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TFT LCD MODULE 3.5 inch 320RGB*480DOTS

MODULE NUMBER: PV0350B2Z10

REVISION: V00

Cus	stomer Approval:
	Approved For Specifications
	Approved For Specifications & Sample

Prepared by	Checked by	Approved by
王加林		

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Document Revision History

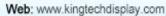
Version	Date	Page	Description	Changed By
V00	2016.11.24	-	First issue	王加林

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1. LCM Specification

1.1 Description

PV0350B2Z10 is a transmissive type color active matrix liquid crystal display(LCD) which uses amorphous thin film transistor(TFT) as switching devices. This product is composed of a TFT LCD panel, a drive IC, a RTP,a FPC and a LED-backlight unit. The active display area is 3.5 inches diagonally measured and the native resolution is 320*RGB*480.Features of this product are listed in the following table.

1.2 Functions & Features

Table 1.1 Module Functions & Features

Table 1.1 Module 1 dilottorio & 1 cataleo							
Parameter	Value	Unit					
LCD Mode	TFT/Transmissive	-					
Color Depth	16.7M	-					
Display Resolution	320RGB*480	pixels					
Module Size	53.76(W)*84.18(H)*3.30(T)(Exclude FPC)	mm					
Active Area (A.A)	48.96(W)*73.44(H)	mm					
Pixel Arrangement	RGB-stripe	-					
Viewing Direction	Wide View						
Display Mode	Normally Black						
LCD Controller/Driver	ILI9488	-					
IC Package Type	COG	-					
Interface	MPU 16-bit	-					
Power Supply Voltage	2.8~3.3	V					
LCM Brightness	200	cd /m²					
Back-light	White LED*6	PCS					

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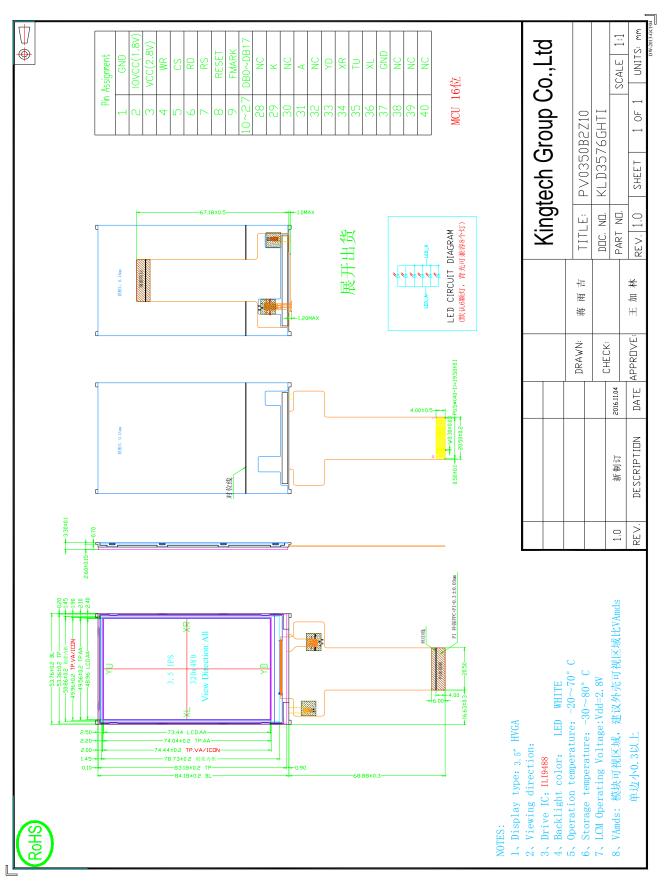
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2. Mechanical Specification



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3. Pin Descriptions

Pin No.	Symbol	I/O	Functional	Remark
1	GND	Р	System ground.	
2	IOVCC	Р	Power supply, 1.65~3.2V	
3	VCC	Р	Power supply, 3.0~3.2V	
4	WR	I	bus interface operation.	
5	CS	I	Chip select input pin	
6	RD	I	bus interface operation.	
7	RS	I	Selects register.	
8	RESET	I	RESX pin	
9	FMARK	I	Tearing effect output.	
10~27	DB0~DB17	I/O	18-bit interface: DB0-DB15 are used	
28	NC	-	-	
29	LEDK	Р	LED Power supply -	
30	NC	-	-	
31	LEDA	Р	LED Power supply +	
32	NC	-	-	
33	TP_D	1	Down electrode – differential analog	
34	TP_R	1	Right electrode – differential analog	
35	TP_U	I	Up electrode – differential analog	
36	TP_L	Ι	Left electrode – differential analog	
37	GND	Р	System ground.	
38	NC	-	-	
39	NC	-	-	
40	NC	-	-	

说明:模组默认设置为 MPU 16-Bit 接口

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4. Electrical Units

4.1 Absolute Maximum Ratings

The absolute maximum ratings are list on Table 4.1. When used out of the absolute maximum ratings, the LCM may be permanently damaged. Using the LCM within the following electrical characteristics limit is strongly recommended for normal operation. If these electrical characteristic conditions are exceeded during normal operation, the LCM will malfunction and cause poor reliability.

Table 4.1 Module Absolute Maximum Ratings

Item	Symbol	Unit	Value	Note				
Input power supply	Vdd	V	-0.3 to +3.6					
Analog power supply	Avdd	V	-0.3 to +3.6					
Operating Temperature	Тор	°C	-20 to +70					
Storage Temperature	Tst	°C	-30 to +80					
Operating Humidity	Нор	%(RH)	80					

(VSS=0V)

4.2 Electrical characteristics

Table 4.2:DC Characteristic

Ite	m	Symbol	Condition	Min.	Type.	Max.	Unit	
Supply Voltage	Logic	IOVCC		1.65	1.8	3.2	V	
Analog power supply	Logic	VCC		2.5	2.8	3.2	V	
Input	H level	ViH		0.7IOVdd		IOVdd		
Voltage	L level	VIL		DGND		0.3IOVdd	V	
Output	H level	V _o H		0.8IOVdd		lOvdd	V	
Voltage	L level	Vol		DGND		0.2IOVdd	V	

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4.3 Back-light Specification

Table 4.3 Back-light Characteristics

Item	Symbol	Condit	ions	Min.	Type.	Max.	Unit	
Supply Voltage	VF	Only Backlig	ıht	2.8	3.0	3.3	V	
Supply Current	IF	Offiny Backing	120			mA		
Average Brightness	IV	Backlight Cu IF=120mA	ırrent	5500			Cd/ m ²	
CIE Color Coordinate	Х	Backlight	Current	0.220		0.260	_	
(Without LCD)	Y	IF=120mA		0.220		0.260		
Uniformity	В	Backlight IF=120mA	Current		80%	-	%	
Color		White						

Note: 6 LEDs in Parallel connection.

4.4 RTP Specification

ITO Glass: $T=0.7\text{mm} \quad 500\Omega/\Box \pm 200\Omega$

ITO Film: T=0.188mm $270\Omega/\Box \pm 150\Omega$

Surface Hardness: 3H-Pressure 200gf, 45deg

Hitting Durability: 1,000,000 times (Tip R8mm)

Pen Sliding Durability: 100,000 times (Tip R0.8mm)

Insulation Impedance: DC 5V min, 20MΩ↑

Light Transparency: 78% min

Operating Voltage: 5V DC; Max Voltage: 10V DC

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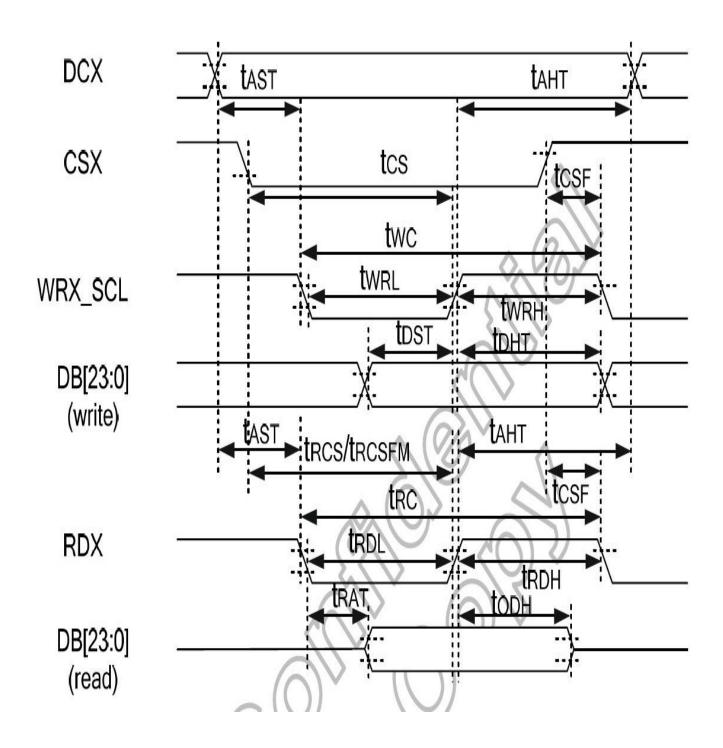


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5. AC Characteristics



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* (VSSA=0V, IOVCC=1.8V, VCI=2.8V, TA=25° C)

Signal	Symbol	Parameter	Min.	Max.	Unit	Description
DCV	Tast	Address setup time	0	_		
DCX	Tast Taht Tes Tres Tresfm Tesf Twe Twe	Address hold time (Write/Read)	10	-	ns	
CSX	Tcs	Chip select setup time (Write)	10	_		
	Trcs	Chip select setup time (Read register)	45	_		
	Trcsfm	Chip select setup time (GRAM)	355	_	ns	
	Tcsf	Chip select wait time (Write/Read)		_		
	Twc	Write cycle (write register)	50	_		
	Twc	Write cycle (write GRAM@SLPOUT)	47	_		
WRX	Twc	Write cycle (write GRAM@SLPIN)		_	ns	
	Twrh	Control pulse "H" duration	15	_		
	Twrl	Control pulse "L" duration		_		
	Trc	Read cycle (read register)	160	_		
	Trc	Read cycle (GRAM)	450	_		
RDX	Trdh	Control pulse "H" duration	90	_	ns	
	Trdl	Control pulse "L" duration(read register)	35	_		
	Trdl	Control pulse "L" duration(GRAM)	345	_		
	Tdst	Data setup time	10	_		
	Tdht	Data hold time	10	_		For maximum
DB[23:0]	Trat	Read access time(read register)	_	40	ns	CL=30pF For minimum
	Trat	Read access time(GRAM)	-	340		CL=8pF
	Todh	Output disable time	20	80		

Note: The input signal rise time and fall time (tr, tf) is specified at 15 ns or less. Logic high and low levels are specified as 30% and 70% of IOVCC for Input signals.

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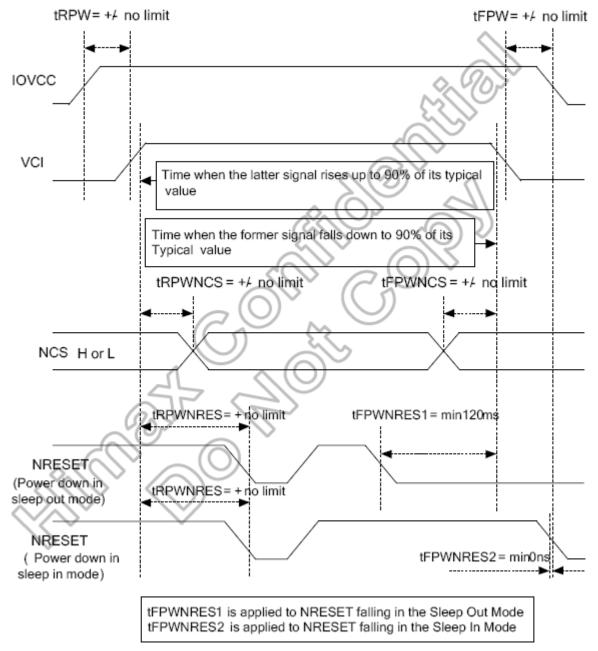
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6. Power On/Off Sequence

6.1 Case 1 – NRESET line is held high or unstable by host at power on

If NRESET line is held high or unstable by the host during Power On, then a Hardware Reset must be applied after both IOVCC, VCI have been applied, otherwise correct functionality is not guaranteed. There is no timing restriction upon this hardware reset.



 $\textbf{Note} : \textbf{Unless otherwise specified timings herein show cross point at } 50\% \ of \ signal/power \ level$

Figure 5.31: Case 1 - NRESET line is held high or unstable by host at power on

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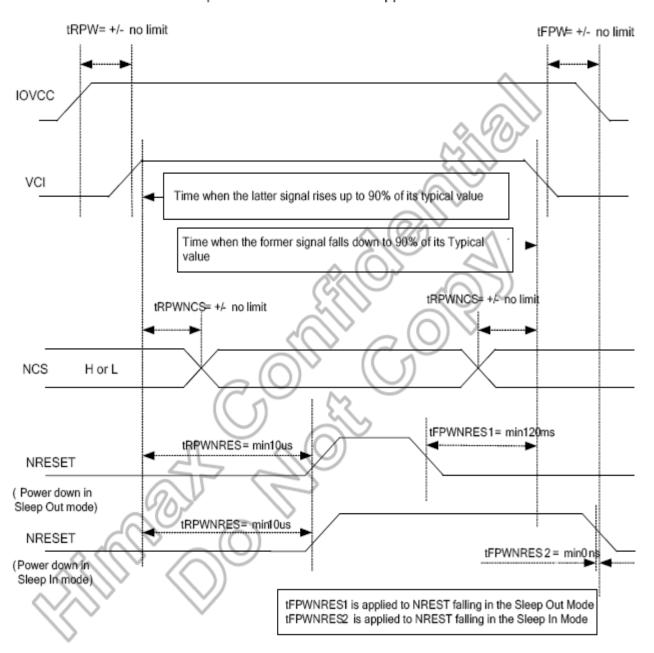
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6.2 Case 2 – NRESET line is held low by host at power on

If NRESET line is held Low (and stable) by the host during Power On, then the NRESET must be held low for minimum 10µsec after VCI have been applied.



Note: Unless otherwise specified timings herein show cross point at 50% of signal/power level

Figure 5.32: NRESET line is held low by host at power on

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7. Optical Specification

7.1 Optical Specification

Light Source: C-light

(With UP Polarizer: APCFH4CVT, Down Polarizer: NPFCVT1764FCUARC9)

Ta=25°℃

ltem		Symbol	Condition	Min	Тур	Max	Unit	Remark
		θТ		80	-	-		
View Angle		θВ	CR≧10	80	-	-	Dograd	Note 2
		θL	ON≦ IU	80	-	-	Degree	Note 2
		θR		80	-	-4		
Contrast Ratio		CR	θ=0°	400	800	-		Note1 Note3
Response Time	Δ .	Ton	25℃	_	25	35	ms	Note1
response rim		Toff	θ=0°	_	23	33		Note4
	White	х		0.27	0.31	0.35		
	vviite	у		0.28	0.32	0.36		
	Red	х		1	1-	-		
Color Filter		у	θ=0°	-	-	-		
Chromaticity	Green	х	0=0		-	ı		
	Green	у		-	-	-		
	Blue	х		-	-	-		
	blue	У		-	-	-		
NTSC			θ=0°	-	72.8	-	%	Note 5
Transmittance		J	θ=0°	-	4.4	-	%	Note1 Note5

Test Conditions:

- The ambient temperature is 25℃.
- The test systems refer to Note 1 and Note 2.
- The Transmittance and NTSC are the emulated values base on the panel with normal polarizer and C-Light, and when using LED back light they will be to decrease about 0.3%.

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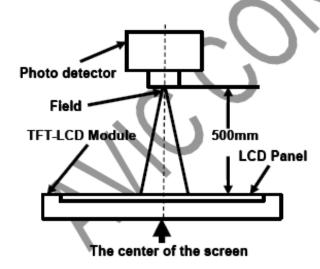
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Note 1: Definition of optical measurement system.

The optical characteristics should be measured in dark room. After 5 minutes operation, the optical properties are measured at the center point of the LCD screen. All input terminals LCD panel must be ground when measuring the center area of the panel.



Item	Photo detector	Field	
Contrast Ratio	SR-3A	1°	
Chromaticity			
Response Time	BM-7A	2°	

Note 2: Definition of viewing angle range and measurement system, viewing angle is measured at the center point of the LCD by CONOSCOPE (ergo-80).

Viewing angle is measured With EWV Polarizer.

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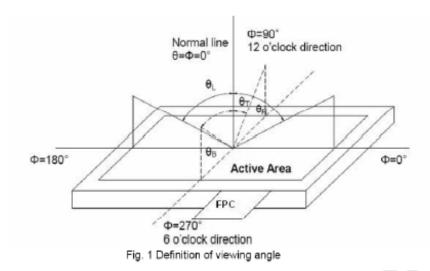
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Note 3: Definition of contrast ratio

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

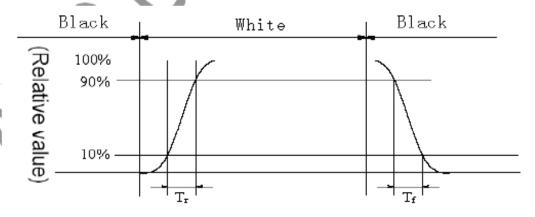
"White state ": The state is that the LCD should driven by Vwhite

"Black state": The state is that the LCD should driven by Vblack.

Vwhite: To be determined Vblack: To be determined.

Note 4: 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%.



Note 5: Definition of color chromaticity (CIE1931)

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8. Reliability Test Items

No.	Test Item	Test Condition	Remarks
1	High Temperature Operation	Ts = +70°C, 240 hours (Note1)	IEC60068-2-1:2007 GB2423.2-2008
2	ILow Temperature Operation	Ts = -20°C, 240 hours (Note1)	IEC60068-2-1:2007 GB2423.1-2008
3	High Temperature Storage	Ta = +80℃, 240 hours	IEC60068-2-1:2007 GB2423.2-2008
4	Low Temperature Storage	Ta = -30°C, 240 hours	IEC60068-2-1:2007 GB2423.1-2008
5	Storage at HighTemperature and Humidity	Ta = $+50$ °C , 90% RH max,240hours	IEC60068-2-78:2001 GB/T2423.3—2006
6	Thermal Shock (non-operation)	-30°C 30 min~+80°C 30 min, Change time:5min, 20 Cycle	Start with cold temperature, End with high temperature, IEC60068-2-14:1984, G B2423,22-2002
7	Package Vibration Test	Frequency range:10~55Hz Stroke:1.5mm Sweep:10Hz~55Hz~10Hz 1 hour for each direction of X.Y.Z. (3 hours for total)	IEC60068-2-6:1982 GB/T2423.10—1995
8	Package Drop Test	Height:60cm, 1corner,3edges,6surfaces	IEC60068-2-32:1990 GB/T2423.8—1995

Note1: Ts is the temperature of panel's surface.

Note2: Ta is the ambient temperature of samples.

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

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9. Handling Precautions

- 9.1 Handling Precautions
 - 9.1.1 The display panel is made of glass. Do not subject it to a mechanical shock by dropping it from a high place, etc.
 - 9.1.2 If the display panel is damaged and the liquid crystal substance inside it leaks out, be sure not to get any in your mouth, if the substance comes into contact with your skin or clothes promptly wash it off using soap and water.
 - 9.1.3 Do not apply excessive force to the display surface or the adjoining areas since this may cause the color tone to vary.
 - 9.1.4 If the display surface is contaminated, breathe on the surface and gently wipe it with a softdry cloth. If still not completely clear, moisten cloth with one of the following solvents:
 - Isopropyl alcohol
 - Ethyl alcohol

Solvents other than those mentioned above may damage the polarizer. Especially, do not use the following:

- Water
- Ketone
- Aromatic solvents
- 9.1.5 Do not attempt to disassemble the LCD.
- 9.1.6 If the logic circuit power is off, do not apply the input signals.
- 9.1.7 To prevent destruction of the elements by static electricity, be careful to maintain an optimum work environment.
 - 9.1.7.1 Be sure to ground the body when handling the LCD.
 - 9.1.7.2 Tools required for assembly, such as soldering irons, must be properly ground.
 - 9.1.7.3 To reduce the amount of static electricity generated, do not conduct assembly and other work under dry conditions.
- 9.2 Storage precautions
 - 9.2.1 When storing the LCD, avoid exposure to direct sunlight or to the light of fluorescent lamps.
 - 9.2.2 The LCD should be stored under the storage temperature range. If the LCD will be stored for a long time, the recommend condition is:
 - Temperature : 0° C \sim 40 $^{\circ}$ C Relatively humidity: \leq 80%
 - 9.2.3 The LCD should be stored in the room without acid, alkali and harmfullgas.
- 9.3 Transportation Precautions:
 - The LCD should be no falling and violent shocking during transportation, and also should avoid excessive press, water, damp and sunshine.

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10. QC

10.1 Purpose

To ensure the stability of our product and standardize our inspection

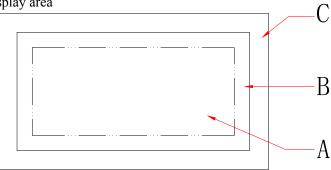
10.2 Application Range

This standard is applied to all 4.3 inch and smaller sized LCM product from Elsun Technology Co.Ltd

10.3 Definition of inspection area

C area: The area covered after installation

B area: visible area A area: display area

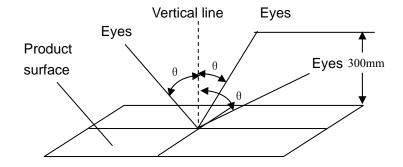


10.4 The environmental condition of inspection

Lighting conditions should be $20 \sim 40W$ fluorescent lamp (illumination at 1000 ± 200 lux)

Test ambient temperature should be 23 ± 5 °C, humidity at 50 ± 20% RH

The tested products should be placed 300mm away from the examiner's eye, and 30 degrees in the vertical direction observed within the region



10.5 Identification

- 10.5.1 Bright dot: dots appearing bright and unchanged in size when the LCD panel is under black pattern.
- 10.5.2 Dark dot: dots appearing dark and unchanged size when the LCD panel is under RGB picture.

10.6 Inspection items and criteria

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10.6.1 Serious defect

No	inspection item	inspection criteria	defect grade
10.6.1.1	function failure	 Non-display not allowed Line missing not allowed Invalid touch and drift not allowed (if need) 	main defect
10.6.1.2	break	broken display not allowed	main defect
10.6.1.3	dimension	Dimension tolerance out of specified in the drawing not allowed.	main defect

10.6.2 Appearance defect

No	Inspection item	inspection criteria				defect grade
10.601	Dot defect black dot, white dot, dirt on	1. dot defect identification: $\Phi = \frac{(\chi + \gamma)}{2}$ 2. inspection criteria range				
10.6.2.1	surface, stain, bubble	Aran and	quantity allowed			Minor defect
		dimension(mm)	A area	B area	C area	
		Φ ≤0.15	ignore			
		$0.15 < \Phi \le 0.20$	2 (spacing>=10mm)			
		0.20< Φ ≤0.3	1		ignore	
		Ф>0.3	0			
		L				

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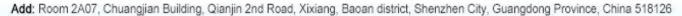
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F										
	No	Inspection item		inspection criteria				defect grade		
			identification dimension L: length W: width	n of line			3			
			2. inspection cr	iteria						
	10.6.2.2	line defect visible	dimensio	on(mm)	quantity	quantity allowed (total 3 pcs)		Minor defect		
		black/white line	L (length)	W (width)		area				
			L (longur)	w (widui)	A area	B area	C area			
			ignore	W≤0.03	ign	ore				
					L≤3.0	0.03 <w≤ 0.05</w≤ 	2	2		
			L≤3.0	0.05 <w≤ 0.08</w≤ 		1	ignore			
_				W>0.08		cording to lefect				
			1-If the scratch to 10.6.2.2 2-If the scratch non-working sta	ch is visible	at spec	cial ange	el or at			
		10.6.2.3 scratch	dimension (mm) Quantity allowed		wed					
			L (length)	L (length) W (width)	area					
	10.6.2.3				A	В	С	Minor defect		
			ignore	W≤0.03	igr	nore				
			5.0 <l≤10. 0<="" td=""><td>0.03<w≤ 0.05</w≤ </td><td></td><td>2</td><td>ignore</td><td></td></l≤10.>	0.03 <w≤ 0.05</w≤ 		2	ignore			
			L≤5.0	0.05 <w≤ 0.08</w≤ 		1	ignore			
				W>0.08	Not a	llowed				

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No	Inspection item	inspection criteria	defect grade
10.6.2.4	Glass defect	1. broken angle X 不计 Y≤2.0mm or X≤2.0mm Y 不计 Meanwhile Z <t 2.="" broken="" ignore="" ignore<="" meanwhile="" other="" part="" td="" x≤5.0mm="" y≤0.8mm="" z≤t=""><td>Minor defect</td></t>	Minor defect
10.6.2.5	Newton ring	1.regular Newton ring ① Newton ring area>1/3 T/P area; not acceptable. ② Newton ring area≤1/3 T/P area and doesn't affect the display result and no line distortion; acceptable 2. Non-regular Newton ring ① Newton ring area>1/2 T/P area, or no matter how big as long as it affects the display result; not acceptable Newton ring area≤1/2 T/P area, and doesn't affect the display result and witouth line distortion; acceptable	Minor defect

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NO	Inspection item	inspection criteria	defect grade
		 copper foil off, warping, crack and oxidation are not allowed FPC crack, break, serious scratch and crease are not allowed 	main defect
10.6.2.6	FPC	 if no special requirements, no release paper on double-sided adhesive FPC is not allowed. Slight creases and scratches not exposed from the copper foil and with no affect to appearance and function are allowed. if no special requirements, no insulating tape at welding part on backlight and touch-screen is not allowed. Parts off, breakage and deform are not allowed. print on the surface should be clear and correct. 	Minor defect
10.6.2.7	basic appearance requirements	 clean appearance, no dirt, fingerprints and other traces. ITO circuit on COG coating area should not be exposed. Rust, sever scratch, deformation, obvious burrs and color dirt are not allowed. Mis-assembly, part missing are not allowed. Bubble caused by mis-pasted polaroid refers to 10.6.2.1 For watermark, the criteria is upon agreed by both parties. 	Minor defect

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10.6.3 electric defect

No	Inspection item	inspection criteria	defect grade
10.6.3.1	picture defect	Non-display, more or less image and display defect are not allowed.	main defect
10.6.3.2	bright/dark line	Not allowed.	main defect
10.6.3.3	display dot defect	 one dot is acceptable. Under bright status, 2 dark dots with more than 5mm distance is allowed. Totally 2 bright or dark dots are acceptable. The other defect under bright status refers to 10.6.2.1 Note: Electric bright/dark dot means one pixel; less than 1/2 of 1 pixel can be ignored. 	Minor defect
10.6.3.4	connected dot/line defect	 Two continuous defect pixel connected dots are not allowed. Line defect refers to 10.6.2.2 	Minor defect
10.6.3.5	wrong view direction	Wrong view directions, such as opposite view angle, are not allowed.	main defect
10.6.3.6	back light defect	 Backlight off are not allowed. Uneven light, dead light, flicker light, dark angle, light leakage are not allowed. Brightness should comply with drawing 	main defect

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