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SPECIFICATION

Product Model: PV07002LZR40B-R1

Ok

NG, Problem survey

Approved By_____

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Revision Record

REV NO.	REV DATE	CONTENTS	Note
V0	2020.07.25	NEW ISSUE	

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1. Scope

This specification defines general provisions as well as inspection standards for TFT module supplied by KINGTECH.

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

2. General Information

TITEM	STANDARD VALUES	UNITS
LCD type	7.0"TFT	
Dot arrangement	800×3(RGB)×480	dots
Color filter array	RGB vertical stripe	
Display mode	TN / Transmissive / Normally white	-
Gray Scale Inversion Direction	6 o'clock	
Eyes Viewing Direction	12 O'clock	
Module size	164.9(W)×100(H)×7.0(T)	mm
Active area	154.08(W)×85.92(H)	mm
Dot pitch	0.1926(W)×0.1790(H)	mm
Interface	24-bit Parallel RGB Interface	
Operating temperature	-20 ~ +70	°C
Storage temperature	-30 ~ +80	°C
Back Light	21 White LED	
Weight	TBD	g

RTP

IXIT		
ITEM	STANDARD VALUES	UNITS
RTP type	Film + Glass + FPC	
Transmittance	≥78%	
RTP size	162.0(W)×97.1(H)×1.2(T)	mm
Active area	154.0(W)×88.8(H)	mm
Linearity	≤1.5%	%
Line writing life	30000	times
Operation force	50~120g	g
Resistance	E X:180Ω ~ 900Ω Y:180Ω ~ 900Ω	

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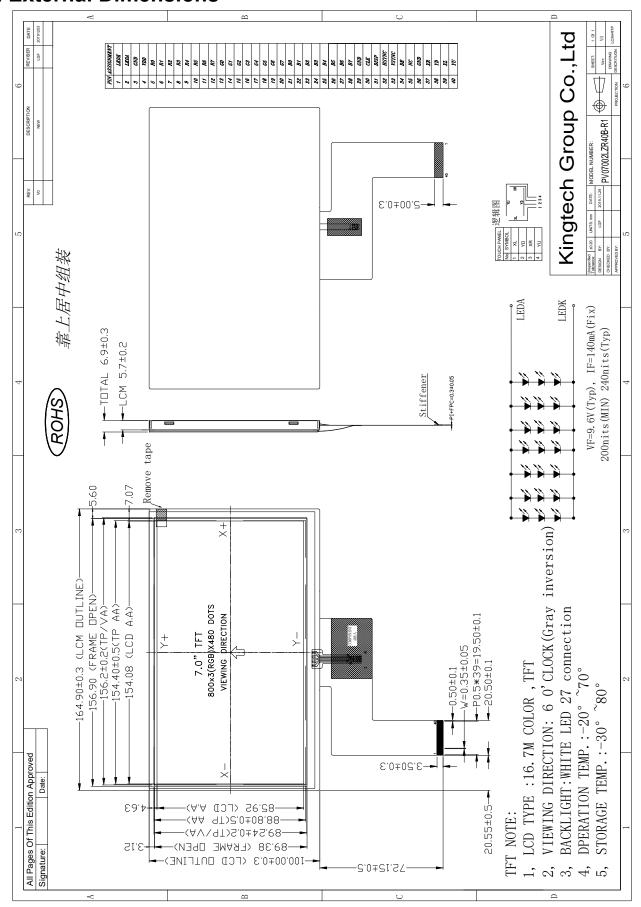
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3. External Dimensions



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4. Interface Description

1	LED-K	LED backlight (Cathode).
2	LED-A	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	XR	TP Right.
38	YD	TP Bottom.
39	XL	TP Left.
40	YU	TP Up.

5. Absolute Maximum Ratings

Item	Symbol	Min.	Max.	Unit
Digital Supply Voltage	VDD	-0.3	5.0	V
Operating Temperature	Тор	-20	70	°C
Storage Temperature	Тѕт	-30	85	°C
Storage Humidity	HD	20	90	%RH

6. DC Characteristics

Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Digital Supply Voltage	VDD	3.0	3.3	3.6	V	-
Logic Input Voltage	VIH	0.7DVDD	-	DVDD	V	-
Logic Input Voltage	VIL	GND	-	0.3DVDD	V	-

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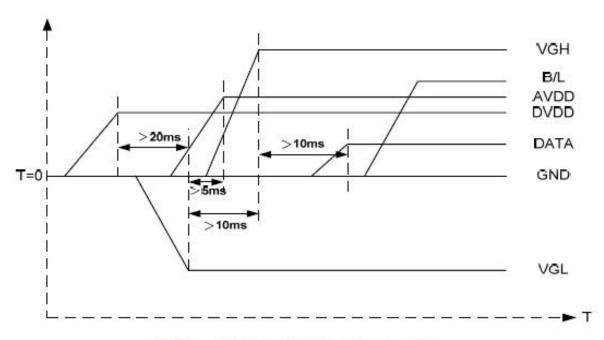
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7. Timing Characteristics

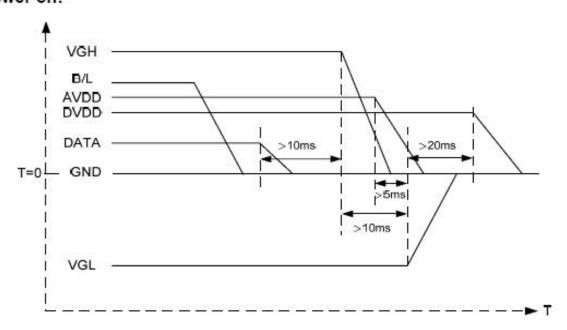
7.1 Power Sequence

a. Power on:



DV_{DD}→VGL→VGH→Data→B/L

b. Power off:



 $B/L \rightarrow Data \rightarrow VGH \rightarrow VGL \rightarrow DV_{DD}$

Note: Data include R0~R7, B0~B7, GO~G7, U/D, L/R, DCLK, HS,VS,DE.

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7.2 AC Electrical Characteristics

14	Complete		Values		Unit	
Item	Symbol	Min.	Тур.	Тур. Мах.		Remark
HS setup time	Thst	8	s		ns	
HS hold time	Thhd	8	@	2	ns	
VS setup time	Tvst	8	æ	- 5	ns	
VS hold time	Tvhd	8	ŀ	2	ns	
Data setup time	Tdsu	8	-	-	ns	
Data hole time	Tdhd	8	5	-	ns	
DE setup time	Tesu	8	2	-	ns	
DE hole time	Tehd	8	æ	- 74	ns	
DV _{DD} Power On Slew rate	Tpor	2	8	20	ms	From 0 to 90% DV _{DD}
RESET pulse width	TRst	1	1-	-	ms	
DCLK cycle time	Tooh	20	2	7.0	ns	
DCLK pulse duty	Town	40	50	60	%	

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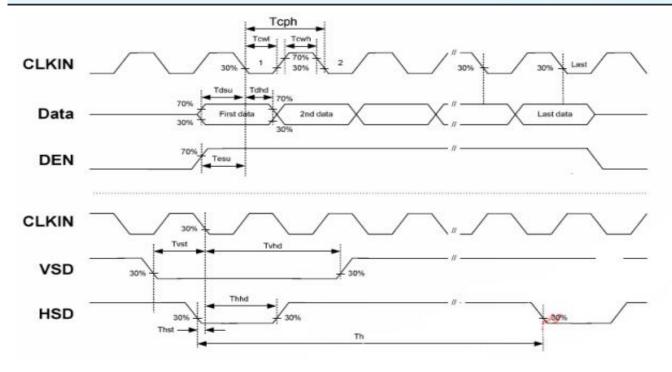
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7.3 Data Input Format

Horizontal input timing diagram



Vertial input timing diagram

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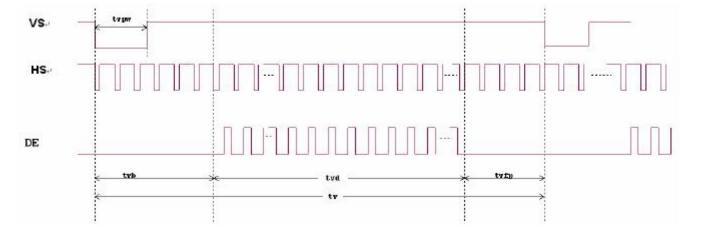
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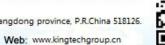


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7.4 Timing

Values			I I mile	Damank	
Symbol	Min. Typ.		Max.	Unit	Remark
thd	**	800	15 .5 1	DCLK	
fclk	26.4	33.3	46.8	MHz	
th	862	1056	1200	DCLK	
thpw	1	572	40	DCLK	
thb	46	46	46	DCLK	
thfp	16	210	354	DCLK	
	fclk th thpw thb	thd - fclk 26.4 th 862 thpw 1 thb 46	Min. Typ. thd - 800 fclk 26.4 33.3 th 862 1056 thpw 1 - thb 46 46	Min. Typ. Max. thd - 800 - fclk 26.4 33.3 46.8 th 862 1056 1200 thpw 1 - 40 thb 46 46 46	Min. Typ. Max. thd - 800 - DCLK fclk 26.4 33.3 46.8 MHz th 862 1056 1200 DCLK thpw 1 - 40 DCLK thb 46 46 46 DCLK

11		9.	Values			
Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Vertical Display Area	tvd	-	480	-	TH	
VS period time	tv	510	525	650	TH	
VS pulse width	tvpw	1	_	20	TH	
VS Blanking	tvb	23	23	23	TH	
VS Front Porch	tvfp	7	22	147	TH	

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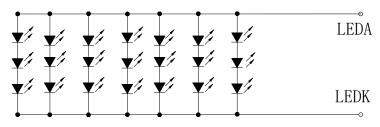
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8. Backlight Characteristic



Item	Symbol	MIN	TYP	MAX	UNIT	Test Condition
Supply Voltage	Vf	8.7	9.6	10.5	V	If=180mA
Supply Current	If	-	140	-	mA	-
Luminous Intensity for LCM	-	200	240	-	cd/m ²	If=180mA
Uniformity for LCM	-	80	-	-	%	If=180mA
Life Time	-	-	50000	-	Hr	If=180mA
Backlight Color			\	White		

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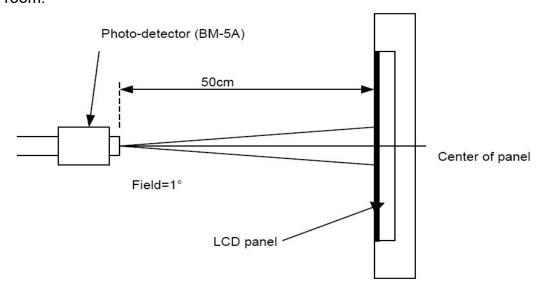
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9. Optical Characteristics

Item	Conditions		Min.	Тур.	Max.	Unit	Note	
	Horizontal	θL	60	70	-			
Viewing Angle	попиона	θR	60	70	-	dograe	(4) (2) (6)	
(CR>10)	Vertical	θт	40	50	-	degree	(1),(2),(6)	
	vertical	θв	60	70	-			
Contrast Ratio	Center		400	500	-	-	(1),(3),(6)	
Doonanaa Tima	Rising		-	10	20	ma	(1) (4) (6)	
Response Time	Falling		-	15	30	ms	(1),(4),(6)	
	Red x		-	TBD		-		
	Red y Green x			TBD		-		
				TBD		-		
CF Color	Green y		Тур.	TBD	Тур.	-	(1) (6)	
Chromaticity (CIE1931)	Blue x		-0.05	TBD	+0.05	-	(1), (6)	
(0.2.00.)	Blue y White x			TBD		-		
				TBD		-		
	White y			TBD		-		

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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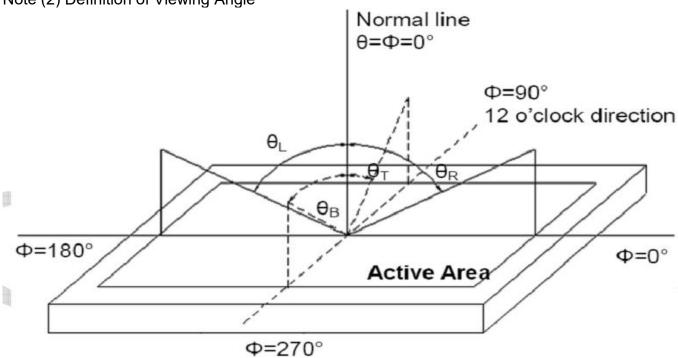
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Note (2) Definition of Viewing Angle

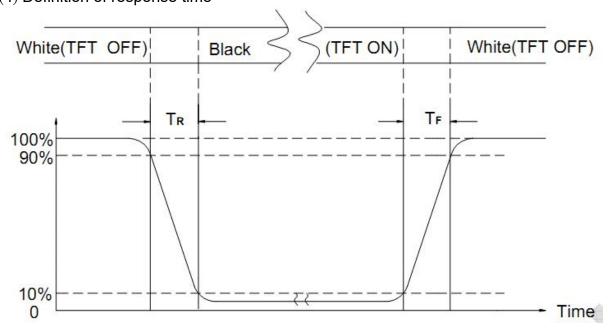


Note (3) Definition of Contrast Ratio (CR)

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



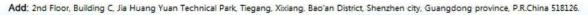
Note (5) Definition of Transmittance (Module is without signal input)

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		
1)	High Temperature Storage	Keep in 80°C ±5°C 96 hrs Surrounding temperature, then storage at normal condition 4hrs.		
2	Low Temperature Storage	Keep in -30°C ±5°C 96 hrs Surrounding temperature, then storage at normal condition 4hrs.		
3	High Temperature / High Humidity Storage Test	Keep in 50 °C / 90% R.H duration for 96 hrs Surrounding temperature, then storage at normal condition 4hrs. (Excluding the polarizer)		
4	Temperature Cycling Storage Test	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$		
(5)	ESD Test	Air Discharge: Apply 2 KV with 5 times Discharge for each polarity +/- 1. Temperature ambiance : 15 °C ~35 °C 2. Humidity relative : 30% ~60% 3. Energy Storage Capacitance(Cs + Cd) : 150pF±10% 4. Discharge Resistance(Rd) : 330Ω±10% 5. Discharge, mode of operation : Single Discharge (time between successive discharges at least		
6	Vibration Test (Packaged)	 (Tolerance if the output voltage indication : ±5%) Sine wave 10 ~ 55 Hz frequency (1 min/sweep) The amplitude of vibration :1.5 mm Each direction (X、Y、Z) duration for 2 Hrs 		
7	Drop Test (Packaged)	Packing Weight (Kg) 0 ~ 45.4 45.4 ~ 90.8 90.8 ~ 454 Over 454 Drop Direction : **1 corner / 3 edges / 6	Drop Height (cm) 122 76 61 46 Sides each 1time	

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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 $^{\circ}$ C TO 40 $^{\circ}$ 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.

	선거님이 집안 이 시간에 보고 있었다. 그 아이들은 그
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.

112. 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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113 INSPECTION PLAN:

CLASS	ITEM	JUDGEMENT	
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	
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 ACCORDING TO STANDARD OF VISUAL WHITE SPOT AND SCRATCH INSPECTION(INSIDE VIEWING AREA) ON THE POLARIZER		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)		

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NO.	CLASS	ITEM	JUDGEMENT		
			(A) ROUND TYPE:	unit : mm.	
		BLACK AND WHITE SPOT FOREIGN MATERIEL DUST IN THE CELL BLEMISH SCRATCH	DIAMETER (mm.)	ACCEPTABLE Q'TY	
			Φ ≤ 0.15	Distance>1mm	
			0.15 < Φ ≤ 0.4	3 (Distance>15mm)	
			0.4 < ⊕	0	
11.4.1	MINOR		NOTE: Φ=(LENGTH+WIDTH	7,000	
75507050			(B) LINEAR TYPE:	unit : mm.	
			LENGTH WIDTH	ACCEPTABLE Q'TY	
			Complete Com	≦0.03 Distance≥1mm	
				≦0.05 3 (Distance>15mm)	
			0.05 < W	FOLLOW ROUND TYPE	
			(<u>)</u>	unit : mm.	
			DIAMETER	ACCEPTABLE Q'TY	
		BUBBLE IN POLARIZER	Φ ≤ 0.2	Distance≥1mm	
11.4.2	MINOR	DENT ON POLARIZER	0.2 < Φ ≤ 0.3	3 (Distance>15mm)	
			0.3< Φ	0	
H					
			Items	ACC. Q'TY	
		Dot Defect	Bright dot	N≤2 (Distance≥15mm)	
	MINOR		Dark dot	N≦3 (Distance>15mm)	
			Pixel Define : Pixel	el J	
			R	В	
11.4.3			◆ Dot → ◆ Do	ot → Dot →	
			Note 1: The definition of dot: Th	CAMPAGE CO. COMPANIES CONTRACTOR	
				rded as one defective dot.	
				d visible by 5 % ND filter N ≦ 5	
			Note 2: Bright dot: Dots appear	75 F 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1	
			President and the state of the	lisplaying 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.		
			At Management of the Control of the	tor in E00/ grown as had	
11 4 4	MINOR	Mura	Not visible thriugh 5% ND filter in 50% gray or judge		
11.4.4			by limit sample if necessary		

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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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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

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