2. Surface luminance is the LCD surface from the surface with all pixels displaying white at BL 100%. For more information see Figure 2.

Lv = 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 2.

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

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 1. The test equipment is BM-7A.

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



Note 6. 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 3.

Note 7. Viewing angle is measured at the center point of the LCD by CONOSCOPE (ergo-80). For response time testing, the testing data is based on BM-7A. Instruments for Contrast Ratio, Surface Luminance, Luminance Uniformity, Chromaticity the test data is based on SR-3A.

Figure 1. The definition of response time

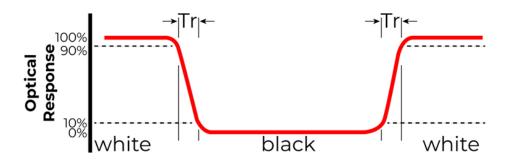


Figure 2. Measuring method for Contrast ratio, surface luminance, Luminance uniformity, CIE (x, y) chromaticity

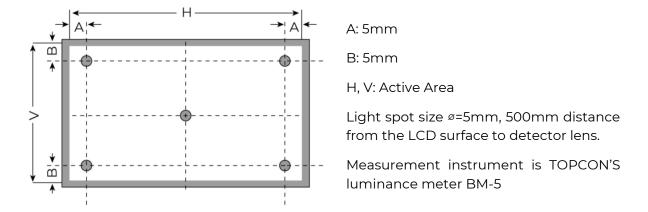
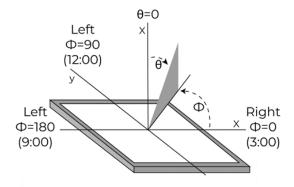


Figure 3. The definition of viewing angle

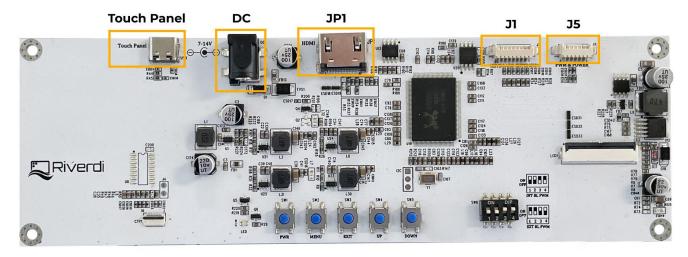




9. INTERFACE DESCRIPTION

9.1 PCB overview

Picture below shows the connectors exact placement and their descriptions.



| NAME | CONNECTOR | DESCRIPTION | NOTE |
|-------|----------------|--|--------|
| Touch | USB-C | Touch panel interface | |
| Panel | 030-0 | This is only for versions with touch panel. | |
| | | DC Jack, (5.5 mm OD; 2.1mm ID) | |
| DC | Power Jack | This is the connector to power on the TFT module. | |
| | | It allows DC for voltage range from 7.0V to 14.0V | |
| JP1 | HDMI connector | This is the connector to which you can connect the HDMI | |
| JPI | HDMI Connector | signal source to the module. | |
| | | Molex 53261-0871 or alternative; Horizontal, 1.25mm pitch; | |
| | External | 8 pins. | |
| Jl | keyboard | The connector is reserved for external keyboard. | Note 1 |
| | connector | Performs the same functions: | |
| | | PWR, MENU, EXIT, UP, DOWN as the push buttons on PCB. | |
| | | Molex 53261-0671 or alternative; Horizontal, 1.25mm pitch; | |
| J5 | Backlight PWM | 6 pins. | Note 2 |
| | & Power | The unit realizes the function of digital dimming. This | Note 2 |
| | | connector enables to control backlight PWM externally. | |

Note 1. External keyboards are optional, not included in the standard kit.

Note 2. 4 position-DIP onboard switch SW6 is used to choose the power to backlight.

The settings are:

INTERNAL BL PWM: Set 1&2 to OFF, and 3&4 to ON, EXTERNAL BL PWM: Set 1&2 to ON, and 3&4 to OFF.

9.2 Power connector - DC

| PIN NO. | SYMBOL | DESCRIPTION |
|---------|--------|-----------------------------|
| 1 | VDD | Power supply DC; 7.0V-14.0V |
| 2 | GND | GND |



9.3 HDMI connector – JP1

| PIN NO. | SYMBOL | DESCRIPTION |
|---------|--------------------|---------------------------------|
| 1 | TMDS Data 2+ | TMDS differential signal 2+ |
| 2 | TMDS Data2 Shield | Data2 shielding ground |
| 3 | TMDS Data 2- | TMDS differential signal 2- |
| 4 | TMDS Data 1+ | TMDS differential signal 1+ |
| 5 | TMDS Datal Shield | Datal shielding ground |
| 6 | TMDS Data 1- | TMDS differential signal 1- |
| 7 | TMDS Data 0+ | TMDS differential signal 0+ |
| 8 | TMDS Data 0 Shield | Data0 shielding ground |
| 9 | TMDS Data 0- | TMDS differential signal 0- |
| 10 | TMDS Data Clock+ | TMDS differential signal Clock+ |
| 11 | TMDS Data Shield | Clo6ck shielding ground |
| 12 | TMDS Data Clock- | TMDS differential signal Clock- |
| 13 | CEC | Electronic protocol CEC |
| 14 | NC | No Connection |
| 15 | SCL | I ² C clock Line |
| 16 | SDA | I ² C data Line |
| 17 | DDC/CEC GND | Data display channel |
| 18 | +5V | HDMI 5V |
| 19 | Hot Plug Detect | Hot plug Detect |

Note 1. Matched Riverdi 4K HDMI cable accessory: 4K HDMI CABLE

9.4 Touch panel connector - USB-C

| PIN NO. | SYMBOL | DESCRIPTION |
|---------|---------|---|
| A1 | USB_GND | USB_ Ground |
| B12 | USB_GND | USB_ Ground |
| A4 | V_BUS | V_Bus Power; 5V |
| B9 | V_BUS | V_Bus Power; 5V |
| A5 | CC1 | Configuration channel |
| A6 | DPI | USB differential pair, position 1, positive |
| A7 | DN1 | USB differential pair, position 1, negative |
| A8 | SBU1 | Sideband use |
| B5 | CC2 | Configuration channel |
| В6 | DP2 | USB differential pair, position 2, positive |
| B7 | DN2 | USB differential pair, position 2, negative |
| B8 | SBU2 | Configuration channel |
| A9 | V_BUS | V_Bus Power; 5V |
| B4 | V_BUS | V_Bus Power; 5V |
| A12 | USB_GND | USB_Ground |
| B1 | USB_GND | USB_Ground |

Note 1. All the signals in Touch panel connector are in accordance with USB-C standard.

Note 2. Matched Riverdi cable accessory: USB-A 2.0 TO USB-C CABLE



9.5 External keyboard extension - J1

| PIN NO. | SYMBOL | DESCRIPTION |
|---------|--------------|--------------------------------|
| 1 | Down | Page down |
| 2 | Up | Page up |
| 3 | Exit | Exit |
| 4 | Menu | Menu |
| 5 | PWR | Power on/off |
| 6 | LED_EN | LED Enable; Output signal 3.3V |
| 7 | GND | Ground |
| 8 | Keyboard VDD | Keyboard VDD; Output 3.3V |

Note 1. Matched Riverdi cable accessory:RVA-0108M-1.25FF

9.6 Backlight PWM &power - J5

| PIN NO. | SYMBOL | DESCRIPTION | NOTE |
|---------|--------|----------------------------|--------|
| 1 | GND | Ground | |
| 2 | GND | Ground | |
| 3 | EN | Backlight enable, active H | |
| 4 | PWM | PWM input; 3.3V | Note 1 |
| 5 | VDD | Power supply; 7.0V - 14.0V | |
| 6 | VDD | Power supply; 7.0V - 14.0V | Note 2 |

Note 1. PWM frequency range: 1kHz - 10kHz.

Note 2. Pin 5&6 are internally connected with power connector(DC-Jack), VDD. So, the voltage range is the same as power connector(DC-Jack)

Note 3. 4 position-DIP onboard switch **SW6** is used to choose the power source to backlight. The settings are:

- a) INTERNAL BL PWM: Set 1&2 to OFF, and 3&4 to ON,
- b) EXTERNAL BL PWM: Set 1&2 to ON, and 3&4 to OFF.

Note 4. Matched Riverdi cable accessory: RVA-0106M-1.25FF-1

10. DISPLAY SPECIFICATION

The TFT of the module applies Riverdi high brightness, IPS, 10.1" LVDS: RVT101HVLNWCA0

The supported resolution of the display in this module is 1280*800.

For detailed information, please refer to datasheet of display.



11. CAPACITIVE TOUCH SCREEN PANLE SPECIFICATIONS

11.1 Mechanical characteristics

| DESCRIPTION | SPECIFICATION | REMARK |
|--------------------------|-----------------------|--------|
| Touch Panel Size | 10.1 inch | |
| Outline Dimension of CTP | 229.26 mm x 148.90 mm | |
| Product Thickness | 2.35 mm | |
| Glass Thickness | 1.1mm | aTouch |
| CTP View Area | 217.96 mm x 136.60 mm | arouch |
| Sensor Active Area | 218.96mm x 137.60 mm | |
| Structure type | Glass + Glass | |
| Surface Hardness | 7H | |

11.2 Electrical characteristics

| PARAMETER | | SPECIFICATION | REMARK | |
|-------------------------|-------------|---------------|--------|--|
| Power Consumption (IDD) | Active Mode | 90 mA | | |
| Power Consumption (IDD) | Sleep Mode | 10 mA | | |
| Linearity | | +/-1.5mm | aTouch | |
| Controller | | ILI2132A | | |
| Resolution | | 1280 x 800 | | |



12.INSPECTION

Standard acceptance/rejection criteria for TFT module

12.1 Inspection condition

Ambient conditions:

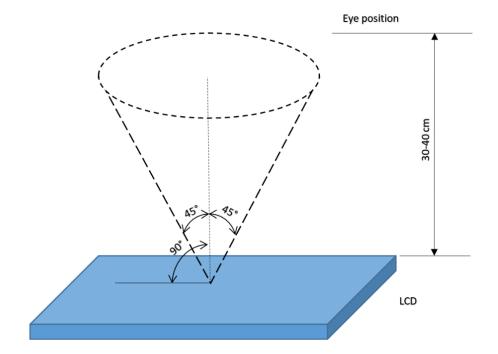
• Temperature: 25 ± 2°C

• Humidity: (60 ± 10) %RH

• Illumination: Single fluorescent lamp non-directive (300 to 700 lux)

Viewing distance: 35 ± 5cm between inspector bare eye and LCD.

Viewing Angle: U/D: 45°/45°, L/R: 45°/45°





12.2 Inspection standard

The LCD TFT has zero bad pixels. Please refer the item "Bright/Dark dots".

| ITEM | CRITERION | | | | | | | |
|---------------------------------|--|------------|-------------------|--------------------------|--------------------|---------|---------------|--|
| | x | | Size = 10.1" | | | | | |
| Black spots, white spots, | | _ | Average | Average Diameter | | Qua | Qualified Qty | |
| light leakage, Foreign Particle | | - | D ≤ 0.2 mm | | lgn | Ignored | | |
| (round Type) | D=(x+y)/2 | | 0.2 mm < | : D ≤ 0 |).3 mm | N≤₄ | N≤4 | |
| | Spots density: 10 n | nm | 0.5mm < | D | | Not | allowed | |
| | Width | | | | Size = 10 | .1" | | |
| LCD black spots, | | | Lengt | :h | Width | | Qualified Qty | |
| white spots, light leakage | Length | | - | | W ≤ 0.0 | 5 | Ignored | |
| (line Type) | - 1 | | L ≤ 5. | 0 | 0.05< W ≤ | 0.1 | N≤3 | |
| | Spots density: 10 n | nm | 5.0 < | L | 0.10< W 5.0 < L | | Not allowed | |
| | Size = 10.1 | | | | | | | |
| | ltem | | | Qualified Qty | | | | |
| Bright/Dark | Bright dots | | 0 | | | | | |
| Dots | Dark | | 0 | | | | | |
| | Cluster Bright Do | | | | | | | |
| | Total Bright a | nd Dark | | | | 0 | | |
| | Size ≥ 5.0" | | | | 0.1 | | | |
| | Average Diameter | | ſ | Qualified Qty Ignored | | | | |
| Clear spots | D < 0.2 mm | | m | _ | | | | |
| Clear spots | 0.2 mm < D < 0.3 mi 0.3 mm < D < 0.5 mi | | | | | | | |
| | 0.5 mm < D | | 0 | | | | | |
| | Spots density: 10 mm | | | | | | | |
| | opots delibity. To the | | Size > | Size ≥ 5.0" | | | | |
| | Average [| Diametei | | Qualified Qty | | | | |
| Touch panel | D < 0.25 mm | | | Ignored | | | | |
| spots | 0.25 mm < D < 0.5 mm | | ım | 4 | | | | |
| | 0.5 mm < D | | | 0 | | | | |
| | | | Size 2 | 5.0" | | | | |
| Touch panel | Length | W | dth Qualified Qty | | Qty | | | |
| white line | - W < 0.03 | | | Ignored | | | | |
| scratch | L < 5.0 0.03 < W < 0.05 | | | 2 | | | | |
| | - | - 0.05 < W | | 0 | | | | |



13.RELIABILITY TEST

| NO. | TEST ITEM | TEST CONDITION | NOTE |
|-----|-------------------------------------|---|--------|
| 1 | High Temperature Storage | 80°C/120 hours | |
| 2 | Low Temperature Storage | -30°C/120 hours | |
| 3 | High Temperature Operating | 70 °C /120 hours | Note 1 |
| 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) | |

Note 1. Sample quantity for each test item is $5 \div 10$ pcs.

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

RVTI01HVHNWCA0



14. LEGAL INFORMATION

CE marking is usually obligatory only for a complete end product. Riverdi display modules are semi-finished goods which are used as inputs to become part of the finished products.

Therefore, Riverdi display modules are not CE marked.

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.

Information about device is the property of Riverdi and may be the subject of patents pending or granted. It is not allowed to copy or disclosed this document without prior written permission.

Riverdi endeavors to ensure that all contained information in this document is correct but does not accept liability for any error or omission. Riverdi products are in developing process and published information may be not up to date. Riverdi reserves the right to update and makes changes to Specifications or written material without prior notice at any time. It is important to check the current position with Riverdi.

Images and graphics used in this document are only for illustrative the purpose. All images and graphics are possible to be displayed on the range products of Riverdi, however the quality may vary. Riverdi is no liable to the buyer or to any third party for any indirect, incidental, special, consequential, punitive, or exemplary damages (including without limitation lost profits, lost savings, or loss of business opportunity) relating to any product, service provided or to be provided by Riverdi, or the use or inability to use the same, even if Riverdi has been advised of the possibility of such damages.

Riverdi products are not fault tolerant nor designed, manufactured or intended for use or resale as on line control equipment in hazardous environments requiring fail–safe performance, such as in the operation of nuclear facilities, aircraft navigation or communication systems, air traffic control, direct life support machines or weapons systems in which the failure of the product could lead directly to death, personal injury or severe physical or environmental damage ('High-Risk Activities'). Riverdi and its suppliers specifically disclaim any expressed or implied warranty of fitness for High-Risk Activities. Using Riverdi products and devices in 'High-Risk Activities' and in any other application is entirely at the buyer's risk, and the buyer agrees to defend, indemnify, and hold harmless Riverdi from all damages, claims or expenses resulting from such use. No licenses are conveyed, implicitly or otherwise, under any Riverdi intellectual property rights.



Hi, I am here to help you! If you have any additional questions, please contact our support via email: contact@riverdi.com

