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SPECIFICATION

Product Model: PV04308LZR40H

DESIGNED	CHECKED	Approved
研发部	研发部	研发部
2020.03.05	2020.03.05	2020.03.05
Aleck	Hones	Mike

Approval by Customer:

Ok

NG, Problem survey

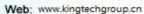
Approved By_____

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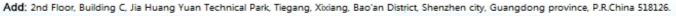




Revision Record

REV NO.	REV DATE	CONTENTS	Note
V0	2020.09.15	NEW ISSUE	

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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

TFT

ITEM	STANDARD VALUES	UNITS
LCD type	4.3"TFT	
Dot arrangement	480(RGB)×272	dots
Color filter array	RGB vertical stripe	
Display mode	TN / Transmission / Normally White	-
Gray Scale Inversion Direction	6 O'clock	
Eyes Viewing Direction	12 O'clock	
Driver IC	ST7282	
Module size	105.5(W)×67.3(H)×3.0(T)	mm
Active area	95.04(W)×53.85(H)	mm
Interface	24bit RGB	
Operating temperature	-20 ~ +70	°C
Storage temperature	-30 ~ +80	°C
Back Light	16 White LED	
Weight	TBD	g

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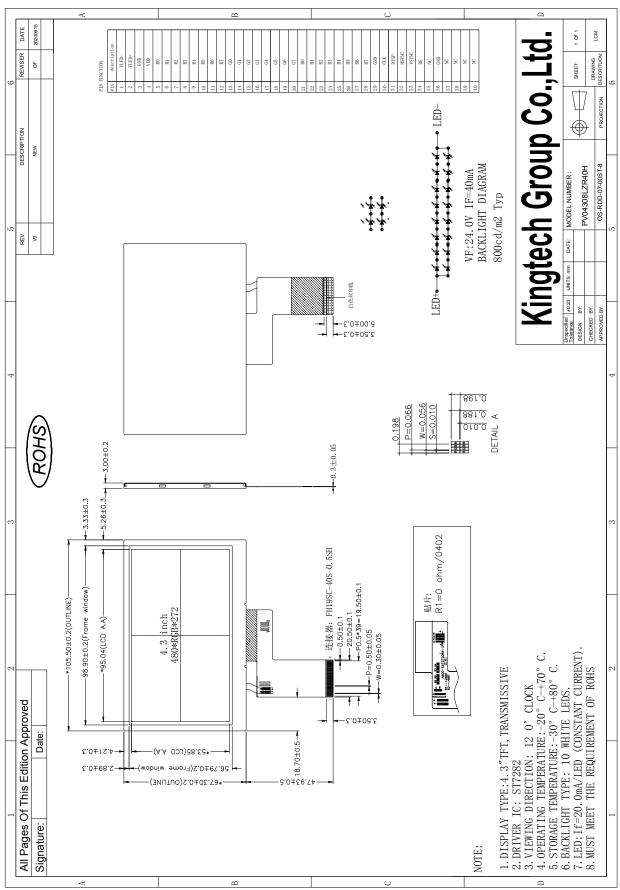


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3. External Dimensions



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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 for logic.
4	VDD	Power supply for voltage
5-12	R0-R7	Red Data.
13-20	G0-G7	Green Data.
21-28	B0-B7	Blue Data.
29	GND	Ground for logic.
30	CLK	Dot clock signal input. Latching input data at its rising edge.
31	DISP	Display on/off.
32	HSYNC	Horizontal sync input. Negative polarity.
33	VSYNC	Vertical sync input. Negative polarity.
34	DE	Data enable input. Active high to enable the input data bus.
35	NC	No connection
36	GND	Ground for logic.
37	NC	NC.
38	NC	NC.
39	NC	NC.
40	NC	NC.

24-bit :R1=00hm R3/R4/R5/R6 NC

8-bit: R2 NC

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5. Absolute Maximum Ratings

Item	Symbol	Min.	Max.	Unit
Analog Supply Voltage	VDD	-0.3	4.0	V
Input Voltage	Vin	-0.3	VDD+0.3	V
Operating Temperature	Тор	-20	70	٥°
Storage Temperature	Тѕт	-30	80	٥°
Storage Humidity	HD	20	90	%RH

6. DC Characteristics

<u> </u>						
Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Analog Supply Voltage	VCC	2.5	2.8	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}	0.8 VDD	-	VDD	V	-
Output Low Voltage	V _{OL}	GND	-	0.2 VDD	V	-
I/O Leak Current	ILI	-1	-	1	uA	-
Supply Current	IDD	-	TBD	-	mA	-

7. Timing Characteristics

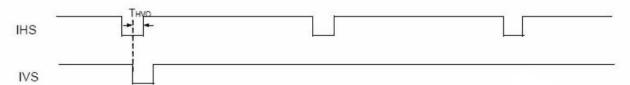
7.1 Parallel RGB Interface Timing Characteristics

Hsync and Vsync timing

CCIR601 timing waveform VS_POL=H, HS_POL=L in Register R2)

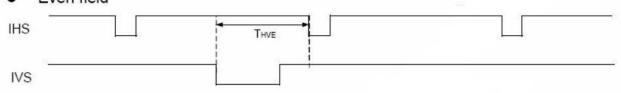
IHS and IVS timing

Odd field



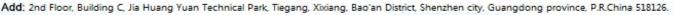
IHS and IVS waveforms in odd field

Even field



IHS and IVS waveforms in even field

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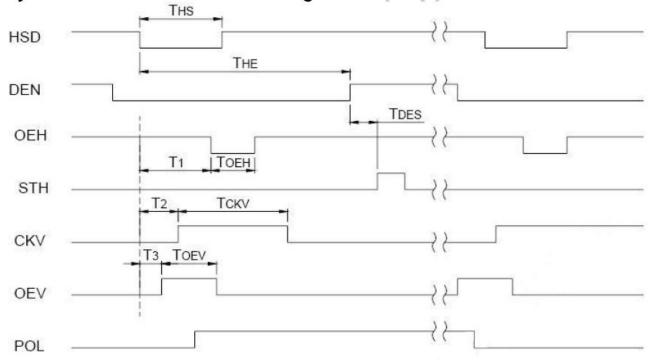
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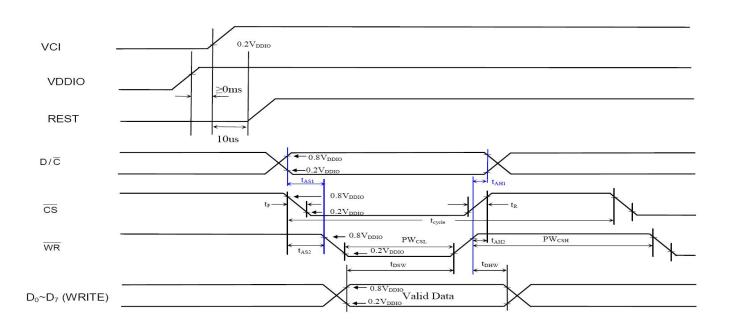
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Hsync and horizontal control timing waveform



Hsync and vertical shift clock timing waveform



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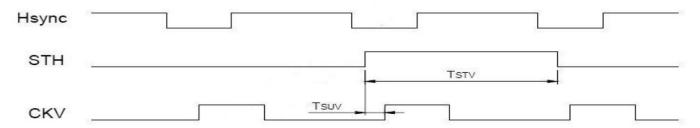


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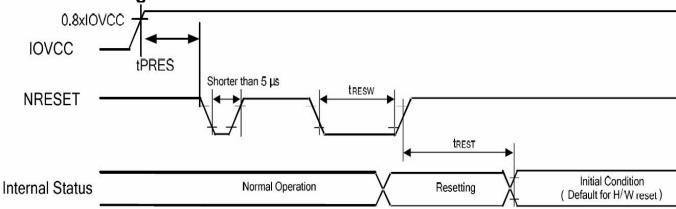
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7.2 Reset Timing Characteristics



Symbol	Parameter	Related		Spec.		Note	Unit
Symbol	raiailletei	Pins	Min.	Тур.	Max.	Note	Oilit
tRESW	Reset low pulse width ⁽¹⁾	NRESET	10		-		μs
tREST	Reset complete time ⁽²⁾	-	5	-		When reset applied during STB OUT mode	ms
IKEST	Reset complete time	-	120	-5		When reset applied during STB mode	ms
tPRES	Reset goes high level after Power on time	NRESET & IOVCC	10)? <u> </u>	Reset goes high level after Power on	ms

8. Backlight Characteristic

Item	Symbol	MIN	TYP	MAX	UNIT	Test Condition
Supply Voltage	Vf	21.6	24.0	26.4	V	If=40mA
Supply Current	If	-	40	-	mA	-
Luminous Intensity for LCM	-	700	800	-	cd/m ²	If=40mA
Uniformity for LCM	-	-	80	-	%	If=40mA
Life Time	-	-	50000	-	Hr	If=40mA
Backlight Color	White					

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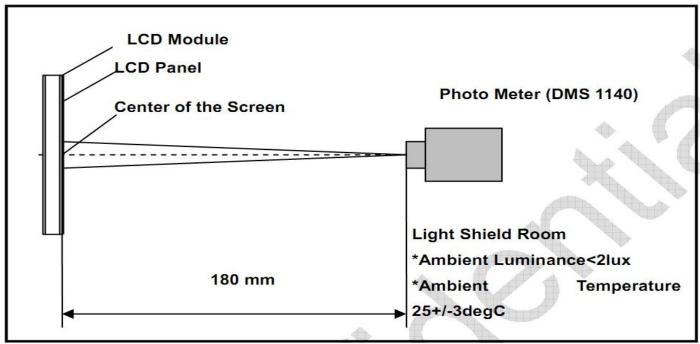
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9. Optical Characteristics

Item	Conditions		Min.	Тур.	Max.	Unit	Note
	Horizontal	θL		70	-		
Viewing Angle	Honzontai	θR		70	-	dograa	(1) (2) (6)
(CR>10)	Vertical	θт		50	-	degree	(1),(2),(6)
	Vertical	θв		70	-		
Contrast Ratio	Center		TBD	500	-	-	(1),(3),(6)
Response Time	Rising		_	25	_	ms	(1) (4) (6)
	Falling		-	25	-	ms	(1),(4),(6)
	Red x			0.5931		-	
	Red y			0.358		-	
	Green x Green y Blue x			0.3396		-	
CF Color				0.5880		-	(4) (6)
Chromaticity (CIE1931)			Typ.	0.1618	Тур.	-	(1), (6)
(31=1331)	Blue y	Blue y	-0.05	0.1390	+0.05	-	
	White x			0.3250		-	
	White y			0.3450		-	
NTSC	CIE1931		-	52	-	%	(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.



Note (2) Definition of Viewing Angle

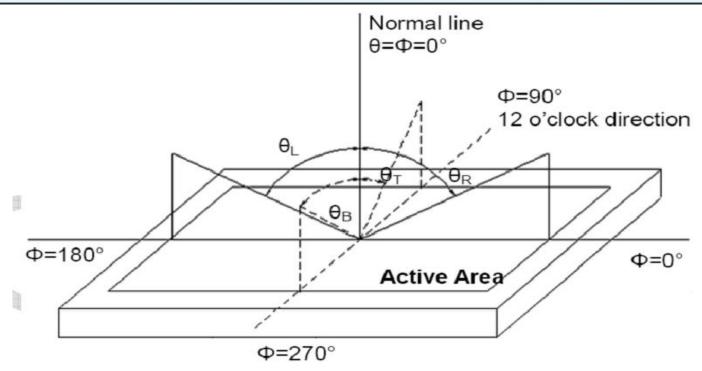
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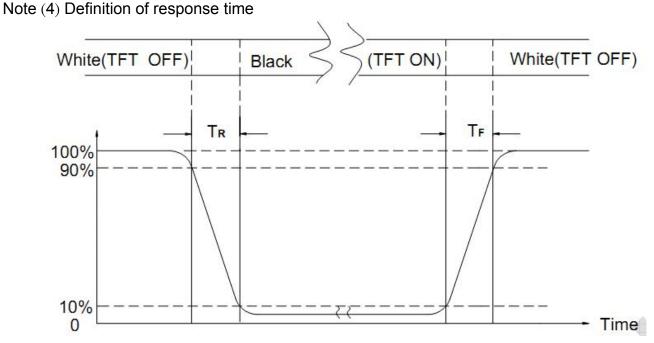




Note (3) Definition of Contrast Ratio (CR)

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 (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

10. Reliability Test Conditions and Methods

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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
(5)	Temperature Cycle(Storage)	$ \begin{array}{c} -20^{\circ}\text{C} & \longrightarrow 25^{\circ}\text{C} & \longrightarrow 70^{\circ}\text{C} \\ (30\text{min}) & (5\text{min}) & (30\text{min}) \\ & & & & & & \\ & & & & & & \\ & & & & &$	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:1.5M 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,Ai r 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 $> 10M\Omega$)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.

11. Inspection Standard

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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.

Carried Control of Con	
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.

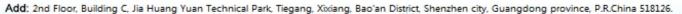
11.1.3. WARRANTY POLICY

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:

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

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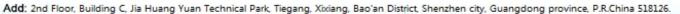
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11.4	1.4. STANDARD OF VISUAL INSPECTION					
NO.	CLASS	ITEM	JUDGEMENT			
		BLACK AND WHITE SPOT	(A) ROUND TYPE: unit : mm.			
			DIAMETER (mm.) ACCEPTABLE Q'TY			
			$\Phi \leq 0.1$ DISREGARD			
			$0.1 < \Phi \leq 0.25$ 3 (Distance>5mm)			
			0.25 < Φ 0			
11.4.1	MINOR	DUST IN THE CELL	NOTE: Φ=(LENGTH+WIDTH)/2			
A. C. M. C. C. C.		BLEMISH	(B) LINEAR TYPE: unit : mm.			
		SCRATCH	LENGTH WIDTH ACCEPTABLE Q'TY	\dashv		
			W ≤0.03 DISREGARD			
			L ≤ 5.0 0.03 < W ≤ 0.07 3 (Distance>5mm)	-		
			0.07 < W FOLLOW ROUND TYP	E		
		<u> </u>	unit : mm.	\dashv		
			DIAMETER ACCEPTABLE Q'TY			
		BUBBLE IN POLARIZER DENT ON POLARIZER	$\Phi \leq 0.2$ DISREGARD			
11.4.2	MINOR		$0.2 < \Phi \leq 0.5$ 2 (Distance>5mm)			
			0.5 < Ф 0			
			Items ACC. Q'TY			
		Dot Defect	Bright dot N≤ 4			
			Dark dot N≦ 4			
			Pixel Define: 1. Divel			
			Pixel Define: Pixel ——			
			R G B			
11.4.3	MINOR					
			◆ 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.			

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NO.	CLASS	ITEM	JUDGEMEN	T [
11.4.4	MINOR	LCD GLASS CHIPPING	S 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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11.5 INSPECTION STANDARD OF TOUCH PANEL

NO.	CLASS		ITEMS	JUDGEMENT	
1.5.1	MAJOR	To	ouch Panel Crack		Reject
1.5.2	MINOR	Touch Panel	Corner	$X \le 2mm, Y \le 2mm, Z < 1/2T$	Accept
1.5.2	WINOR	Chipping	Edge	X ≤ 3mm, Y ≤ 3mm, Z < 1/2T	Accept
				W≦0.05, L≦20mm	Accept
11.5.3 MIN	MINOR	Scratch Dust and Foreign materiel (Linear Type)	0.05mm <w≦0.07mm; l≦10.0mm<br="">Distance between seratch>5.0mm</w≦0.07mm;>	Accept 3 ea Max.	
				W>0.07mm	Reject
11.5.4 MII	8	Scratch Dust and Foreign materiel (Round Type: ⊕=(Length+Width)/2)	Φ ≦ 0.25mm	Accept	
	MINOR		$0.25 mm < \Phi \le 0.35 mm$ Distance between spots $> 5.0 mm$	Accept 5 ea Max.	
			Φ>0.35mm	Reject	
				Φ ≤ 0.35mm	Accept
11.5.5	MINOR	INOR Touch Panel Dent / Fish Eyes		0.35mm< ⊕ ≦1.0mm Distance > 5.0mm	Accept 3 ea Max.
				Φ>1.0mm	Reject
				Φ ≤ 0.2mm	Accept
11.5.6	MINOR	R Touch Panel Air Bubble	0.2mm < Φ ≦ 0.5mm Distance between bubbles > 5.0mm	Accept 3 ea Max.	
				Φ > 0.5mm	Reject
11.5.7	MINOR	NOR Touch Panel Printing area Scratch	W≦0.05mm, L≦5mm Distance between scratch>5.0mm	Accept 3 ea Max.	
			W>0.05mm or L>5mm (W>0.05 Follow 11.5.4 Round type)	Reject	
1.5.8	MINOR	Touch Panel White Haze Mark / Dust		Can not be removed	Reject

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12. Handling Precautions

12.1 Mounting method

The LCD panel of KINGTECHTFT 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.

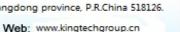
- When a question is arisen in this specification
- When a new problem is arisen which is not specified in this specifications
- When an inspection specifications change or operating condition change in customer is reported to KINGTECHTFT, and some problem is arisen in this specification due to the change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

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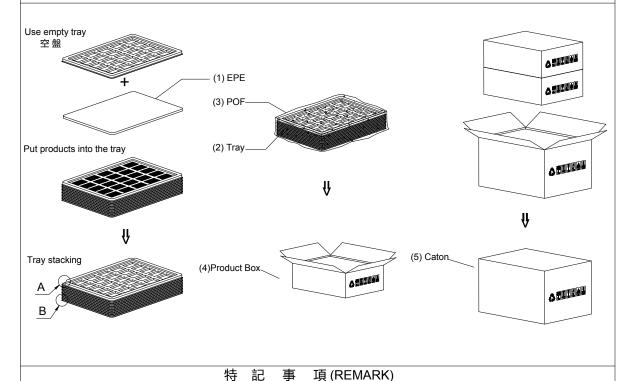
LCM包裝規格書

LCM Packaging Specifications

No.	Item	Dimensions (mm)	Quantity
1	成品 (LCM)	PV04308LZR40H	180
2	珍珠棉(1)EPE	340 X 240 X 2	30
3	TRAY ± R2)	350 X 250 X 13	32
4	多層薄膜(3)POF	19"X350X0.015	2
5	内盒(4)Product Box	358 X 259 X 143	2
6	外紙箱(5)Carton	395 X 295 X 316	1
7			
8			
9			

2. 單箱數量規格表 (Packaging Specifications and Quantity):

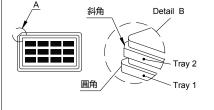
(1)LCM quantity per box : no. per tray x no. of tray 15 90 (2)Total LCM quantity in carton : no. of boxes 90 x quantity per box 180 2



特 記

1. Label Specifications: MODEL:

LOT NO: QUANTITY: CHECK:



Rotate tray 180 degrees and place on top of stack. Check the tray stack using Fig. B. TRAY盤相疊時,需旋轉180度,請詳見B視圖

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