



RVT101HVHNWC00-B

HB, IPS HDMI 10.1" LCD DATASHEET

Rev.1.6

2024-08-14

ITEM	CONTENTS	UNIT
LCD Type	TFT/Transmissive/Normally Black/IPS	/
Size	10.1	Inch
Viewing Direction	Free	/
Outside Dimensions (W x H x D)	257.96 x 168.60 x 19.23	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	850	cd/m <sup>2</sup>
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
Bonding Technology	Optical Bonding	/
Weight	510	g

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



## 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 <sub>VDD</sub> =7.0V are updated.	
1.3	2022-12-15	Update 2 parameters of <b>Backlight PWM &amp; Power - J5</b> <ul style="list-style-type: none"> <li>Clarify PWM frequency range: 1kHz-10kHz</li> <li>Update the power supply voltage: 7.0V-14.0V</li> </ul> Monitor controller is upgraded from RTD2556T to RTD2556QR	
1.4	2023-06-05	<ul style="list-style-type: none"> <li>100% PWM duty cycle corresponds to minimum brightness</li> <li>0% PWM duty cycle corresponds to maximum brightness</li> </ul>	
1.5	2023-08-23	Update note 4 on section 10.6 <ul style="list-style-type: none"> <li>Pins 1,2 and 5,6 of accessory RVA-0106M-1.25FF-1 have misleading colors</li> </ul>	
1.6	2024-08-14	<ul style="list-style-type: none"> <li>Updated the electrical parameters of power supply current.</li> </ul>	



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3. MODULE CLASSIFICATION INFORMATION

RV	T	101	H	V	H	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	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	00 – (00-99)
11	BONDING TECHNOLOGY	B – Optical bonding

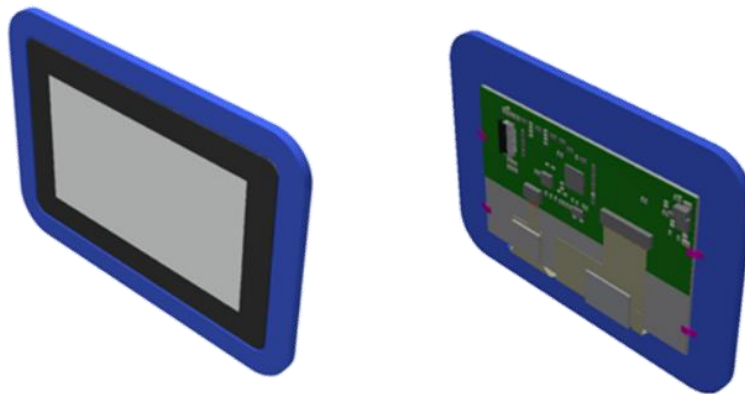
## 4. ASSEMBLY GUIDE

### 4.1 uxTouch ASSEMBLY

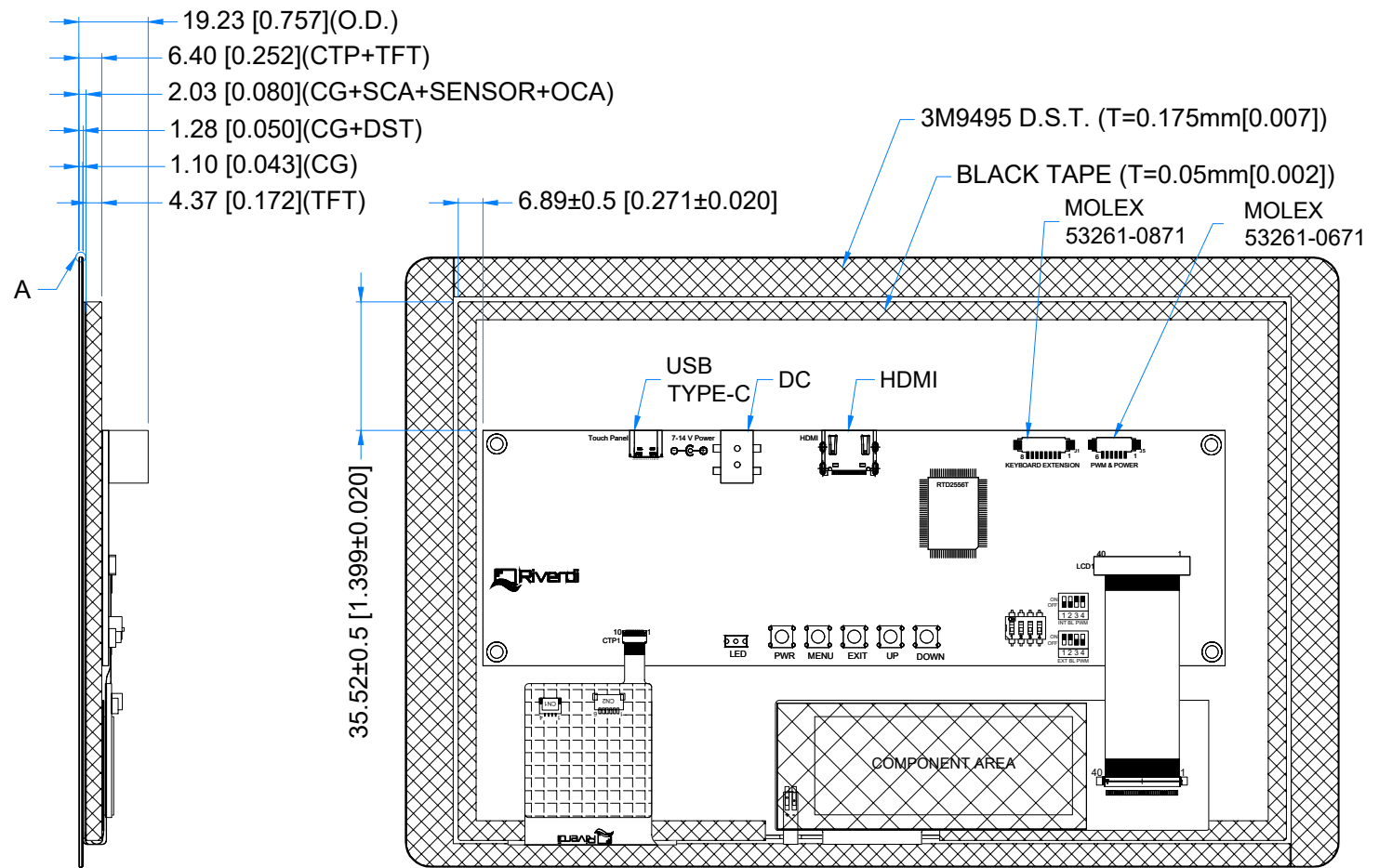
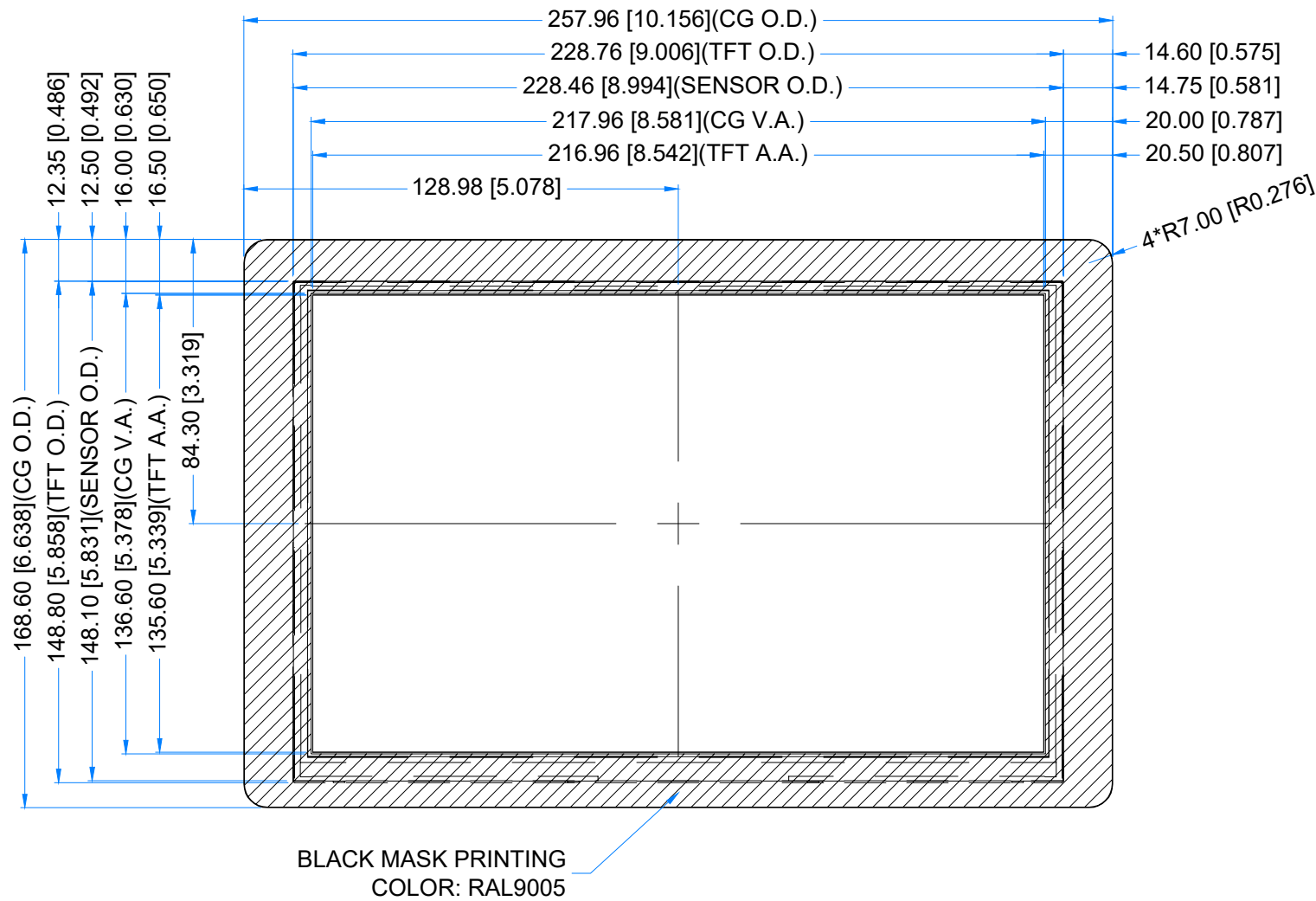
uxTouch are LCD TFT displays with specially designed projected capacitive touch panels. uxTouch display can be mounted without any additional holes in the housing. Our standard uxTouch displays include double-sided adhesive tape (DST) to stick TFT easily to the housing.

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

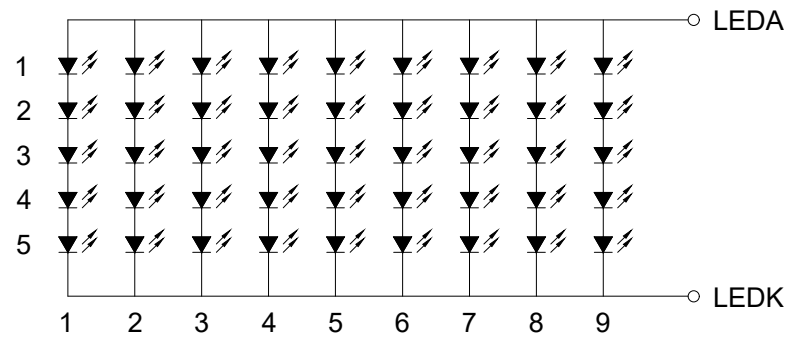
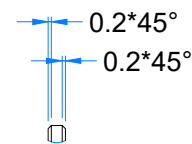
*Figure 1. Example of using the support brackets*



Revision:	Changes:	Date:
1.0	Initial Case	2021.06.16
1.1	PCB Update And Dimensions Overhaul	2022.01.05
1.2	1:1 Replacement: From RTD2556T To RTD2556QR	2022.12.15



DETAIL A  
SCALE 4:1



LED Diagram Circuit

**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: 850cd/m<sup>2</sup>
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: 850 cd/m<sup>2</sup>
2. OPTICAL BONDING
3. OPERATING TEMPERATURE: -20°C ~ 70°C
4. STORAGE TEMPERATURE: -30°C ~ 80°C
5. WITHOUT INDIVIDUAL TOLERANCE: ±0.3mm[0.012inch]
6. RoHS3 COMPLIANT

PN: RVT101HVHNWC00-B

SN:

DRAWN: M.Natywa

2022.12.15

1:1.94

CHECKED: Carol Gao

2022.12.15

[mm]

APPR: Carol Gao

2022.12.15

ISO A3

P. 1 of 1





## 6. ABSOLUTE MAXIMUM RATINGS

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

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

## 7. 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	I <sub>VDD</sub>	273	751	1993	mA	Note 1,2
Current Drawn from VDD@12.0V		184	421	685	mA	
Current Drawn from VDD @14.0V		168	332	555	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 12.2 for the touch panel current consumption.

## 8. 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.



## 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  $\Phi$  and  $\theta$  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	-	25	35	ms	FIG 2.	4
Contrast Ratio	Cr		-	800	1000	---	FIG 3.	1
Luminance Uniformity	$\delta$ WHITE		-	75	-	%		3
Surface Luminance	Lv		-	850	-	cd/m <sup>2</sup>		2
Viewing Angle Range	$\theta$	$\phi = 90^\circ$	75	85	-	deg	FIG 4.	6
		$\phi = 270^\circ$	75	85	-	deg		
		$\phi = 0^\circ$	75	85	-	deg		
		$\phi = 180^\circ$	75	85	-	deg		
CIE (x, y) Chromaticity	Rx	$\theta=0^\circ$ $\phi=0^\circ$ Ta=25 °C	0.22	0.26	0.30	-	FIG 3.	5
	Ry		0.20	0.24	0.28	-		
	Gx		0.34	0.38	0.42	-		
	Gy		0.50	0.54	0.58	-		
	Bx		0.10	0.14	0.18	-		
	By		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 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 at BL 100%. 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  $\delta$  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 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 4.

**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 2. The definition of response time

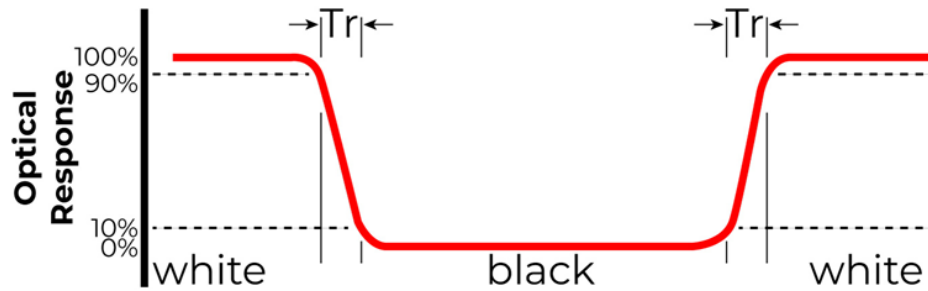


Figure 3. Measuring method for Contrast ratio, surface luminance, Luminance uniformity, CIE (x, y) chromaticity

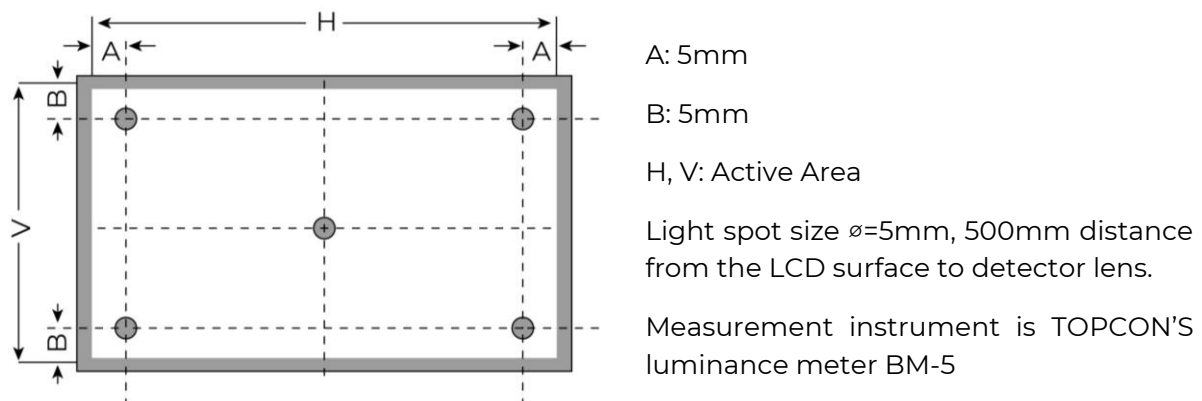
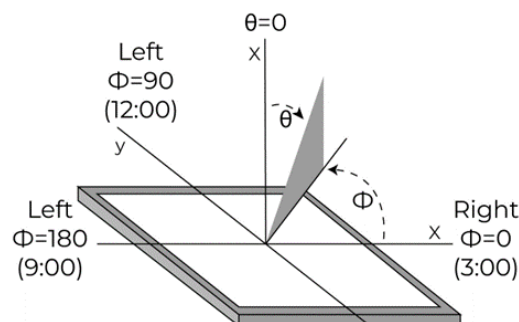


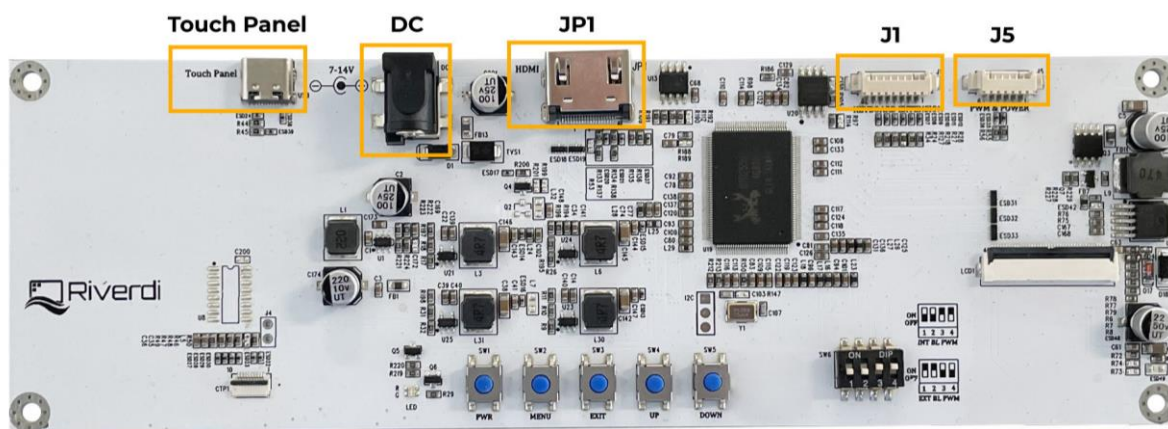
Figure 4. The definition of viewing angle



## 10. INTERFACE DESCRIPTION

### 10.1 PCB overview

Picture below shows the connectors exact placement and their descriptions.



NAME	CONNECTOR	DESCRIPTION	NOTE
Touch Panel	USB-C	Touch panel interface This is only for versions with touch panel.	
DC	Power Jack	DC Jack, (5.5 mm OD; 2.1mm ID) 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 signal source to the module.	
J1	External keyboard connector	Molex 53261-0871 or alternative; Horizontal, 1.25mm pitch; 8 pins. The connector is reserved for external keyboard. Performs the same functions: PWR, MENU, EXIT, UP, DOWN as the push buttons on PCB.	Note 1
J5	Backlight PWM & Power	Molex 53261-0671 or alternative; Horizontal, 1.25mm pitch; 6 pins. The unit realizes the function of digital dimming. This connector enables to control backlight PWM externally.	Note 2

**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.

### 10.2 Power connector - DC

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

### 10.3 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 Data1 Shield	Data1 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	Clock shielding ground
12	TMDS Data Clock-	TMDS differential signal Clock-
13	CEC	Electronic protocol CEC
14	NC	No Connection
15	SCL	I <sup>2</sup> C clock Line
16	SDA	I <sup>2</sup> 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

### 10.4 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	DP1	USB differential pair, position 1, positive
A7	DN1	USB differential pair, position 1, negative
A8	SBU1	Sideband use
B5	CC2	Configuration channel
B6	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



## 10.5 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

## 10.6 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	Note 2
6	VDD	Power supply; 7.0V - 14.0V	

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

100% PWM duty cycle corresponds to minimum brightness

0% PWM duty cycle corresponds to maximum brightness

**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

**Attention!** An essential detail concerning this cable setup in your application: pins 1,2 and 5,6 have misleading colors.

## 11. DISPLAY SPECIFICATION

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

RVTI01HVLNWC00-B

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

For detailed information, please refer to datasheet of display.

## 12. CAPACITIVE TOUCH SCREEN PANLE SPECIFICATIONS

### 12.1 Mechanical characteristics

DESCRIPTION	SPECIFICATION	REMARK
Touch Panel Size	10.1 inch	uxTouch
Outline Dimension of CTP	257.96 mm x 168.60 mm	
Product Thickness	2.03mm	
Glass Thickness	1.1mm	
CTP View Area	217.96 mm x 136.60 mm	
Sensor Active Area	218.96mm x 137.60 mm	
Structure type	Glass + Glass	
Surface Hardness	7H	

### 12.2 Electrical characteristics

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

## 13. INSPECTION

Standard acceptance/rejection criteria for TFT module

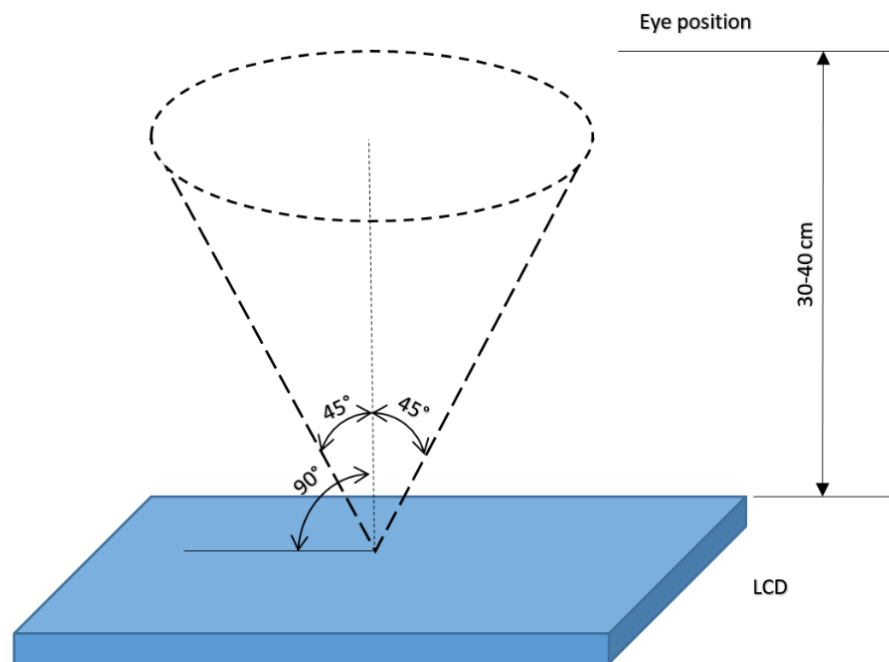
### 13.1 Inspection condition

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)

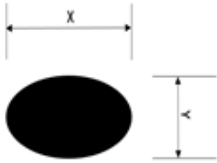

Viewing distance:  $35 \pm 5\text{cm}$  between inspector bare eye and LCD.

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



### 13.2 Inspection standard

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

ITEM	CRITERION			
Black spots, white spots, light leakage, Foreign Particle (round Type)	 D=(x+y)/2  Spots density: 10 mm	Size = 10.1"		
		Average Diameter	Qualified Qty	
		D ≤ 0.2 mm	Ignored	
		0.2 mm < D ≤ 0.3 mm	N≤4	
		0.5mm < D	Not allowed	
LCD black spots, white spots, light leakage (line Type)	  Spots density: 10 mm	Size = 10.1"		
		Length	Width	Qualified Qty
		-	W ≤ 0.05	Ignored
		L ≤ 5.0	0.05< W ≤ 0.1	N≤3
		5.0 < L	0.10< W 5.0 < L	Not allowed
Bright/Dark Dots	Size = 10.1			
	Item		Qualified Qty	
	Bright dots		0	
	Dark dots		0	
	Cluster Bright Dots or Dark Dots		0	
	Total Bright and Dark Dots		0	
Clear spots	Size ≥ 5.0"			
	Average Diameter		Qualified Qty	
	D < 0.2 mm		Ignored	
	0.2 mm < D < 0.3 mm		4	
	0.3 mm < D < 0.5 mm		2	
	0.5 mm < D		0	
	Spots density: 10 mm			
Touch panel spots	Size ≥ 5.0"			
	Average Diameter		Qualified Qty	
	D < 0.25 mm		Ignored	
	0.25 mm < D < 0.5 mm		4	
	0.5 mm < D		0	
Touch panel white line scratch	Size ≥ 5.0"			
	Length	Width	Qualified Qty	
	-	W < 0.03	Ignored	
	L < 5.0	0.03 < W < 0.05	2	
	-	0.05 < W	0	



#### 14. 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)	

**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.





## 15. 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.

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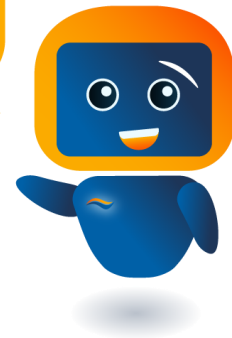
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