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SPECIFICATION

Product Model: PV0705YX50E (Rev.V0)

Designed by	R&D Checked by	Quality Department by	Approved by

Approval by Customer:

Ok

NG, Problem survey

Approved By_____

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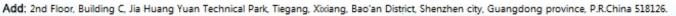
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Revision Record

V0 2	2015/05/22	NEW ISSUE	

Rev.V0 2/22





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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	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)×5.7(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	27 White LED	
Weight	TBD	g

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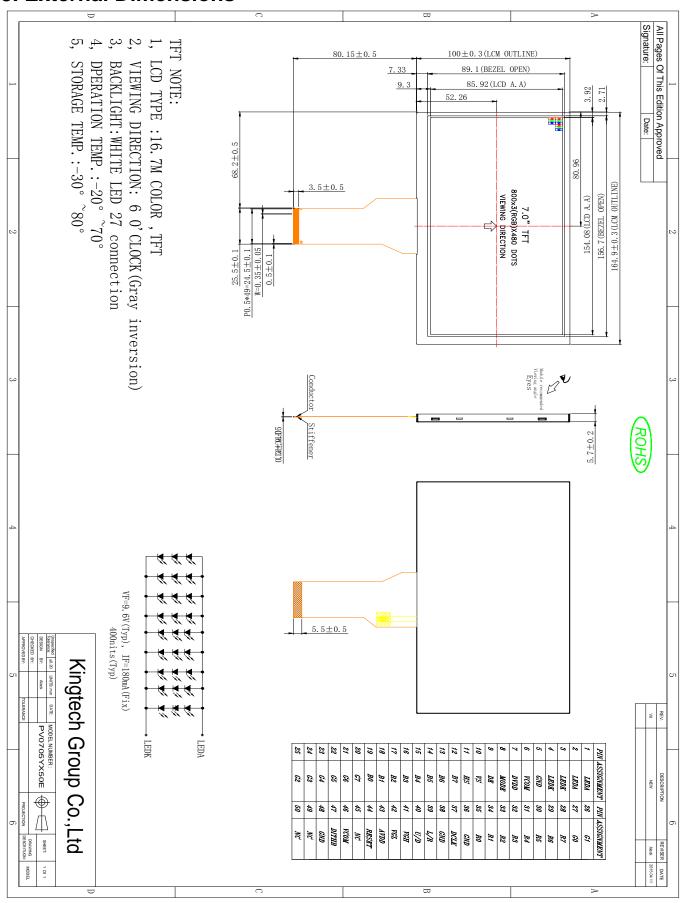
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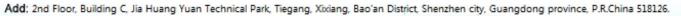
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3. External Dimensions



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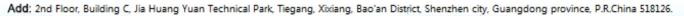
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4. Interface Description

4. interi	. Interface Description						
PIN	PIN NAME	DESCRIPTION					
1	LEDA	LED booklight (Anada)					
2	LEDA	LED backlight (Anode).					
3	LEDK	LED booklight (Cathodo)					
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	B6	Blue Data Input.					
14	B5	Blue Data Input.					
15	B4	Blue Data Input.					
16	B3	Blue Data Input.					
17	B2	Blue Data Input.					
18	B1	Blue Data Input.					
19	B0	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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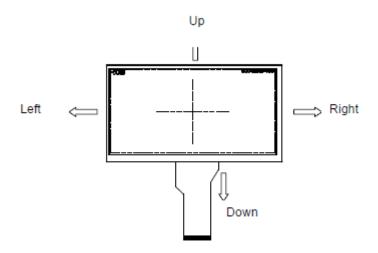


39	L/R	Left or Right Display Control.
40	U/D	Up / Down Display Control.
41	VGH	Positive Power for TFT.
42	VGL	Negative Power for TFT.
43	AVDD	Analog Power.
44	RESET	Global reset pin. Active low to enter reset state. Suggest to connecting with an RC reset circuit for stability. Normally pull high.(R=10KΩ,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

[Note1] L/R: left or right setting U/D: up or down setting

L/R	U/D	Data shifting
DVDD	GND	Left → Right, Up → Down(default)
GND	GND	Right \rightarrow Left, Up \rightarrow Down
DVDD	DVDD	Left \rightarrow Right, Down \rightarrow Up
GND	DVDD	$Right \to Left, \ Down \to Up$

Definition of scanning direction:



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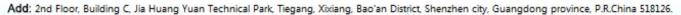
5. Absolute Maximum Ratings

Item	Symbol	Min.	Max.	Unit
Digital Supply Voltage	DVDD	-0.3	5.0	V
Analog Supply Voltage	AVDD	6.5	13.5	V
Gate On Voltage	VGH	-0.3	40.0	V
Gate Off Voltage	VGL	-20.0	0.3	V
Gate On- Gate Off Voltage	VGH-VGL	-	40.0	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	DVDD	3.0	3.3	3.6	V	-
Analog Supply Voltage	AVDD	10.2	10.4	10.6	٧	-
Gate On Voltage	VGH	15.3	16.0	16.7	V	-
Gate Off Voltage	VGL	-7.7	-7.0	-6.3	٧	-
Common Voltage	VCOM	3.8	4.0	4.2	V	-
Logio logut Voltago	VIH	0.7DVDD	-	DVDD	V	-
Logic Input Voltage	VIL	GND	-	0.3DVDD	V	-

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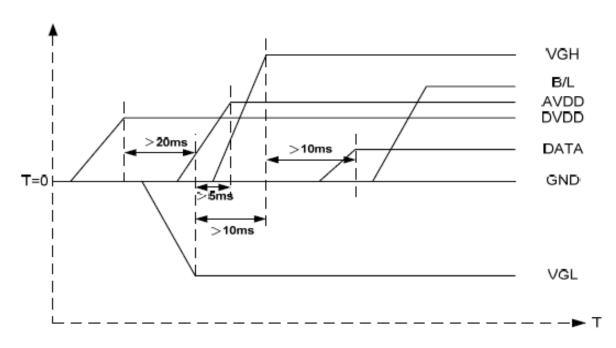
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7. Timing Characteristics

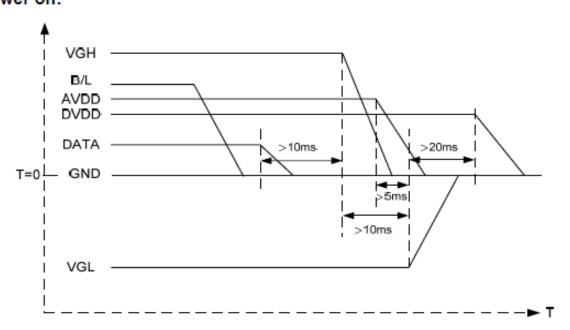
7.1 Power Sequence

a. Power on:



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

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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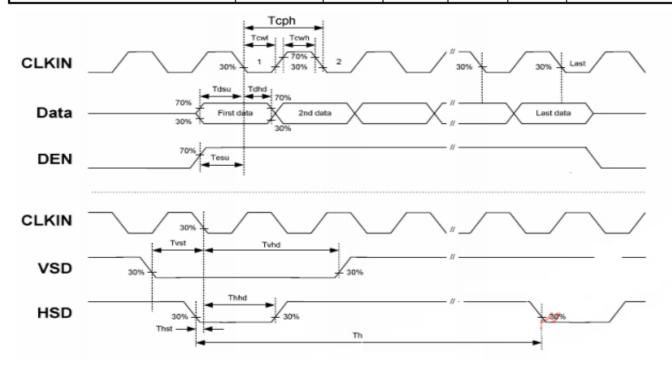
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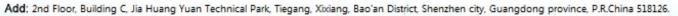


7.2 AC Electrical Characteristics

Item	Cumbal		Values		Unit	Remark
item	Symbol	Min.	Тур.	Max.	Onit	Kemark
HS setup time	Thst	8	-	-	ns	
HS hold time	Thhd	8	-	-	ns	
VS setup time	Tvst	8	-	-	ns	
VS hold time	Tvhd	8	ŀ	-	ns	
Data setup time	Tdsu	8	-	-	ns	
Data hole time	Tdhd	8	-	-	ns	
DE setup time	Tesu	8	-	-	ns	
DE hole time	Tehd	8	-	-	ns	
DV _{DD} Power On Slew rate	TPOR	-	-	20	ms	From 0 to 90% DV _{DD}
RESET pulse width	T _{Rst}	1	-	-	ms	
DCLK cycle time	Tooh	20	-	-	ns	
DCLK pulse duty	Towh	40	50	60	%	



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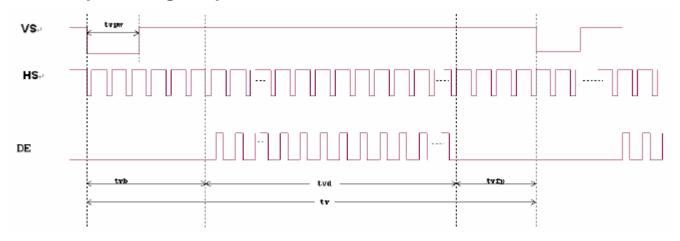


7.3 Data Input Format

Horizontal input timing diagram



Vertial input timing diagram



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7.4 Timing

Item	Symbol		Values	Unit	Remark	
item	Syllibol	Min.	Тур.	Max.	Oilit	Kemark
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	įthpw	1	-	40	DCLK	
HS Blanking	thb	46	46	46	DCLK	
HS Front Porch	thfp	16	210	354	DCLK	

ltom.	Cumbal		Values	Unit	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	-	20	TH	
VS Blanking	tvb	23	23	23	TH	
VS Front Porch	tvfp	7	22	147	TH	

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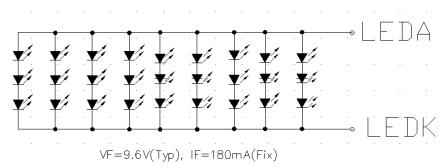
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8. Backlight Characteristic



Item	Symbol	MIN	TYP	MAX	UNIT	Test Condition
Supply Voltage	Vf	8.7	9.6	10.5	V	If=180mA
Supply Current	If	-	180	-	mA	-
Luminous Intensity for LCM	-	350	400	-	cd/m ²	If=180mA
Uniformity for LCM	-	80	-	-	%	If=180mA
Life Time	-	-	50000	-	Hr	lf=180mA
Backlight Color	White					

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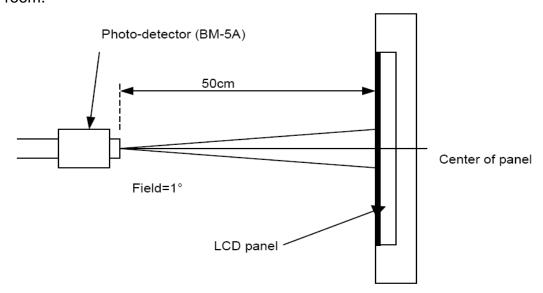
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9. Optical Characteristics

Item	Conditions		Min.	Тур.	Max.	Unit	Note	
	Horizontal	θL	60	70	-	degree		
Viewing Angle		θR	60	70	-		(1),(2),(6)	
(CR>10)	Marthael	θт	40	50	-			
	Vertical	θв	60	70	-			
Contrast Ratio	Center		400	500	-	-	(1),(3),(6)	
Doopongo Timo	Rising		-	10	20	ms	(1),(4),(6)	
Response Time	Falling		-	15	30			
	Red x			TBD	Typ. +0.05	-	(1), (6)	
	Red y			TBD		-		
	Green x			TBD		-		
CF Color Chromaticity (CIE1931)	Green y		Тур.	TBD		-		
	Blue x		-0.05	TBD		-		
	Blue y			TBD		-		
	White x			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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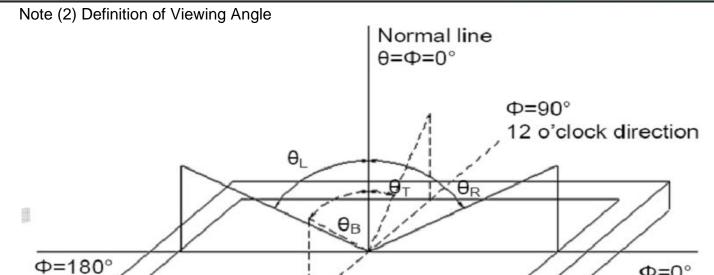
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Φ=0°



Active Area

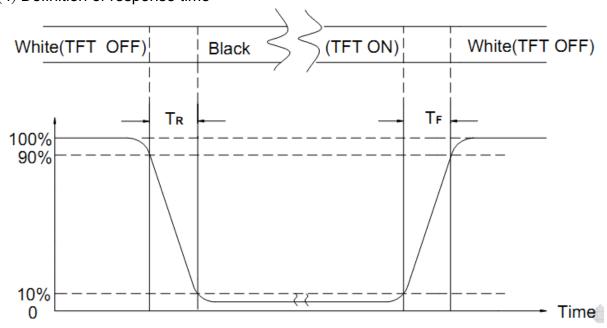
Note (3) Definition of Contrast Ratio (CR)

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

 $\Phi = 270^{\circ}$

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

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	-20°C → +25°C → 70°C → +25°C (30mins) (5mins) (30mins) (5mins) 10 Cycle Surrounding temperature, then storage at normal condition 4hrs.			
(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 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 			
7	Drop Test (Packaged)	Packing Weight (Kg) Drop Height (cm) 0 ~ 45.4 122 45.4 ~ 90.8 76 90.8 ~ 454 61 Over 454 46 Drop Direction: **1 corner / 3 edges / 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. THE METHOD OF PRESERVING GOODS

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

11.1.2. INCOMING INSPECTION

(A) THE METHOD OF INSPECTION

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

(B) THE STANDARD OF QUALITY

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

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

EVERY ITEM SHALL BE INSPECTED ACCORDING TO THE CLASS.

(C) MEASURE

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

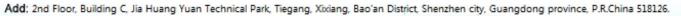
11.1.3. WARRANTY POLICY

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

11.2. CHECKING CONDITION

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

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11.3. INSPECTION PLAN:

11.5. INST EO	TION 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

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11.4	STANI	DARD OF VISUAL INSPECT	ION			
NO.	CLASS	ITEM	JUDGEMENT			
NO.		BLACK AND WHITE SPOT FOREIGN MATERIEL	(A) ROUND TYPE:	unit : mm. ACCEPTABLE Q'TY DISREGARD 3 (Distance>5mm) 0 /2 unit : mm. ACCEPTABLE Q'TY S 0.05 DISREGARD 5 0.08 3 (Distance>5mm)		
11.4.2	MINOR	BUBBLE IN POLARIZER DENT ON POLARIZER	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	unit : mm. ACCEPTABLE Q'TY DISREGARD 3 (Distance>7mm) 0		
11.4.3	MINOR	Dot Defect	Note 3: Dark dot: Dots appear dar	B size of a defective dot over ed as one defective dot. right and unchanged in size playing under black pattern.		

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NO.	CLASS	ITEM	JUDGEMEN	Т
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	 a> L/3 , A>1.5mm. Reject 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 KINGTECHFT 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.

14. Packing Method

TBD

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