



SPECIFICATION

Product Model: PV07042Y0140T

DESIGNED	CHECKED	Approved
研发部	研发部	研发部
2022.06.24	2022.06.24	2022.06.24
Well	Tom	Mike

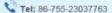
Ok

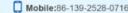
NG, Problem survey

Approved By____

Rev.V1 1/22











Revision Record

REV NO.	REV DATE	CONTENTS	Note
V0	2022.06.24	NEW ISSUE	

Rev.V1 2/22











Table of Contents

List	Description	Page No.
	Cover	1
	Revision Record	2
	Table of Contents	3
1	Scope	4
2	General Information	4
3	External Dimensions	5
4	Interface Description	6
5	Absolute Maximum Ratings	7
6	DC Characteristics	7
7	Timing Characteristics	8
8	Backlight Characteristics	13
9	Optical Characteristics	14
10	Reliability Test Conditions and Methods	16
11	Inspection Standard	17
12	Handling Precautions	21
13	Precaution for Use	22
14	Packing Method	23

Rev.V1 3/22



Tel: 86-755-23037763





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

TITEM	STANDARD VALUES	UNITS
LCD type	7.0"TFT	
Dot arrangement	800(RGB)×480	dots
Color filter array	RGB vertical stripe	
Display mode	Normally White	-
Gray Scale Inversion Direction	6 o'clock	
Eyes Viewing Direction	40/60/60/60 / 50/70/70/70	
Module size	165.0(W)×104.44(H)×5.2(T)	mm
Active area	152.4 (W)×91.44H)	mm
Dot pitch	190.5(W)×190.5(H)	um
Interface	RGB 18bit	
Operating temperature	-20 ~ +70	°C
Storage temperature	-30 ~ +80	°C
Back Light	24White LED	
Weight	TBD	g

Rev.V1 4/22



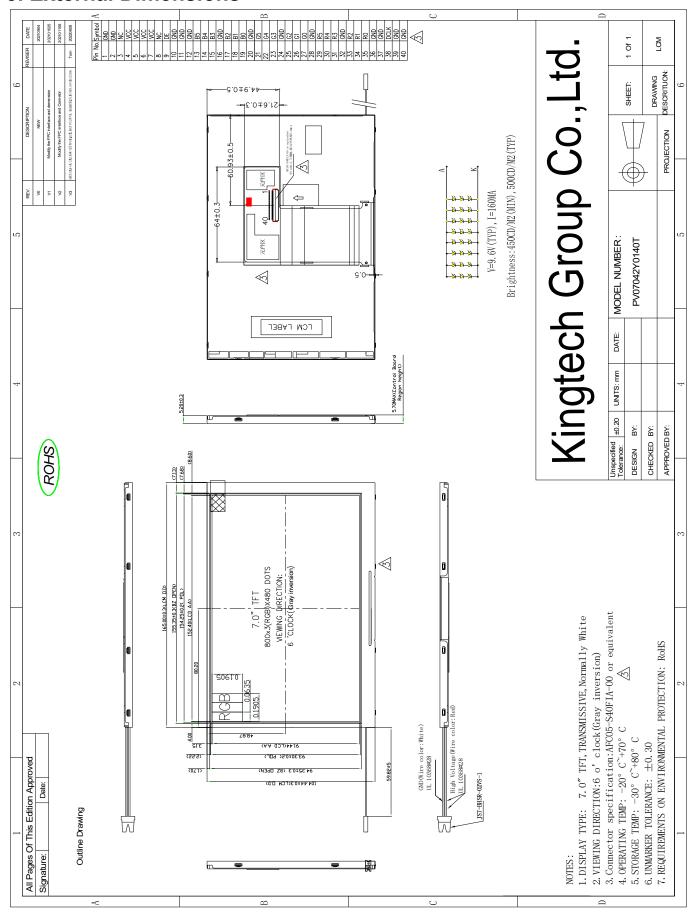
Tel: 86-755-23037763

Mobile:86-139-2528-0716





3. External Dimensions



Rev.V1 5/22



Tel: 86-755-23037763





4. Interface Description

	DIN NAME	
PIN	PIN NAME	DESCRIPTION
1	GND	Power ground
2	GND	
3	NC	Not connect
4	VCC	
5	VCC	
6	VCC	Digital Power.
7	VCC	
8	NC	Not connect
9	DE	Data Enable signal.
10	GND	
11	GND	Power ground
12	GND	
13	B5	Blue Data Input.
14	B4	Blue Data Input.
15	В3	Blue Data Input.
16	GND	Power ground
17	B2	Blue Data Input.
18	B1	Blue Data Input.
19	В0	Blue Data Input
20	GND	Power ground
21	G5	Green Data Input.
22	G4	Green Data Input.
23	G3	Green Data Input.
24	GND	Power ground
25	G2	Green Data Input.
26	G1	Green Data Input.
27	G0	Green Data Input
28	GND	Power ground
29	R5	Red Data Input.
30	R4	Red Data Input.
31	R3	Red Data Input.
32	GND	Power ground
33	R2	Red Data Input.
34	R1	Red Data Input.
35	R0	Red Data Input
36	GND	Dower ground
37	GND	Power ground.
38	DCLK	Clock input.
39-40	GND	Power ground.

Rev.V1 6/22



Tel: 86-755-23037763



5. Absolute Maximum Ratings

Item	Symbol	Min.	Max.	Unit
Logic Supply Voltage	DVDD	-0.5	5	V
Analog Supply Voltage	AVDD	-0.5	15	V
High Supply Voltage	VGH	-0.3	40	V
Low Supply Voltage	VGL	-20	0.3	V
Operating Temperature	Тор	-20	70	°C
Storage Temperature	Тѕт	-30	80	°C

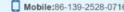
6. Operating Conditions

Parar	Parameter			Rating	Unit	Condition	
Faiai			Min.	Тур.	Max.	Oiii	Condition
		Vcc	3.0	3.3	3.6	V	
Dower Supp	ly Voltago	AVDD	10.2	10.4	10.6	٧	
Power Suppl	Power Supply Voltage		15.3	16	16.7	٧	
		V_{GL}	-7.7	-7	-6.3	٧	
Input Signal	Voltage	V _{сом}	-	5.1	-	٧	
LCD power		Icc		210		mA	black pattern
Digital Input	High Level	V _{IH}	0.7Vcc	-	Vcc	٧	Note 1
Voltage	Low Level	V _{IL}	0	-	0.3Vcc	٧	Note 1

Note 1: DCLK,HS,VS,RESET,U/D, L/R,DE,R0~R7,G0~G7,B0~B7,MODE,DITHB.

Note 1: Please adjust VCOM to make the flicker level be minimum. Typ VCOM 电压值 只做参考, 具体以实际效果为准(根据FLICKER 状态可调整)

Rev.V1 7/22 Tel: 86-755-23037763







7. Timing Characteristics

7.1 DC Characteristics

D	Complete	Constitution		Rating	-	I I mit	Application
Parameter	Symbol	Condition	Min.	Min. Typ. Max.		Unit	pin
Input H voltage	VIH	-	0.7VCC	-	VCC	٧	All input
Input L voltage	VIL	-	0	-	0.3VCC	V	All input
Output H voltage	Vон	IOH=200μA	VCC-0.3	-	VCC	٧	STVU,D
Output L voltage	Vol	IOL=200μA	0	-	0.3	٧	STVU,D
Output H resistance	Rон	Vx = VGH -0.5V	-	-	1000	Ω	OUT[1] ~ OUT[960]
Output L resistance	Rol	V _X = VGL+0.5V	-	-	1000	Ω	OUT[1] ~ OUT[960]
Input leakage current	lin	-	-1.0	-	+1.0	μΑ	Note ⁽²⁾
Pull high / low resistance	R _{PHL}	VIN=GND VIN=VCC	70	200	400	kΩ	XON, SEL, ,MODE
VGH Power consumption	lvgн	Note ⁽¹⁾	-	-	200	μΑ	-
VGL Power consumption	lvgн	Note ⁽¹⁾	-	-	-200	μА	-
VCC Power consumption	Ivcc	Note ⁽¹⁾	-	-	150	μА	-

Note 1: Power consumption with the following condition: Output no load, VGH=25V, VGL=-15V, VCC=3.3V, VIH =VCC, VIL=VGND, FCKV = 60 KHz, OE = VIL, XON= VIH.

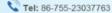
Note 2: All input except XON, SEL, MODE

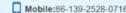
7.1 AC Characteristics

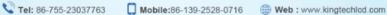
Parameter	Symbol Condition			Unit		
raiametei	Symbol	Condition	Min. Typ.		Max.	Onit
CKV period	t _{ckv}	-	5	-	-	μs
CKV pulse width	t _{ckvh} , t _{ckvL}	50% duty cycle	2.5	1	-	μs
OE pulse width	t _{woe}	-	1	-	-	μs
XON pulse width	t _{wxao}	-	100	-	-	μs
Data setup time	t _{su}	-	0.2	-	-	μs
Data hold time	t _{HD}	-	0.3	1	-	μs
CKV to output delay time	t _{PD1}	CL=200pF	-	-	0.9	μs
Start pulse output delay time	t _{PD2}	CL=20pF	-	-	0.5	μs
OE to output delay time	t _{PD3}	CL=200pF	-	-	0.9	μs
XON to output delay time	t _{PD4}	CL=200pF	-	-	100	μs

Note 1: The measurement point for all of above signals is at 50% of input/output amplitude.

Rev.V1 8/22

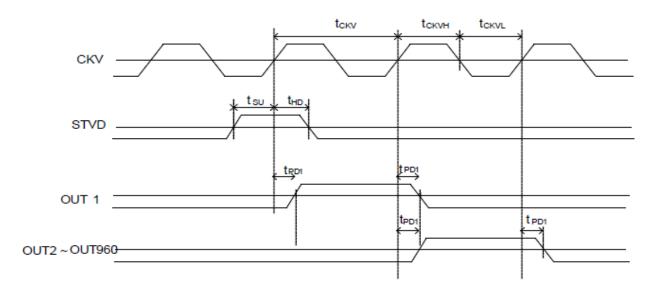


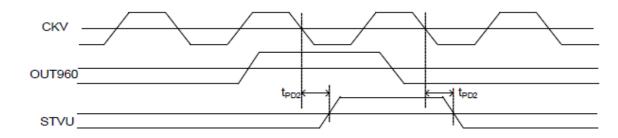


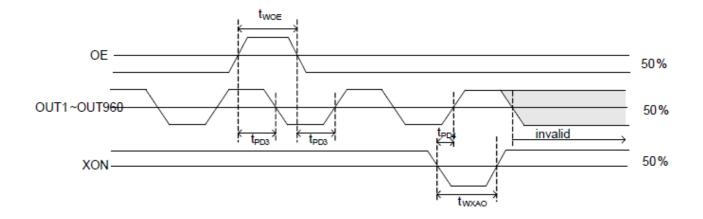




7.2 INPUT SIGNAL TIMING

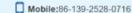


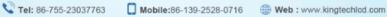




Rev.V1 9/22









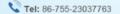
7.3 PARALLEL RGB INPUT TIMING TABLE

ltom	Symbol		Values	Unit	Remark	
Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Horizontal Display Area	thd	-	800	-	DCLK	
DCLK Frequency	fclk	26.4	33.3	46.8	MHz	
One Horizontal Line	th	862	1056	1200	DCLK	
HS pulse width	thpw	1	6	40	DCLK	
HS Blanking	thb	46	46	46	DCLK	
HS Front Porch	thfp	16	204	354	DCLK	

Itom	Cumbal		Values	l lmiá	Remark	
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	3	20	TH	
VS Blanking	tvb	23	23	23	TH	
VS Front Porch	tvfp	7	22	147	TH	

Note: Frame rate is 60 ± 5 Hz

Rev.V1 10/22









7.4 Data Input Format

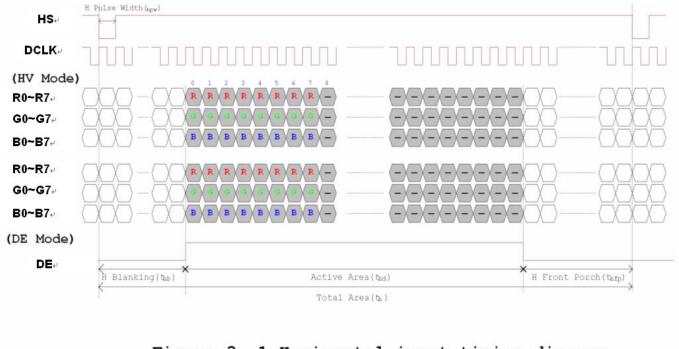


Figure 3. 1 Horizontal input timing diagram.

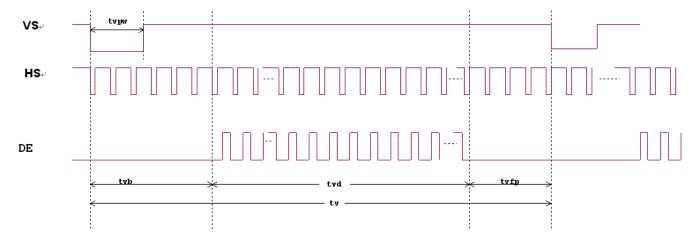
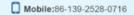


Figure 3. 2 Vertical input timing diagram.

Rev.V1 11/22

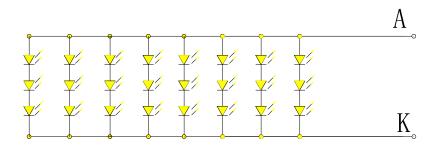








8. Backlight Characteristics



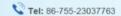
Item	Symbol	MIN	TYP	MAX	UNIT	Test Condition
Supply Voltage	Vf	8.4	9.6	10.5	V	lf=270mA
Supply Current	lf	-	160	-	mA	-
Luminous Intensity for LCM	-	450	500	-	cd/m ²	If=270mA
Uniformity for LCM	-	75	80	-	%	lf=270mA
Life Time	-	-	30000	-	Hr	If=270mA
Backlight Color	White					

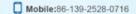
9. Optical Characteristics

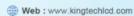
Item	Conditions		Min.	Тур.	Max.	Unit	Note	
	Horizontal	θL	60	70	-	degree		
Viewing Angle		θR	60	70	-		(1),(2),(6)	
(CR>10)	\	θт	50	60	-			
	Vertical	θв	60	70	-			
Contrast Ratio	Center		700	1000	-	-	(1),(3),(6)	
D	Rising Falling		-	5	10	ms	(1),(4),(6)	
Response Time			-	15	20			
	Red x			TBD		-		
	Red y			TBD	Typ +0.05	-	(1), (6)	
CF Color	Green x Green y		Тур.	TBD		-		
Chromaticity (CIE1931)			-0.05	TBD		-		
()	Blue x	Х		TBD				
	Blue y			TBD		-		

Rev.V1 12/22





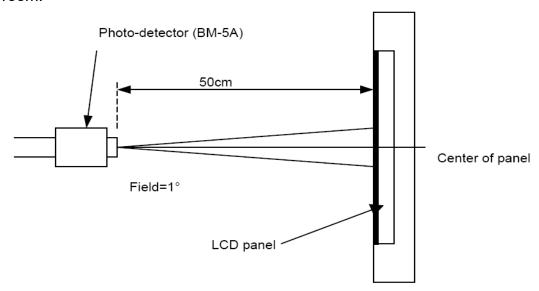


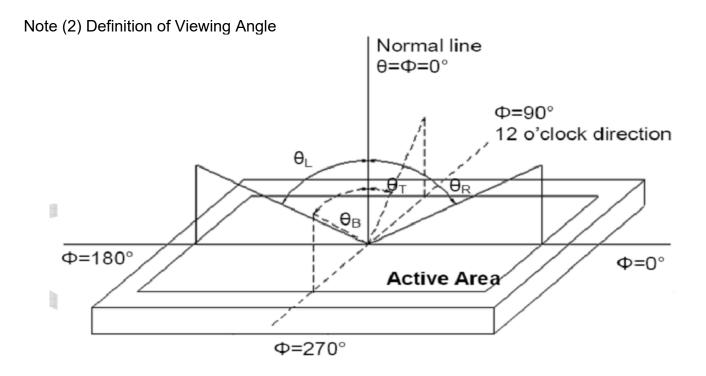




White x	TBD	ı	
White y	TBD	-	

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.





Rev.V1 13/22



Tel: 86-755-23037763

Mobile:86-139-2528-0716

Web: www.kingtechlcd.co

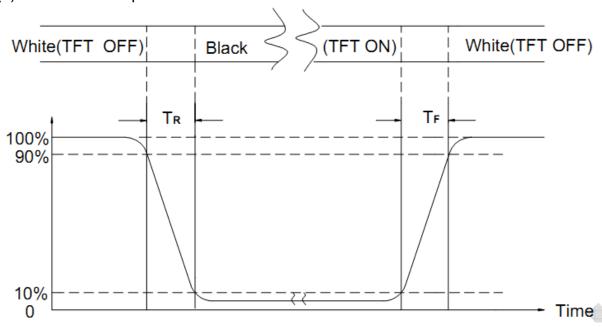


Note (3) Definition of Contrast Ratio (CR)

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

Note (7) Transmittance is the Value with WV Polarizer and BLU

10. Reliability Test Conditions and Methods

Rev.V1 14/22



Tel: 86-755-23037763







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.
3₽	Low Temperature Storage	Keep in -30°C ±5°C 96 hrs. Surrounding temperature, then storage at normal condition 4hrs. ✓
3₽	High Temperature /ℯ High Humidity ↵ Storage Testℯ	Keep in 60 °C / 90% R.H duration for 96 hrs.√ Surrounding temperature, then storage at normal condition 4hrs.√ (Excluding the polarizer)√
4₽	Temperature Cycling ↓ Storage Test↓	-30°C → +25°C → 80°C → +25°C √ (30mins) (5mins) (30mins) (5mins)√ 30 Cycle√ Surrounding temperature, then storage at normal condition 4hrs.√
5₽	Vibration Test ↓ (Packaged)↓ ↓	 Sine wave 10 ~ 55 Hz frequency (1 min/sweep). The amplitude vibration :1.5 mm. Each direction (X 、 Y 、 Z) duration for 2 Hrs.
6₽	Drop Test ↓ (Packaged)↵	Drop Height:45cm- Urop Direction: 1 corner / 3 edges / 6 sides each 1time- Drop Direction : 1 corner / 3 edges / 6 sides each 1 time-

Rev.V1 15/22



Tel: 86-755-23037763



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.

Rev.V1 16/22



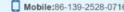


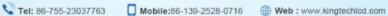
11.3. INSPECTION PLAN:

11.0. II 101 LO	HON PLAN .		
CLASS	ITEM	JUDGEMENT	CLASS
PACKING &	1. 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

Rev.V1 17/22





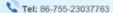


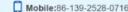


NO.	CLASS	ITEM	JUDGEMENT				
			(A) ROUND TYPE: unit : mm.				
			DIAMETER (mm.) ACCEPTABLE Q'TY	ACCEPTABLE Q'TY			
			Φ ≤ 0.15 Distance≥1mm				
	1 1	BLACK AND WHITE SPOT	$0.15 < \Phi \leq 0.4$ 3 (Distance>15mm)				
		FOREIGN MATERIEL	0.4 < ⊕ 0				
11 4 1	MINOR	DUST IN THE CELL	NOTE: Ф=(LENGTH+WIDTH)/2				
11.4.1	MIII TOTA	BLEMISH	(B) LINEAR TYPE: unit : mn	n.			
		SCRATCH	LENGTH WIDTH ACCEPTABLE Q'TY				
			W ≦0.03 Distance≥1mm	$\overline{}$			
			L ≤ 4.0 0.03 < W ≤ 0.05 3 (Distance>15m	_			
			0.05 < W FOLLOW ROUND TY	YPE			
\vdash			unit : mm.	\dashv			
			DIAMETER ACCEPTABLE Q'TY				
		BUBBLE IN POLARIZER	Φ ≤ 0.2 Distance≥1mm				
11.4.2	MINOR		0.2 < Φ ≤ 0.5 3 (Distance>15mm)				
			0.5 < ⊕ 0				
		Dot Defect	Items ACC. Q'TY				
			Bright dot N≤2 (Distance≥15mm)				
			Dark dot N≤3 (Distance>15mm)				
			Pixel Define : Pixel				
			R G B				
			◆ Dot → ◆ Dot →				
11.4.3	MINOR						
			Note 1: The definition of dot: The size of a defective dot over				
			1/2 of whole dot is regarded as one defective dot.				
			Definittion:<1/2dot and visible by 6% ND filter N ≤ 5				
			Note 2: Bright dot: Dots appear bright and unchanged in size				
			in which LCD panel is displaying under black pattern.	- 1			
			Note 3: Dark dot: Dots appear dark and unchanged in size in				
			which LCD panel is displaying under pure red, green				
			,blue pattern.				
		Mura	Not visible thriugh 6% ND filter in 50% gray or judge				
11.4.4	MINOR		by limit sample if necessary				
Ш			<u> </u>				

Rev.V1 18/22











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 > (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)	T Z X	Y > (1/3) T Reject
11.4.10	MINOR	LCD GLASS CHIPPING	T Z	Y > T Reject

Rev.V1 19/22



Tel: 86-755-23037763

Mobile:86-139-2528-0716

Web: www.kingtechlod.co



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.

Rev.V1 20/22



Tel: 86-755-23037763

Mobile:86-139-2528-0716

Web: www.kingtechlcd.co



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.

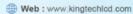
- When a question is arisen in this specification
- When a new problem is arisen which is not specified in this specifications
- When an inspection specifications change or operating condition change in customer is reported to Kingtech TFT, and some problem is arisen in this specification due to the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

Rev.V1 21/22



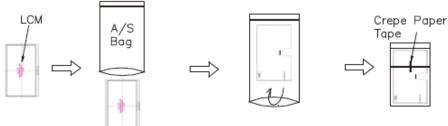


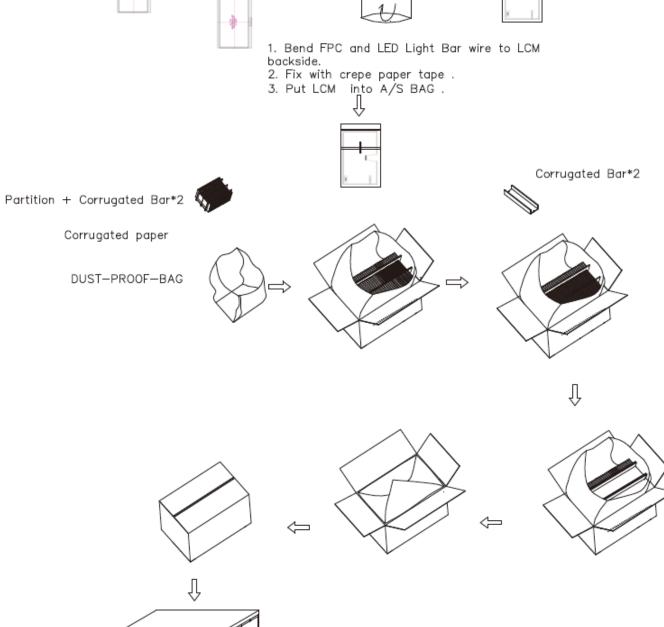


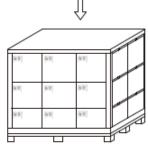




14. Packing Method







Rev.V1 22/22