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SPECIFICATION

Product Model: PV0502LZR40D

DESIGNED	CHECKED	Approved
研发部	研发部	研发部
2018.02.28	2018.02.28	2018.02.28
Aleck	Hones	Mike

Approval by Customer:

Ok	
NG, Problem	survey
	Approved By





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Revision Record

REV NO.	REV DATE	CONTENTS	Note
V0	2018.02.28	NEW ISSUE	



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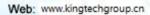




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1. Scope

This specification defines general provisions as well as inspection standards for TFT module supplied by Kingtech Group Co.,Ltd.

If the event of unforeseen problem or unspecified items may occur, naturally shall negotiate and agree to solution

2. General Information LCM

ITEM	STANDARD VALUES	UNITS
LCD type	5.0"TFT	
Dot arrangement	800 (RGB)×480	dots
Color filter array	RGB vertical stripe	
Display mode	Normally white TN	-
Gray Scale Inversion Direction	6 O'clock	
Eyes Viewing Direction	12 O'clock	
Driver IC	ILI6122+ILI5960	
Module size	120.7(W)×75.8(H)×2.9(T)	mm
Active area	108(W)×64.80(H)	mm
Dot pitch	0.135(W)×0.135(H)	mm
Interface	24-bit Parallel RGB Interface	
Operating temperature	-20 ~ +70	°C
Storage temperature	-30 ~ +80	°C
Back Light	12 White LED	
Weight	TBD	g





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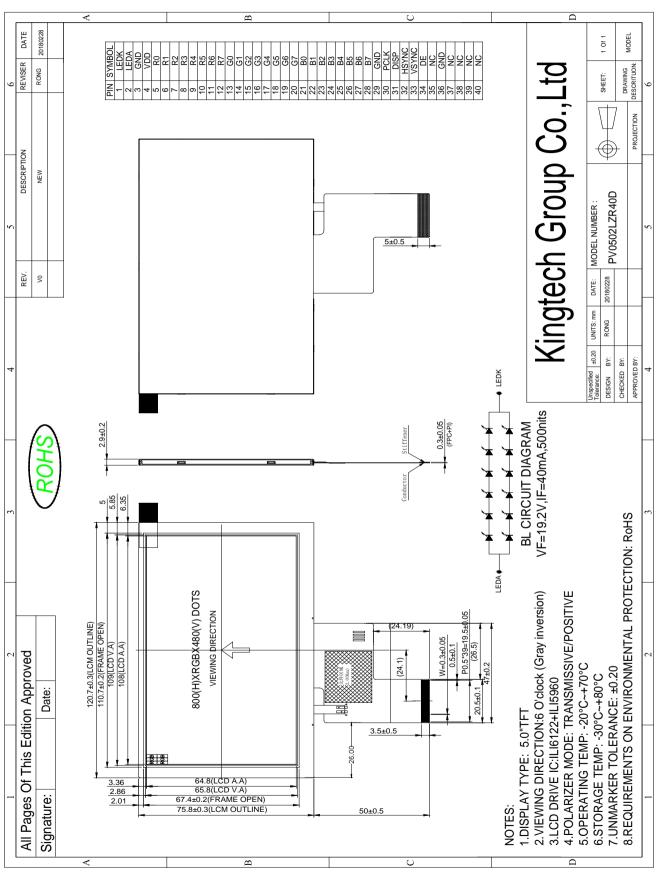
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3. External Dimensions





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4. Interface Description

PIN NO.	PIN NAME	DESCRIPTION
1	LEDK	LED backlight (Cathode).
2	LEDA	LED backlight (Anode).
3	GND	Ground.
4	VDD	Power supply.
5~12	R0~R7	Red Data
13~20	G0~G7	Green Data
21~28	B0~B7	Blue Data
29	GND	Ground.
30	DCLK	Clock
31	DISP	Display on/off
32	HSYNC	Horizontal sync input in RGB mode.
33	VSYNC	Vertical sync input in RGB mode.
34	DE	Data enable input. Active high to enable the input data bus.
35	NC	No connection
36	GND	Ground.
37~40	NC	No connection.

5. Absolute Maximum Ratings

. Abbolato maximam Ratingo								
ltem	Symbol	Min.	Max.	Unit				
Logic Supply Voltage	VDD	-0.5	5.0	V				
Input Voltage	Vin	-0.3	VDD +0.3	V				
Operating Temperature	Тор	-20	70	°C				
Storage Temperature	Тѕт	-30	80	°C				
Storage Humidity	HD	20	90	%RH				

6. DC Characteristics

Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Logic Supply Voltage	VDD	3.0	3.3	3.6	V	-
Input High Voltage	V_{IH}	0.7VDD	-	VDD	V	-
Input Low Voltage	V _{IL}	GND	-	0.3 VDD	V	-
Output High Voltage	V_{OH}	VDD-0.4	-	VDD	V	-
Output Low Voltage	V_{OL}	GND	-	GND+0.4	V	-
I/O Leak Current	lu	-1	ı	1	uA	-
Supply Current	IDD	-	7.0	10	mA	-

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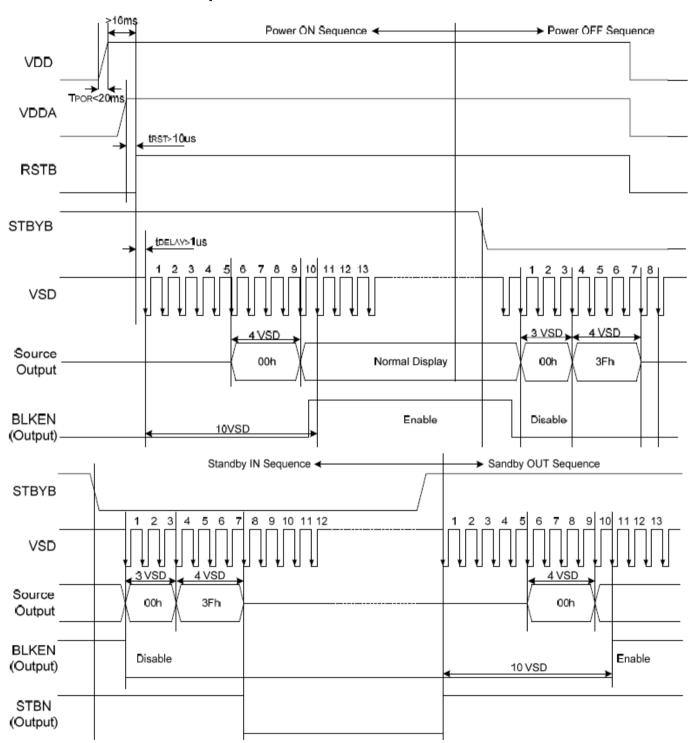
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7. Timing Characteristics

7.1. Power ON/OFF Sequence



Power on sequence (VDD→VEE→VGH)



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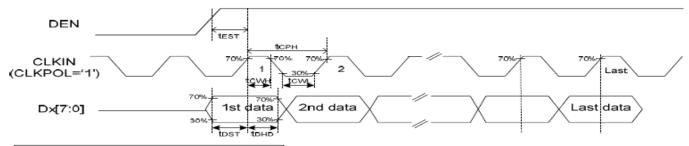
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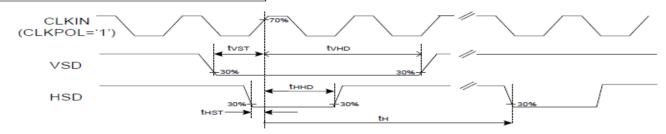


7.2 AC Timing characteristics

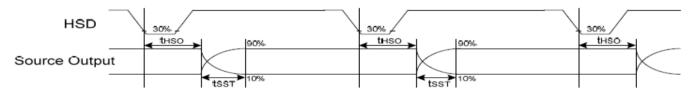
DE Mode (MODE='1')



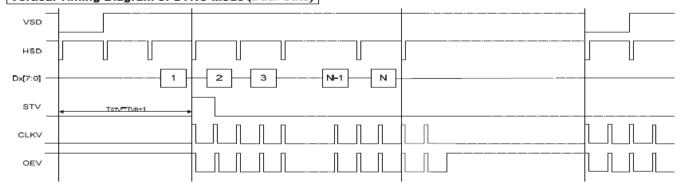
SYNC Mode (MODE='0')



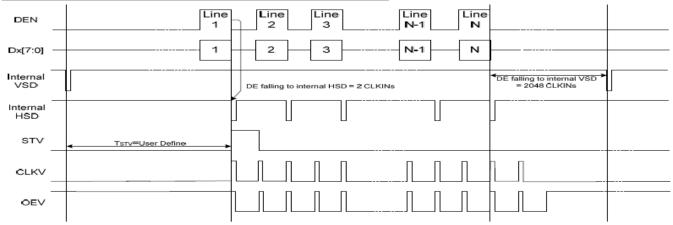
Source Output timing Diagram (Cascade)



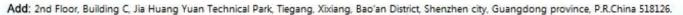
Vertical Timing Diagram of SYNC Mode (Dual Gate)



Vertical Timing Diagram of DE Mode (Dual Gate)







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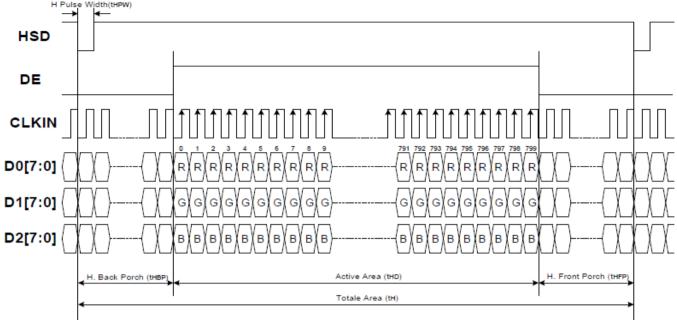
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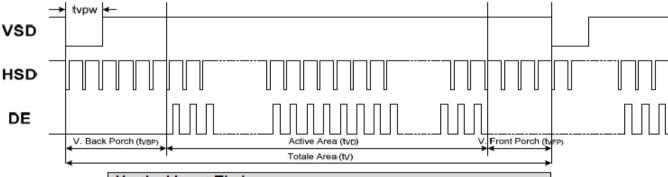
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7.3Display Timing characteristics(Resolution: 800x480)



Horizontal Input Timing							
Doromotor		Symbol		Value			
Parame	Parameter		Min.	Typ.	Max.	Unit	
Horizontal disp	olay area	t _{HD}		800		CLKIN	
CLKIN freq	uency	f _{CLK}		33.3	50	MHz	
1 Horizontal lir	1 Horizontal line period		862	1056	1200	CLKIN	
LIODI	Min.	t _{HPW}		1		CLKIN	
HSD pulse width	Typ.					CLKIN	
widiii	Max.			40		CLKIN	
HSD back porch	SYNC t _{HBP}		46	46	46	CLKIN	
HSD front porch	SYNC	t _{HFP}	16	210	354	CLKIN	



Vertical Input Timing							
Parameter	Symbol		Unit				
Farameter	Syllibol	Min.	Тур.	Max.	5		
Vertical display area	t _{VD}		480		HSD		
VSD period time	t _v	510	525	650	HSD		
VSD pulse width	t _{VPW}	1		20	HSD		
VSD back porch	t _{VBP}	23	23	23	HSD		
VSD front porch	t _{VFP}	7	22	147	HSD		



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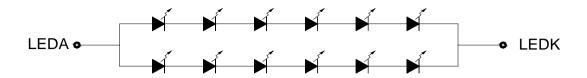
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8. Backlight Characteristic



Item	Symbol	MIN	TYP	MAX	UNIT	Test Condition
Supply Voltage	Vf	17.4	19.2	21.0	V	If=40mA
Supply Current	If	-	40	-	mA	
Luminous Intensity for LCM	-	400	500	-	cd/m ²	If=40mA
Uniformity for LCM	-	80	-	-	%	If=40mA
Life Time	-	20000	50000	ı	Hr	If=40mA
Backlight Color	White					

9. Optical Characteristics

Item	Conditions		Min.	Тур.	Max.	Unit	Note	
	Horizontal	θL	-	70	-			
Viewing Angle	Honzontai	θR	-	70	-	d = = = = =	(4) (2) (6)	
(CR>10)	Vertical	θт	-	50	-	degree	(1),(2),(6)	
	verticai	θв	-	70	-			
Contrast Ratio	Center		400	500	-	-	(1),(3),(6)	
Response Time	Rising		-	10	20	ms	(1),(4),(6)	
	Falling		-	15	30			
	Red x			TBD		-		
	Red y			TBD		-		
	Green x			TBD	Typ. +0.05	-		
CF Color	Green y			TBD		-	(4) (6)	
Chromaticity (CIE1931)	Blue x		Тур.	TBD		-	(1), (6)	
	Blue y		-0.05	TBD		-		
	White x			TBD		-		
	White y			TBD]	-		
NTSC			-	61.	-	%	(1),(6)	

Note (1) Measurement Setup: The LCD module should be stabilized at given temp. 25°C for 15 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting backlight for 15 minutes in a windless room.

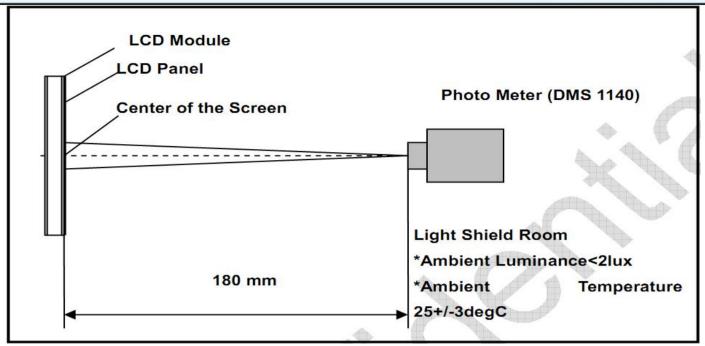
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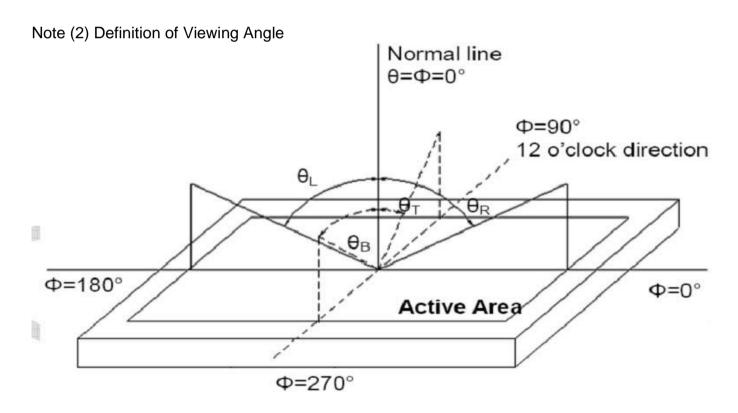
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Note (3) Definition of Contrast Ratio (CR)

The contrast ratio can be calculated by the following expression Contrast Ratio (CR) = L63 / L0

L63: Luminance of gray level 63, L0: Luminance of gray level 0

Note (4) Definition of response time



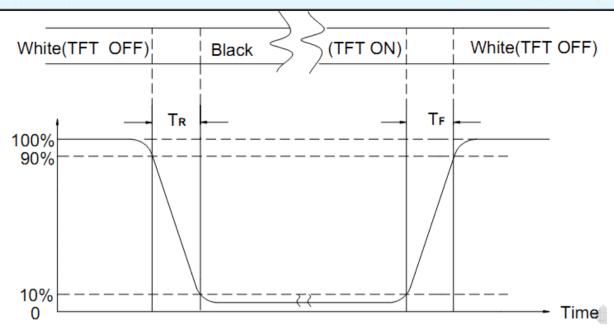
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Note (5) Definition of Transmittance (Module is without signal input)

Transmittance = Center Luminance of LCD / Center Luminance of Back Light x 100%

Note (6) Definition of color chromaticity (CIE1931)

Color coordinates measured at the center point of LCD



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10. Reliability Test Conditions and Methods

NO.	TEST ITEMS	TEST CONDITION	INSPECTION AFTER TEST
1	High Temperature Storage	80°C±2°C×96Hours	
2	Low Temperature Storage	-30°C±2°C×96Hours	
3	High Temperature Operating	70°C±2°C×96Hours	
4	Low Temperature Operating	-20°C±2°C×96Hours	Inspection after 2~4hours storage at room temperature, the samples
\$	Temperature Cycle(Storage)	-20°C \Longrightarrow 25°C \Longrightarrow 70°C (30min) 1cycle Total 10cycle	should be free from defects: 1, Air bubble in the LCD. 2, Seal leak. 3, Non-display. 4, Missing segments.
6	Damp Proof Test (Storage)	50°C±5°C×90%RH×96Hours	5, Glass crack.6, Current IDD is twice
7	Vibration Test	Frequency:10Hz~55Hz~10Hz Amplitude:1.5MM X,Y,Z direction for total 3hours (packing condition test will be tested by a carton)	higher than initial value. 7, The surface shall be free from damage. 8, The electric characteristic requirements shall be satisfied.
8	Drooping Test	Drop to the ground from 1M height one time every side of carton. (packing condition test will be tested by a carton)	ondi de dationed.
9	ESD Test	Voltage:±8KV,R:330Ω,C:150PF,Air Mode,10times	

REMARK:

- 1, The Test samples should be applied to only one test item.
- 2, Sample side for each test item is 5~10pcs.
- 3, For Damp Proof Test, Pure water(Resistance $> 10 \text{M}\Omega$) should be used.
- 4,In case of malfunction defect caused by ESD damage, if it would be recovered to normal state after resetting, it would be judge as a good part.
- 5, EL evaluation should be accepted from reliability test with humidity and temperature: Some defects such as black spot/blemish can happen by natural chemical reaction with humidity and Fluorescence EL has.
- 6, Failure Judgment Criterion: Basic Specification Electrical Characteristic, Mechanical Characteristic, Optical Characteristic.



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11. Inspection Standard

11.1. QUALITY:

THE QUALITY OF GOODS SUPPLIED TO PURCHASER SHALL COME UP TO THE FOLLOWING STANDARD.

11.1.1. THE METHOD OF PRESERVING GOODS

AFTER DELIVERY OF GOODS FROM AMSON TO PURCHASER. PURCHASER SHALL CONTROL THE LCM AT -10 °C TO 40 °C ,AND IT MIGHT BE DESIRABLE TO KEEP AT THE NORMAL ROOM TEMPERATURE AND HUMIDITY UNTIL INCOMING INSPECTION OR THROWING INTO PROCESS LINE.

11.1.2. INCOMING INSPECTION

(A) THE METHOD OF INSPECTION

IF PURCHASER MAKE AN INCOMING INSPECTION, A SAMPLING PLAN SHALL BE APPLIED ON THE CONDITION THAT QUALITY OF ONE DELIVERY SHALL BE REGARDED AS ONE LOT.

(B) THE STANDARD OF QUALITY

ISO-2859-1 (SAME AS MIL-STD-105E), LEVEL II SINGLE PLAN.

CLASS	AQL(%)
CRITICAL	0.4 %
MAJOR	0.65 %
MINOR	1.5 %
TOTAL	1.5 %

EVERY ITEM SHALL BE INSPECTED ACCORDING TO THE CLASS.

(C) MEASURE

IF AS THE RESULT OF ABOVE RECEIVING INSPECTION, A LOT OUT IS DISCOVERED. PURCHASER SHALL BE INFORM SELLER OF IT WITHIN SEVEN DAYS. BUT FIRST SHIPMENT WITHIN FOURTEEN DAYS.

11.1.3. WARRANTY POLICY

AMSON WILL PROVIDE ONE-YEAR WARRANTY FOR THE PRODUCTS ONLY IF UNDER SPECIFICATION OPERATING CONDITIONS. AMSON WILL REPLACE NEW PRODUCTS FOR THESE DEFECT PRODUCTS WHICH UNDER WARRANTY PERIOD AND BELONG TO THE RESPONSIBILITY OF AMSON.

11.2. CHECKING CONDITION

- 11.2.1.CHECKING DIRECTION SHALL BE IN THE 45 DEGREE AREA TO FACE THE SAMPLE.
- 11.2.2. CHECKER SHALL SEE OVER 300±25 mm. WITH BARE EYES FAR FROM SAMPLE AND USING 2 PCS. OF 20W FLUORESCENT LAMP.

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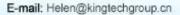


11.3. INSPECTION PLAN:

TI.S. INSPEC	HON PLAN :		
CLASS	ITEM	JUDGEMENT	CLASS
PACKING &	OUTSIDE AND INSIDE PACKAGE	"MODEL NO.", "LOT NO." AND "QUANTITY" SHOULD INDICATE ON THE PACKAGE.	Minor
INDICATE	2. MODEL MIXED AND QUANTITY	OTHER MODEL MIXEDREJECTED QUANTITY SHORT OR OVERREJECTED	
	3. PRODUCT INDICATION "MODEL NO." SHOULD INDICATE ON THE PRODUCT		Major
	4. DIMENSION,	ACCORDING TO SPECIFICATION OR	
ASSEMBLY	LCD GLASS SCRATCH	DRAWING.	Major
	AND SCRIBE DEFECT.		,
	5. VIEWING AREA	POLARIZER EDGE OR LCD'S SEALING LINE IS VISABLE IN THE VIEWING AREAREJECTED	Minor
	6. BLEMISH - BLACK SPOT -	ACCORDING TO STANDARD OF VISUAL	Minor
	WHITE SPOT IN THE LCD	INSPECTION(INSIDE VIEWING AREA)	
	AND LCD GLASS CRACKS		
	7. BLEMISH - BLACK SPOT	ACCORDING TO STANDARD OF VISUAL	Minor
APPEARANCE	WHITE SPOT AND SCRATCH	INSPECTION(INSIDE VIEWING AREA)	
	ON THE POLARIZER		
	8. BUBBLE IN POLARIZER	ACCORDING TO STANDARD OF VISUAL	Minor
		INSPECTION(INSIDE VIEWING AREA)	
	9. LCD'S RAINBOW COLOR	STRONG DEVIATION COLOR (OR NEWTON	
		RING) OF LCDREJECTED.	Minor
		OR ACCORDING TO LIMITED SAMPLE	
		(IF NEEDED, AND INSIDE VIEWING AREA)	
	10. ELECTRICAL AND OPTICAL	ACCORDING TO SPECIFICATION OR	Critical
	CHARACTERISTICS	DRAWING . (INSIDE VIEWING AREA)	
	(CONTRAST: VOP:		
	CHROMATICITY ETC)		
ELECTRICAL	11.MISSING LINE	MISSING DOT. LINE . CHARACTER	Critical
		REJECTED	
	12.SHORT CIRCUIT	NO DISPLAY - WRONG PATTERN	Critical
	WRONG PATTERN DISPLAY	DISPLAY · CURRENT CONSUMPTION	
		OUT OF SPECIFICATION REJECTED	
	13. DOT DEFECT (FOR COLOR AND TFT)	ACCORDING TO STANDARD OF VISUAL	Minor
		INSPECTION	
	•		

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11.4. STANDARD OF VISUAL INSPECTION

NO.	CLASS	ITEM	JUDGEMENT		
			(A) ROUND TYPE: unit : mm.		
			DIAMETER (mm.) ACCEPTABLE Q'TY		
		BLACK AND WHITE SPOT FOREIGN MATERIEL DUST IN THE CELL BLEMISH SCRATCH	Φ \leq 0.1 DISREGARD		
			$0.1 < \Phi \leq 0.25$ 3 (Distance>5mm)		
			0.25 < Φ 0		
11.4.1	MINOR		NOTE: Φ=(LENGTH+WIDTH)/2		
2.032.007	-38/26/34/74/34/60		(B) LINEAR TYPE: unit : mm.		
			LENGTH WIDTH ACCEPTABLE Q'TY		
			W ≤0.03 DISREGARD		
			L ≤ 5.0 0.03 < W ≤ 0.07 3 (Distance>5mm) 0.07 < W FOLLOW ROUND TYPE		
			0.07 < W FOLLOW ROUND TYPE		
			unit : mm.		
		BUBBLE IN POLARIZER DENT ON POLARIZER	DIAMETER ACCEPTABLE Q'TY		
			$\Phi \leq 0.2$ DISREGARD		
11.4.2	MINOR		$0.2 < \Phi \leq 0.5$ 2 (Distance>5mm)		
			0.5 < Φ 0		
\vdash					
	MINOR	Dot Defect	Items ACC. Q'TY		
			Bright dot N≦ 4		
			Dark dot N≦ 4		
			Pired Define		
			Pixel Define : Pixel ——		
			R G B		
11.4.3					
			◆ Dot → ◆ Dot →		
			Note 1: The definition of dot: The size of a defective dot over		
			1/2 of whole dot is regarded as one defective dot.		
			Note 2: Bright dot: Dots appear bright and unchanged in size		
			in which LCD panel is displaying under black pattern.		
			Note 3: Dark dot: Dots appear dark and unchanged in size in		
			which LCD panel is displaying under pure red, green ,blue pattern.		
			, and pattern		

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NO.	CLASS	ITEM	JUDGEMEN	Т
11.4.4	MINOR	LCD GLASS CHIPPING	S	Y > S Reject
11.4.5	MINOR	LCD GLASS CHIPPING	SX	X or Y > S Reject
11.4.6	MAJOR	LCD GLASS GLASS CRACK	Y Y	Y > (1/2) T Reject
11.4.7	MAJOR	LCD GLASS SCRIBE DEFECT	A + B	1. a> L/3 , A>1.5mm. Reject 2. B: ACCORDING TO DIMENSION
11.4.8	MINOR	LCD GLASS CHIPPING (ON THE TERMINAL AREA)	T	$\Phi = (x+y)/2 > 2.5 \text{ mm}$ Reject
11.4.9	MINOR	LCD GLASS CHIPPING (ON THE TERMINAL SURFACE)	TZX	Y > (1/3) T Reject
11.4.10	MINOR	LCD GLASS CHIPPING	T Z	Y > T Reject



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12. Handling Precautions

12.1 Mounting method

The LCD panel of Kingtech TFT module consists of two thin glass plates with polarizes which easily be damaged. And since the module in so constructed as to be fixed by utilizing fitting holes in the printed circuit board.

Extreme care should be needed when handling the LCD modules.

12.2 Caution of LCD handling and cleaning

When cleaning the display surface, Use soft cloth with solvent

[Recommended below] and wipe lightly

- Isopropyl alcohol
- Ethyl alcohol

Do not wipe the display surface with dry or hard materials that will damage the polarizer surface.

Do not use the following solvent:

- Water
- Aromatics

Do not wipe ITO pad area with the dry or hard materials that will damage the ITO patterns Do not use the following solvent on the pad or prevent it from being contaminated:

- Soldering flux
- Chlorine (CI), Sulfur (S)

If goods were sent without being silicon coated on the pad, ITO patterns could be damaged due to the corrosion as time goes on.

If ITO corrosion happen by miss-handling or using some materials such as Chlorine (CI), Sulfur (S) from customer, Responsibility is on customer.

12.3 Caution against static charge

The LCD module use C-MOS LSI drivers, so we recommended that you:

Connect any unused input terminal to power or ground, do not input any signals before power is turned on, and ground your body, work/assembly areas, and assembly equipment to protect against static electricity.

12.4 packing

- Module employs LCD elements and must be treated as such.
- Avoid intense shock and falls from a height.
- To prevent modules from degradation, do not operate or store them exposed direct to sunshine or high temperature/humidity

12.5 Caution for operation

- It is an indispensable condition to drive LCD's within the specified voltage limit since the higher voltage then the limit cause the shorter LCD life.
- An electrochemical reaction due to direct current causes LCD's undesirable deterioration, so that the use of direct current drive should be avoided.
- Response time will be extremely delayed at lower temperature then the operating temperature range and on the other hand at higher temperature LCD's how dark color in them. However those phenomena do not mean malfunction or out of order with LCD's, which will come back in the specified operation temperature.
- If the display area is pushed hard during operation, some font will be abnormally displayed but it resumes normal condition after turning off once.
- Slight dew depositing on terminals is a cause for electro-chemical reaction resulting in terminal open circuit.

Usage under the maximum operating temperature, 50%Rh or less is required.

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12.6 storing

In the case of storing for a long period of time for instance, for years for the purpose or replacement use, the following ways are recommended.

- Storage in a polyethylene bag with the opening sealed so as not to enter fresh air outside in it. And with no desiccant.
- Placing in a dark place where neither exposure to direct sunlight nor light's keeping the storage temperature range.
- Storing with no touch on polarizer surface by the anything else.
 [It is recommended to store them as they have been contained in the inner container at the time of delivery from us

12.7 Safety

- It is recommendable to crash damaged or unnecessary LCD's into pieces and wash off liquid crystal by either of solvents such as acetone and ethanol, which should be burned up later.
- When any liquid leaked out of a damaged glass cell comes in contact with your hands, please wash it off well with soap and water

13. Precaution for Use

13.1

A limit sample should be provided by the both parties on an occasion when the both parties agreed its necessity. Judgment by a limit sample shall take effect after the limit sample has been established and confirmed by the both parties.

13.2

On the following occasions, the handing of problem should be decided through discussion and agreement between responsible of the both parties.

- When a question is arisen in this specification
- When a new problem is arisen which is not specified in this specifications
- When an inspection specifications change or operating condition change in customer is reported to Kingtech TFT, and some problem is arisen in this specification due to the change
- When a new problem is arisen at the customer's operating set for sample evaluation in the customer site.

14. Packing Method

TBD