



- **■**Tentative Specification
- □ Preliminary Specification
- □Approval Specification

SPECIFICATION

Product Model: PV07063Y0150Q

From: Kingtech Group Co. Ltd.

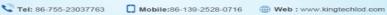
DESIGNED	CHECKED	Approved
研发部	研发部	研发部
2023.06.26	2023.06.26	2023.06.26
Tom	WELL	Mike

For Customer's Acceptance:

Comments:	Approved by:

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Revision Record

REV NO.	REV DATE	CONTENTS	Note
V0	2023.06.29	NEW ISSUE	
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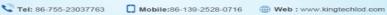




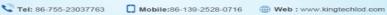


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1. Scope

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

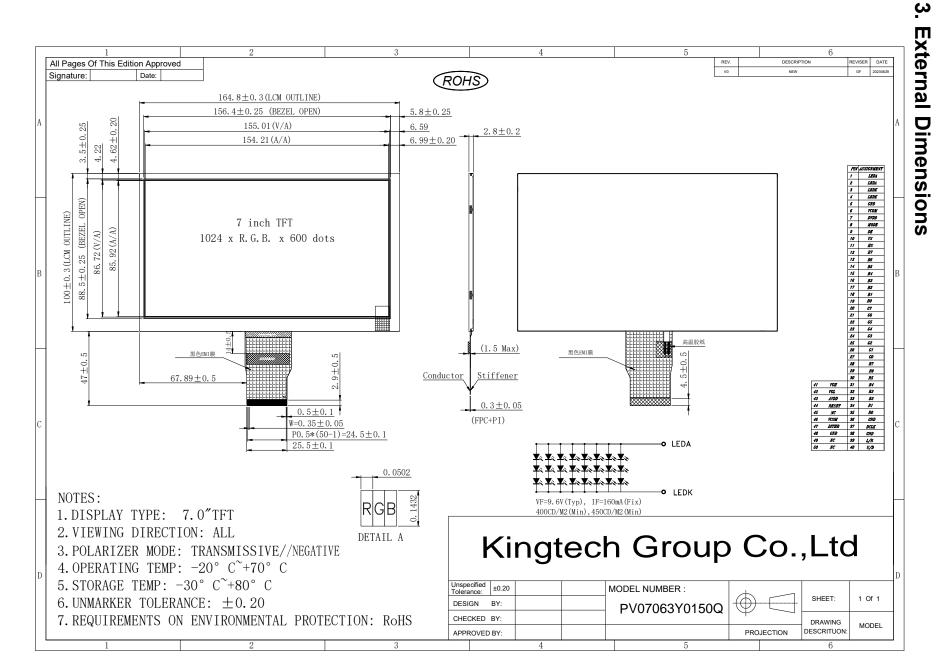
If the event of unforeseen problem or unspecified items may occur, naturally shall negotiate and agree to solution.

2. General Information

TITEM	STANDARD VALUES	UNITS
LCD type	7.0"TFT	
Dot arrangement	1024(RGB)×600	dots
Color filter array	RGB vertical stripe	
Display mode	Normally Black , Transmissive	-
Gray Scale Inversion Direction	ALL	
Eyes Viewing Direction	85/85/85	
Module size	164.80(W)×100.00(H)×2.8(T)	mm
Active area	154.21(W)×85.92(H)	mm
Dot pitch	0.1506(W)×0.1432(H)	mm
Interface	TTL	
Operating temperature	-20 ~ +70	°C
Storage temperature	-30 ~ +80	°C
Back Light	24White LED	
Weight	TBD	g

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Professional LCD









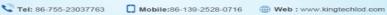


4. Interface Description

	acc Besci	
PIN	PIN NAME	DESCRIPTION
1	LEDA	LED backlight (Anada)
2	LEDA	LED backlight (Anode).
3	LEDK	LED backlight (Cathode).
4	LEDK	LED backlight (Cathode).
5	GND	Power ground
6	VCOM	Common Voltage.
7	DVDD	Digital Power.
8	MODE	DE/SYNC mode select. Normally pull high. H: DE mode. L: HSD/VSD mode.
9	DE	Data Enable signal.
10	VS	Vertical sync input. Negative polarity.
11	HS	Horizontal sync input. Negative polarity.
12	B7	Blue Data Input (MSB).
13	В6	Blue Data Input.
14	B5	Blue Data Input.
15	B4	Blue Data Input.
16	В3	Blue Data Input.
17	B2	Blue Data Input.
18	B1	Blue Data Input.
19	В0	Blue Data Input (LSB).
20	G7	Green Data Input (MSB).
21	G6	Green Data Input.
22	G5	Green Data Input.
23	G4	Green Data Input.
24	G3	Green Data Input.
25	G2	Green Data Input.
26	G1	Green Data Input.
27	G0	Green Data Input (LSB).
28	R7	Red Data Input (MSB).
29	R6	Red Data Input.
30	R5	Red Data Input.
31	R4	Red Data Input.
32	R3	Red Data Input.
33	R2	Red Data Input.
34	R1	Red Data Input.
35	R0	Red Data Input (LSB).
36	GND	Power ground.
37	DCLK	Clock input.
38	GND	Power ground.

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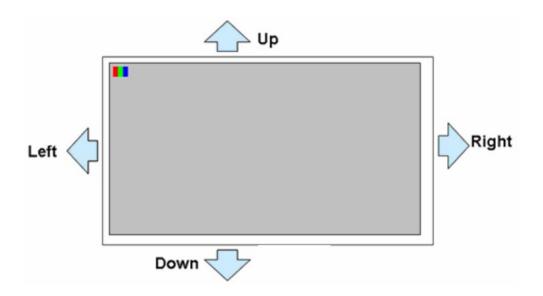




39	L/R	Left or Right Display Control.
40	U/D	Up / Down Display Control.
41	VGH	Positive Power for TFT.
42	VGL	Negative Power for TFT.
43	AVDD	Analog Power.
44	RESET	Global reset pin. Active low to enter reset state. Suggest to connecting with an RC reset circuit for stability. Normally pull high.(R=10KΩ, C=1μF)
45	NC.	Not connect.
46	VCOM	Common Voltage.
		U
47	DITHB	Dithering function enable control. (Normally pull high) DITHB="L", to enable internal dithering function. DITHB="H", to disable internal dithering function.
47	DITHB GND	Dithering function enable control. (Normally pull high) DITHB="L", to enable internal dithering function.
		Dithering function enable control. (Normally pull high) DITHB="L", to enable internal dithering function. DITHB="H", to disable internal dithering function.

Note 1: SHLR: left or right setting UPDN: up or down setting

UPDN	SHLR	FUNCTION
DVDD	GND	Left → Right , Up → Down(default)
GND	GND	Right→Left, Up→Down
DVDD	DVDD	Left→Right, Down→Up
GND	DVDD	Right→Left, Down→Up



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5. Electrical specification

Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Input signal Voltage	VCOM	3.0	3.68	8.0	V	-
Logic Supply Voltage	DVDD	2.3	3.3	3.6	V	
Analog Supply Voltage	AVDD	8.9	9.7	10.5	V	
Low Supply Voltage	VGL	-7.1	-6.0	-5.5	V	-
High Supply Voltage	VGH	16	18	19	V	
Output High Voltage	VIH	0.7XVDD	-	VDD	V	-
Output Low Voltage	VIL	0	-	0.3xVDD	V	-

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)

Note 2: The gate IC is the EK73215BCGA, The source IC is the EK79001

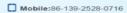
6. Absolute Maximum Ratings

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

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Tel: 86-755-23037763

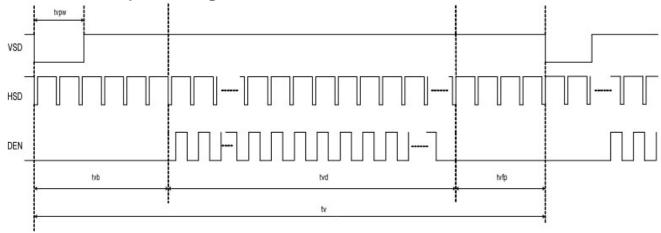




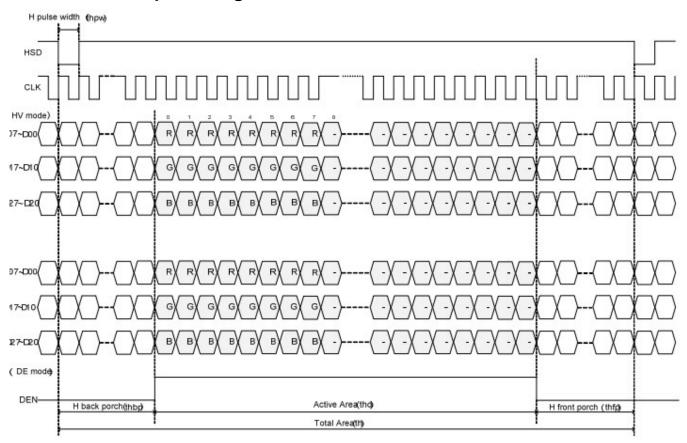


7. Timing Characteristics

7.1 Vertical Input timing



7.2 Horizontal input timing



Horizontal input timing

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7.3 DE mode

E mode	180				d:
Parameter	Oh al	Value			11.3
Parameter	Symbol	Min.	Тур.	Max.	Unit
DCLK frequency @Frame rate=60hz	fclk	40.8	51.2	67.2	Mhz
Horizontal display area	thd	% 	1024		DCLK
HSYNC period time	th	1114	1344	1400	DCLK
HSYNC blanking	thb+thfp	90	320	376	DCLK
Vertical display area	tvd	5 S	600	6	Н
VSYNC period time	tv	610	635	800	Н
VSYNC blanking	tvb+tvfp	10	35	200	Н

7.4 HV mode

Parameter		Symbol		Value		Unit
Horizontal display a	rea	thd	1024			DCLK
DCLK frequency@ Frame rate=60hz		fclk	Min.	Typ.	Max.	
			44.9	51.2	63	Mhz
1 Horizontal Line)	th	1200	1344	1400	
	Min.			1		
HSYNC pulse width	Typ.	thpw	2.0			DCLK
Max.				140		DCL
HSYNC back porch		thbp	160	160	160	
HSYNC front porch		thfp	16	160	216	1

rtical input timing						
Danamatan	Cumhal	Value			I India	
Parameter	Symbol	Min.	Тур.	Max.	Unit	
Vertical display area	tvd		600		Н	
VSYNC period time	tv	624	635	750	Н	
VSYNC pulse width	tvpw	1	-	20	Н	
VSYNC back porch	tvb	23	23	23	Н	
VSYNC front porch	tvfp	1	12	127	Н	

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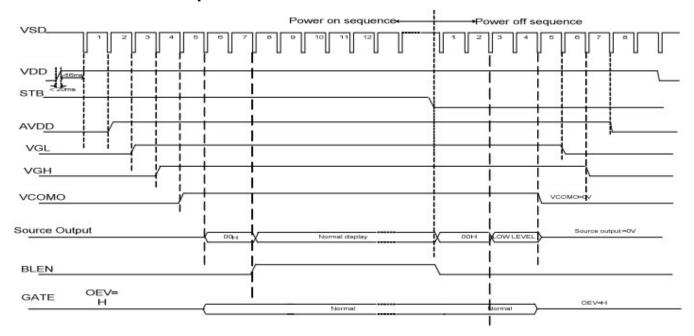
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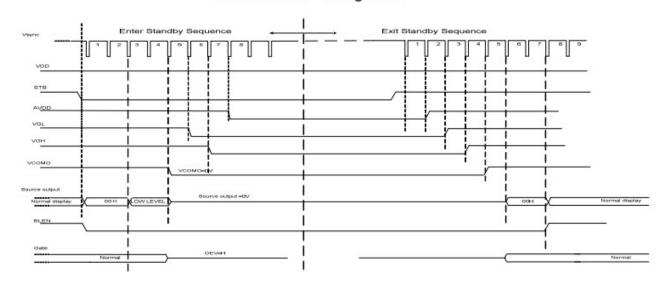




7.5 Power On/Off Sequence



Power On/Off timing chart



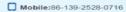
Enter and Exit Standby Mode timing chart

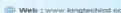
Note: Low level=3Fh, when NBW=L(Normally white)
Low level=00h, when NBW=H(Normally black)

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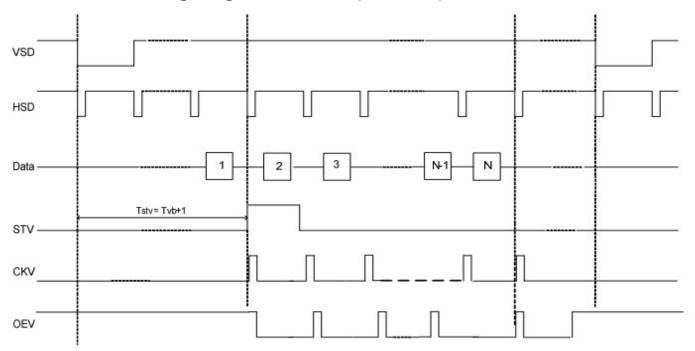






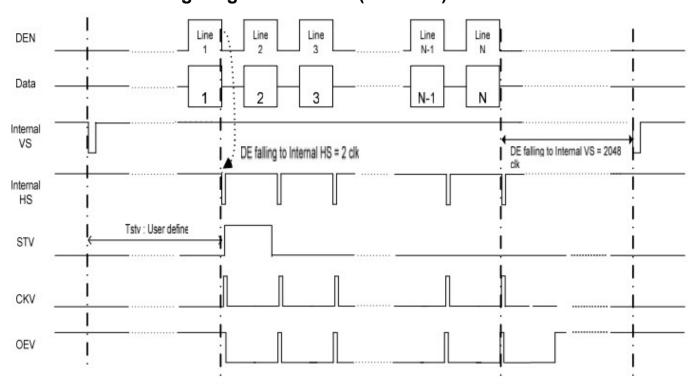
7.6 Timing

7.6.1 Vertical Timing Diagram HV mode(Cascade)



Vertical Timing Diagram HV mode(Cascade)

7.6.2 Vertical Timing Diagram DE mode(Cascade)



Vertical Timing Diagram DE mode(Cascade)

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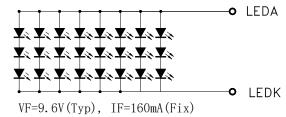








8. Backlight Characteristic



Item	Symbol	MIN	TYP	MAX	UNIT	Test Condition
Supply Voltage	Vf	8.1	9.6	9.9	V	If=160mA
Supply Current	If	-	160	-	mA	-
Luminous Intensity for LCM	-	400	450	-	cd/m ²	If=160mA
Uniformity for LCM	-	80	-	-	%	If=160mA
Life Time	-	-	50000	-	Hr	If=160mA
Backlight Color	White					

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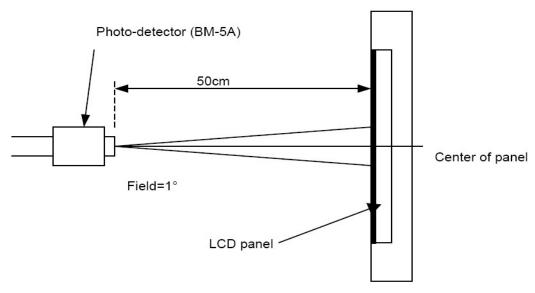




9. Optical Characteristics

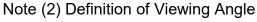
Item	Conditions		Min.	Тур.	Max.	Unit	Note	
	Horizontal	θL	-	85	-	degree		
Viewing Angle		θR	-	85	-		(1),(2),(6)	
(CR>10)	Vertical	θт	-	85	-			
	vertical	θв	-	85	-			
Contrast Ratio	Center		600	800	-	-	(1),(3),(6)	
Response Time	Rising			25	40	ms	(1) (4) (6)	
Response fille	Falling		_	25	40	1115	(1),(4),(6)	
	Red x			0.600		-		
	Red y			0.340		-		
	Green x			0.364	Typ. +0.05	-		
CF Color	Green y		Тур.	0.578		-	(1) (6)	
Chromaticity (CIE1931)	Blue x		-0.05	0.149		-	(1), (6)	
	Blue y			0.114		-		
	White x			0.318		-		
	White y			0.356		-		

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.

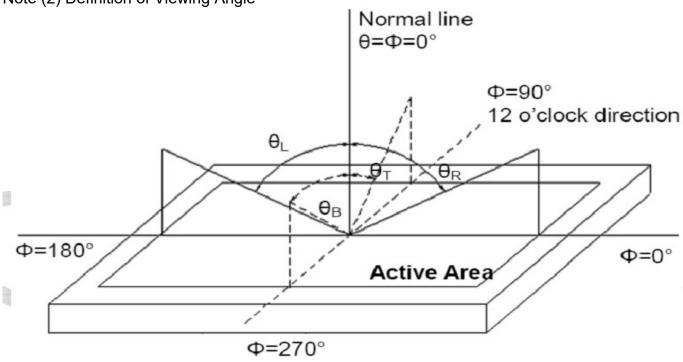


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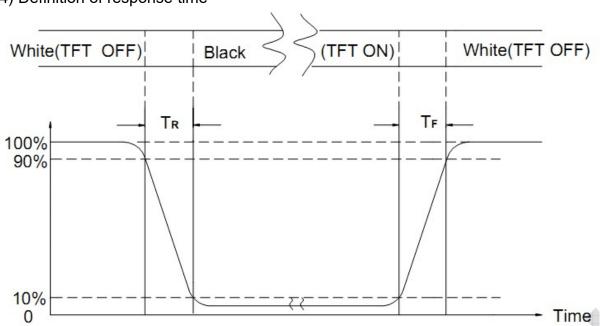


Note (3) Definition of Contrast Ratio (CR)

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



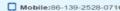
Note (5) Definition of Transmittance (Module is without signal input)

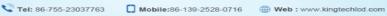
Transmittance = Center Luminance of LCD / Center Luminance of Back Light x 100%

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 ℃ / 90% R.H duration Surrounding temperature, then st (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 \sim 35 $^{\circ}$ C 2. Humidity relative : $30\%\sim60\%$ 3. Energy Storage Capacitance(Cs + Cd) : $150pF\pm10\%$ 4. Discharge Resistance(Rd) : $330\Omega\pm10\%$ 5. Discharge, mode of operation :					
		Single Discharge (time between successive discharges at least 1 sec) (Tolerance if the output voltage indication : ±5%)					
6	Vibration Test (Packaged)	 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 					
Ø	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 6 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. INSPECTIONTOOLS AND INSTRUMENTS

Vernier calipers, film scales, multimeter, magnifying eyepiece, ND5%, luminance meter and so on.

11.1.2. THE METHOD OF PRESERVING GOODS

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

11.1.3. 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

CLASS	AQL(%)
CRITICAL	0.4 %
MAJOR	0.65 %
MINOR	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.

11.1.4. WARRANTY POLICY

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

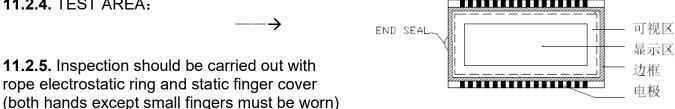
11.2. CHECKING CONDITION

- 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
- **11.2.3.** Ambient Illumination:

0 ~30 Lux for functional inspection

500 ~ 1200 Lux for external appearance inspection.

11.2.4. TEST AREA:



11.2.6. The inspector may make a visual inspection or a comparative examination with a film

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ruler and a magnifying eyepiece. Individual defects shall be determined according to the limited samples.

- **11.2.7.** Functional testing uses electrical testing fixtures or test fixtures required by customers.
- **11.2.8.** the ion fan should be used when testing.

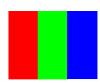
11.2.9. the principle of judgment

11.3.1 If the defect outside the visual area does not affect the assembly and display, it will be judged as a good product.

11.3.2 Poor definition

Pixel:

A combination of three sub-pixels (Red + Green + Blue).



Dot:

Any of the sub-pixels (Red or Green or Blue).







Bright and dark dots:

A point pixel (sub-pixel: R, G, B pixels) is lit or turned off during the display function test.

Highlights:

Usually considered to be shown on a black screen.

Dark spots:

They are generally considered to be shown on R, G, B solid colors or white images.

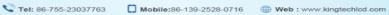
Neighborhood:

Two or three adjacent point pixels (dot: sub-pixel) connected together (R, G or G, B or B, R or RGB).

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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)	ACCORDING TO STANDARD OF VISUAL INSPECTION	Minor

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NO.	CLASS	ITEM	JUDGEMENT					
			(A) ROUND TYPE: unit: mm					
	DI ACK AND WHITE COOK		DIA	METER (mm.)	ACCEPTABLE Q'TY			
				Ø≤0. 2	Distances ≥ 1mm			
		BLACK AND WHITE SPOT FOREIGN MATERIEL	0.2	< ∅ ≤ 0.3	3 (Distance ≥ 5mm)			
11. 4. 1	MINOR	DUST IN THE CELL	0.3	< ∅ ≤ 0.4	2 (Distance ≥ 5mm)			
11. 4. 1		BLEMISH	0.4	< Ø	0			
		SCRATCH	NOTE: ∅=(LENGTH*WIDTH)/		H)/2			
			(S) LINE	TYPE:	unit: mm			
			LENG	WIDTH	ACCEPTABLE QTY			
			•••••	W≤ 0.03	Distance≥ 1mm			
			L	$0.03 < W \le 0.0$				
			•••••	0.05 < W	FOLLOW ROUND TYPE			
			NOTE: Ø=(LENGTH*WIDTH)/2					
					unit: mm.			
		BUBBLE IN POLARIZER		DIAMETER	ACCEPTABLE Q'TY			
11. 4. 2	MINOR	DENT ON POLARIZER		Ø<0.2	Distance≥ 1mm			
			0.2<∅≤ 0.3		4 (Distance≥ 15mm)			
				0.3<∅≤ 0.4	3 (Distance≥ 15mm)			
				0.4<Ø	0			
			Items ACC. Q'TY					
			Bright dot N ≤1 (Distance ≥ 15m					
				Dark dot	N ≤3 (Distance ≥ 15mm)			
			Pixel Define :					
11. 4. 3	MINOR	Dot Defect	Pixel Pixel Pixel Dot					
			 The definition of dot: The size of a defective dot over 1 of whole dot is regarded as one defective dot. Definition: <1/2 dot and visible by 5% ND filter Bright dot: Dots appear bright and unchanged in size m which LCD panel is displaying under black pattern. Dark dot: Dots appear dark and unchanged in size in which LCD panel is displaying under pure red. green , blue pattern. 					
11. 4. 4	MINOR	Mura	Not visible through 5% ND filter in 50% gray or judge by limit sample if necessary					

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NO.	CLASS	ITEM	JUDGEMENT	
11. 4. 5	MINOR	LCD GLASS CHIPPING	X≥3mm Y>S	Reject
11. 4. 6	MINOR	LCD GLASS CHIPPING	X OR Y >S	Reject
11. 4. 7	MINOR	LCD GLASS CRACK	Continuous burst NG	Reject
11. 4. 8	MINOR	LCD GLASS SCRIBE DEFECT	According to dimension	
11. 4. 9	MINOR	LCD GLASS CHIPPING (on the terminal area)	Y<1/2Z Y≥0.5mm X≥3mm	Reject
11. 4. 10	MINOR	LCD GLASS CHIPPING (on the terminal surface)	Y<1/2Z Y≥0.5mm X≥3mm	Reject
11. 4. 11	MINOR	LCD GLASS CHIPPING	e X≥3mm Y>T If touch the electrode need to retain the electrode lines	

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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.

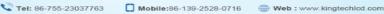
12.4 packing

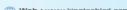
- Module employs LCD elements and must be treated as such.
- Avoid intense shock and falls from a height.
- To prevent modules from degradation, do not operate or store them exposed direct to sunshine or high temperature/humidity

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.

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

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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