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SPECIFICATION

VXT101BAHA-01C

☐ Preliminary Specification

☐ Final Specification
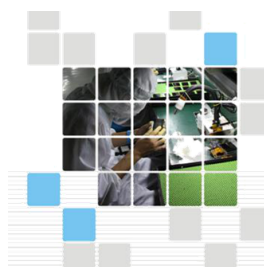
Approved By:
Date:

RECORD OF REVISION

Rev No.	Rev Date	Page	Contents	Editor
V00	2025/08/06		New issue.	Bob

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1. Scope

This specification defines general provisions as well as inspection standards for TFT module supplied by Victronix. If the event of unforeseen problem or unspecified items may occur, naturally shall negotiate and agree to solution
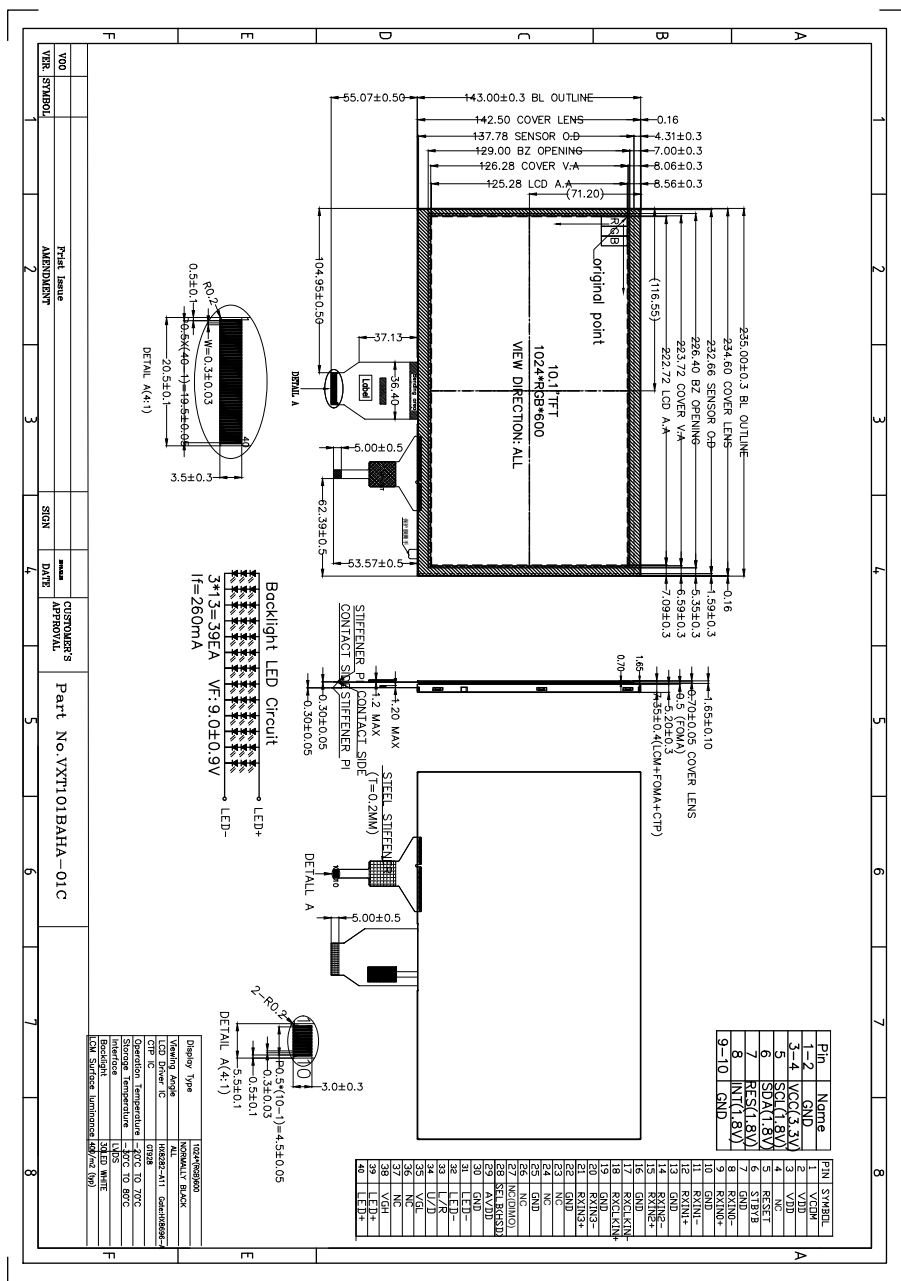
2.1 General Specifications

Item	Contents	Unit	Note
LCD Type	TFT	-	
Display color	16.7M		
Viewing Direction	ALL	O'Clock	
Operating temperature	-20~+70	℃	
Storage temperature	-30~+80	℃	
Module size	10.1	inch	
Active Area(W×H)	222.72x125.28	mm	
Number of Dots	1024x600	dots	
Controller	HX8282A11+HX8696A	-	
Power Supply Voltage	3.3	V	
Outline Dimensions	235.00x143.00x7.35	mm	
Backlight	3x13-LEDs (white)	pcs	
Weight	---	g	
Interface	6/8 BIT LVDS	-	

2.2 CTP Parameter

Item	Contents	Unit	Note
Outline Size	234.6x142.5	mm	
Cover View Area	223.72(H)x126.28V)	mm	
CTP Resolution	1024x600	dots	
Interface Mode	IIC	-	
Touch Mode	5 Human fingers multi-touch	-	
Surface hardness	>=6H	-	
Transparency	>=85%	-	
Accuracy	Entre +/-1.5mm,Edge +/-2.5mm	mm	
CTP Controller	GT928	-	
Power Supply Voltage	3.3	V	

3.Outline Drawing

VER. |SYMBOL | V00
AMENDMENT | Print Issue
SIGN
DATE
CUSTOMER'S APPROVAL

Part No.VXT101BAHA-01C

55.07±0.50
143.00±0.3 BL OUTLINE
142.50 COVER LENS — 0.16
137.78 SENSOR O.D — 4.31±0.3
129.00 BZ OPENING — 7.00±0.3
126.28 COVER V.A — 8.06±0.3
125.28 LCD A.A — 8.56±0.3
(71.20)

235.00±0.3 BL OUTLINE
234.60 COVER LENS
232.66 SENSOR O.D
226.40 BZ OPENING
223.72 COVER V.A
222.72 LCD A.A

104.95±0.50
37.13
36.40

original point
VIEW DIRECTION: ALL
10.1"TFT
1024*RGB*600

DETAIL A
Label

0.16
-1.59±0.3
-5.35±0.3
-6.59±0.3
-7.09±0.3

5.00±0.5
62.39±0.5
53.57±0.5

DETAIL A(4:1)
R0.2
W=0.3±0.03
0.5±0.1
0.5K40-1
20.5±0.1
3.5±0.3

Backlight LED Circuit
3*13=39EA
If=260mA
VF:9.0±0.9V
LED+
LED-

STIFFENER P
CONTACT SIDE
CONTACT SIDE
STIFFENER PI
STEEL STIFFEN
(T=0.2MM)
1.20 MAX
0.30±0.05
0.30±0.05

0.70
1.65
-0.70±0.05 COVER LENS
-0.5 (FOMA)
-5.20±0.3
-1.65±0.10
-0.5 (FOMA)
-5.35±0.4(LCM+FOMA+CTP)

DETAIL A
5.00±0.5

DETAIL A(4:1)
2-R0.2
0.5*(10-1)=4.5±0.05
0.3±0.03
5.5±0.1
0.5±0.1
3.0±0.3

Pin	Name
1-2	GND
3-4	VCC(3.3V)
5	SCL(1.8V)
6	SDA(1.8V)
7	RESET
8	INT(1.8V)
9-10	GND

PIN	SYMBOL
1	VCOM
2	VDD
3	NC
4	NC
5	RESET
6	STBYB
7	GND
8	RXIN0+
9	RXIN0-
10	GND
11	RXIN1+
12	RXIN1-
13	GND
14	RXIN2+
15	RXIN2-
16	GND
17	RXCLKIN+
18	RXCLKIN-
19	GND
20	RXIN3+
21	RXIN3-
22	GND
23	NC
24	NC
25	GND
26	NC(DIMO)
27	NC(DIMO)
28	SEL_R/LSTD
29	AVDD
30	GND
31	LED-
32	LED-
33	L/R
34	U/D
35	VGL
36	NC
37	NC
38	VGH
39	LED+
40	LED+

Display Type	1024*RGB*600
Viewing Angle	NORMALLY BLACK
	ALL
LCD Driver IC	HX8280-A11
CTP IC	GT928 GdxH0808G-A
Operation Temperature	-20℃ TO 70℃
Storage Temperature	-30℃ TO 80℃
Interface	LVDS
Backlight	39 LED WHITE
CM Surface Luminance	450 cd/m² (typ)

4.1 Interface Description

Pin No.	Symbol	I/O	Function	
1	VCOM	P	Common voltage	
2-3	VDD	P	Power for digital circuit	
4	NC	-	No connection.	
5	REST	I	Reset pin, normally pull high.	
6	STBYB	I	Standby mode control. Normally pull High.	
7	GND	P	Ground.	
8	Rxin0-	I	LVDS lane0 input	
9	Rxin0+	I		
10	GND	P	Ground.	
11	Rxin1-	I	LVDS lane1 input	
12	Rxin1+	I		
13	GND	P	Ground.	
14	Rxin2-	I	LVDS lane2 input	
15	Rxin2+	I		
16	GND	P	Ground.	
17	RxCLK-	I	LVDS CLK input	
18	RxCLK+	I		
19	GND	p	Ground.	
20	Rxin3-	I	LVDS lane3 input	
21	Rxin3+	I		
22	GND	P	Ground.	
23-24	NC	-	No connection.	
25	GND	P	Ground.	
26	NC	-	No connection.	
27	DIMO/NC	-	No connection.	
28	SELB	I	SELB=0	LVDS 8 BIT
			SELB=1	LVDS 6BIT
29	AVDD	P	Power for analog circuit	
30	GND	P	Ground.	
31-32	NC	-	No connection.	
33	L/R	I	Source Right or Left sequence control. SHLR = "L", S1←S2........←S1536 SHLR = "H" , S1→S2.......→S1536	
34	U/D	I	Gate Up or Down scan control. UPDN = "L", STV2 output vertical start pulse and UD pin output logical "0" to Gate driver. UPDN = "H", STV1 output vertical start pulse and UD pin output logical "1" to Gate driver.	
35	VGL	P	Gate off voltage	
36	CABCEN1/NC	-	No connection.	
37	CABCEN0/NC	-	No connection.	
38	VGH	P	Gate on voltage	
39-40	NC	-	No connection.	

4.2 Touch interface: IIC

Pin No.	Symbol	I/O	Function
1-2	GND	P	Ground.
3-4	VCC	P	Power supply.
5	SCL	I	Serial interface clock.
6	SDA	I/O	Serial input/output data bus.
7	RST	I	Reset signal.
8	NT	O	External Interrupt pin.
9-10	GND	P	Ground.

5. Absolute Maximum Ratings(Ta=25℃)

5.1 Electrical Absolute Maximum Ratings.(Vss=0V ,Ta=25℃)

Item	Symbol	Min.	Max.	Unit	Note
Power Supply Voltage	DVDD	-0.3	3.96	V	1，2
	AVDD	-0.5	14.85		
	VGH	-0.3	VGL+42		
	VGL	-25	+0.3		
	V_{GH}-V_{GL}	-0.3	42		

Notes:

1. If the module is above these absolute maximum ratings. It may become permanently damaged. Using the module within the following electrical characteristic conditions are also exceeded, the module will malfunction and cause poor reliability.

2. V_{DD} >V_{SS} must be maintained.

5.2 Environmental Absolute Maximum Ratings.

Item	Storage		Operating		Note
	MIN.	MAX.	MIN.	MAX.	
Ambient Temperature	-30℃	80℃	-20℃	70℃	1,2
Humidity	-	-	-	-	3

1. The response time will become lower when operated at low temperature.

2. Background color changes slightly depending on ambient temperature.

   The phenomenon is reversible.

3. Ta<=40℃:85%RH MAX.

   Ta>=40℃:Absolute humidity must be lower than the humidity of 85%RH at 40℃.

6. Electrical Specifications and Instruction Code

6.1 Electrical characteristics(Vss=0V ,Ta=25℃)

Parameter		Symbol	Condition	Min	Typ	Max	Unit	Note
Power supply		VDD	Ta=25℃	3.0	3.3	3.6	V	
Power supply		VGH	Ta=25℃	17	18	19	V	
Power supply		VGL	Ta=25℃	-7	-6	-5	V	
Power supply		AVDD	Ta=25℃	9.1	9.6	10.1	V	
Power supply		VCOM	Ta=25℃	3.6	4.0	4.2	V	
Input voltage	'H'	V_{IH}	V_{DD}=3.3V	$0.7V_{DD}$	-	V_{DD}	V	
	'L'	V_{IL}	V_{DD}=3.3V	0	-	$0.3V_{DD}$	V	

Note:

1:When an optimum contrast is obtained in transmissive mode.

2: Tested in 1✕1 chessboard pattern.

7. Timing Characteristics

7.1 AC Characteristics

Parameter	Symbol	Condition	Spec.			Unit
			Min.	Typ.	Max.	
Clock frequency	R_{XFCLK}	-	20	-	71	MHz
Input data skew margin	T_{RSKM}	$\mid V_{ID} \mid$=400mV R_{XVCM}=1.2V R_{XFCLK}=71MHz	500	-	-	pS
Clock high time	T_{LVCH}	-	-	$4/(7xR_{XFCLK})$	-	ns
Clock low time	T_{LVCL}	-	-	$3/(7xR_{XFCLK})$	-	ns
PLL wake-up time	T_{enPLL}	-	-	-	150	μs

$1/R_{xFCLK}$

NINC

PINC

Previous Cycle   1Cycle

INDx

3V

VDD

T_{onPLL}

INC

Internal Clock

$1/R_{xFCLK}$

CLK

DATA

$R_{spos1(min)}$
$R_{spos1(max)}$
$R_{spos2(min)}$
$R_{spos2(max)}$
$R_{spos7(min)}$
$R_{spos7(max)}$

Ideal Strobe Position

T_{RSKM} T_{SW} T_{RSKM}

$R_{spos(min)}$ $R_{spos(max)}$

Ideal TX Pulse Position   Ideal TX Pulse Position

T_{RSKM} : Receiver strobe margin
R_{SPOS} : Receiver strobe position
T_{SW} : Strobe width (Internal data sampling window)

7.2 Data input format
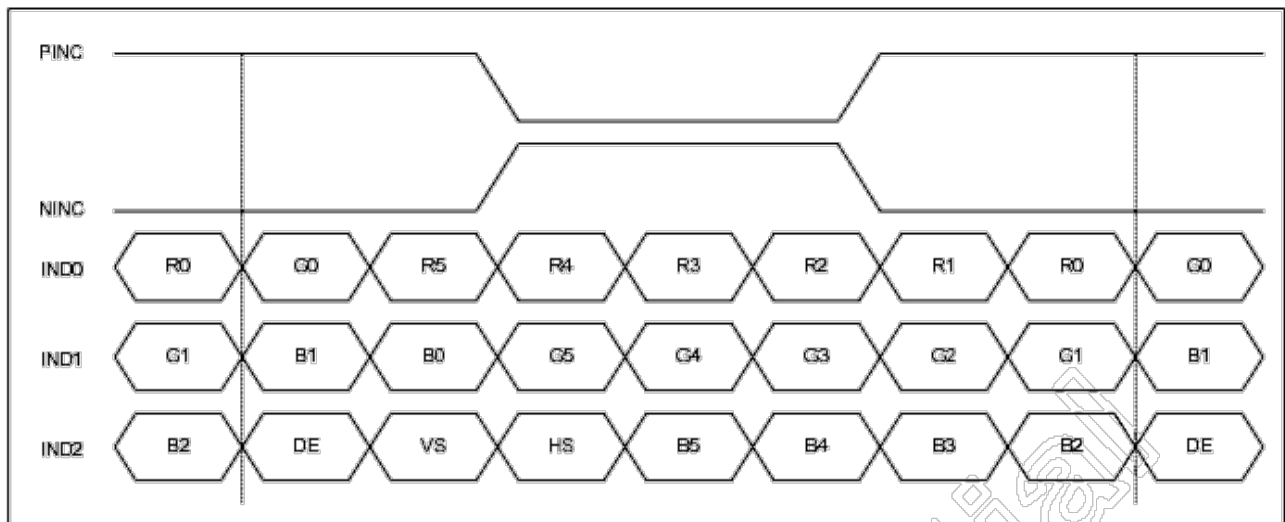
6-bit LVDS input
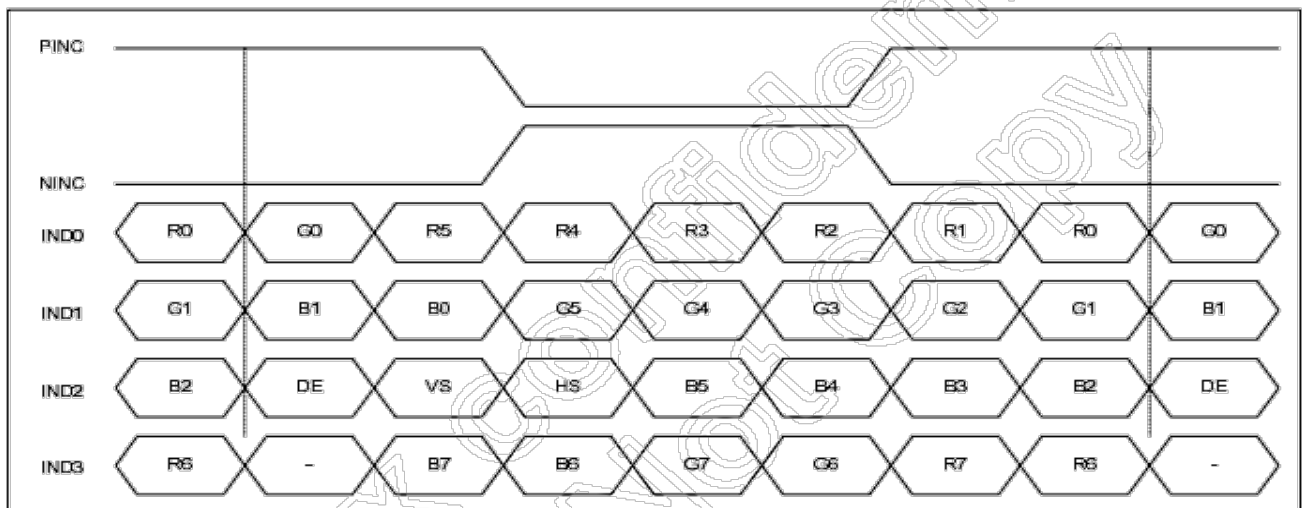
8-bit LVDS input

7.3 Input timing table

DE mode

Parameter	Symbol	Spec.			Unit
		Min.	Typ.	Max.	
DCLK frequency	fclk	40.8	51.2	67.2	MHz
Horizontal display area	thd		1024		DCLK
HSD period	th	1114	1344	1400	DCLK
HSD blanking	thb+thfp	90	320	376	DCLK
Vertical display area	tvd		600		T_H
VSD period	tv	610	635	800	T_H
VSD blanking	tvbp+tvfp	10	35	200	T_H

HV mode

● Horizontal timing

Parameter	Symbol	Spec.			Unit
		Min.	Typ.	Max.	
DCLK frequency	fclk	44.9	51.2	63	MHz
Horizontal display area	thd		1024		DCLK
HSD period	th	1200	1344	1400	DCLK
HSD pulse Width	thpw	1	-	140	DCLK
HSD back porch	thbp		160		DCLK
HSD front porch	thfp	16	160	216	DCLK

● Vertical timing

Parameter	Symbol	Spec.			Unit
		Min.	Typ.	Max.	
Vertical display area	tvd		600		T_H
VSD period	tv	624	635	750	T_H
VSD pulse width	tvpw	1	-	20	T_H
VSD back porch	tvbp		23		T_H
VSD front porch	tvfp	1	12	127	T_H

8.Backlight Characteristic

LED CIRCUIT DIAGRAM:

BL driving conditions:
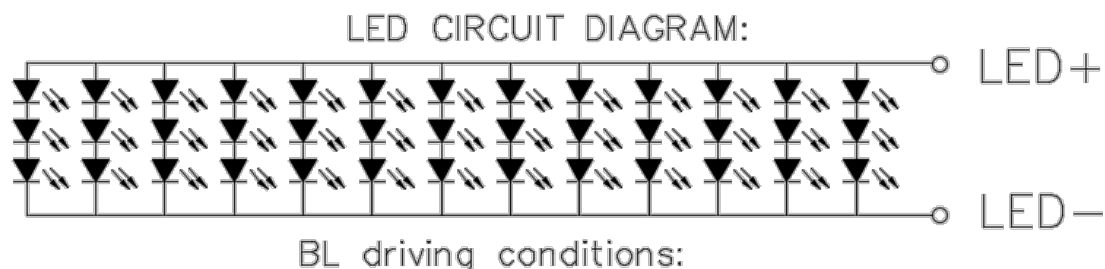
Item	Symbol	Min	Typ	Max	Unit	Test Condition
Supply Voltage	Vf	8.4	9.0	9.9	V	Note 1
Supply Current	If	-	260	-	mA	Note 2
Power dissipation	P_{BL}	-	2.34	-	W	
Life Time	-	30000	-	-	Hr	Note 3,4
Backlight Color	White					

Note 1: The LED Supply Voltage is defined by the number of LED at Ta=25℃ and If =140mA.

Note 2: LED current is measured by utilizing a high frequency current meter as shown below:
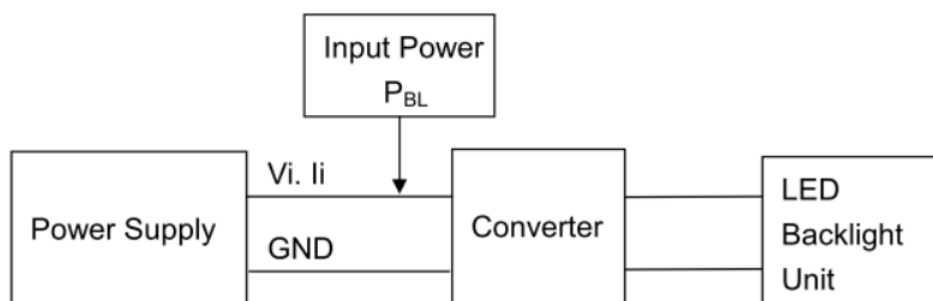
Note 3: The "LED life time" is defined as the module brightness decrease to 50% original brightness at Ta=25℃ and If =140mA. The LED lifetime could be decreased if operating If is larger than 140mA.

9. Optical Characteristics

Item	Symbol		Condition	Min.	Typ.	Max.	Unit	Note
Brightness	Bp		If=260mA	-	420	-	Cd/m^2	1
Uniformity	⊿Bp		If=260mA	-	75	-	%	1,2
Viewing Angle	3:00		Cr≥10	-	80	-	Deg	1,2
	6:00			-	80	-		
	9:00			-	80	-		
	12:00			-	80	-		
Contrast Ratio	Cr		θ=0° Φ=0°	-	800	-	-	3,4
Response Time	T$_{r+}$T$_f$			-	30	40	ms	4,5
Color of CIE Coordinate	W	x	θ=0° Φ=0°	0.2259	0.2759	0.3259	-	1,6
		y		0.2543	0.3043	0.3543	-	
	R	x		0.5344	0.5844	0.6344	-	
		y		0.282	0.332	0.382	-	
	G	x		0.2765	0.3265	0.3765	-	
		y		0.5482	0.5982	0.6482	-	
	B	x		0.0996	0.1496	0.1996	-	
		y		0.0546	0.1046	0.1546	-	
NTSC Ratio	S			-	50	-	%	

*The parameter is slightly changed by temperature, driving voltage and materiel

Note 1: The data are measured after LEDs are turned on for 5 minutes. LCM displays full white. The brightness is the average value of 9 measured spots. Measurement equipment CA310 Measuring condition:-Measuring surroundings: Dark room.-Measuring temperature: Ta=25°C.-Adjust operating voltage to get optimum contrast at the center of the display.

The measured value is more than 5 minutes at the center point of the LCD panel, and the backlight is turned on at the same time.
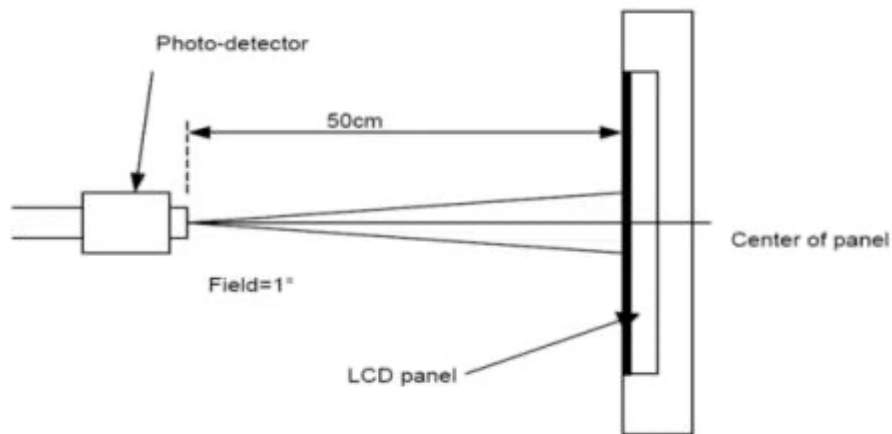
Note 2: The luminance uniformity is calculated by using following formula.

ΔBp = Bp (Min.) / Bp (Max.)×100 (%);Bp (Max.) = Maximum brightness in 9 measured spots Bp (Min.) = Minimum brightness in 9 measured spots.
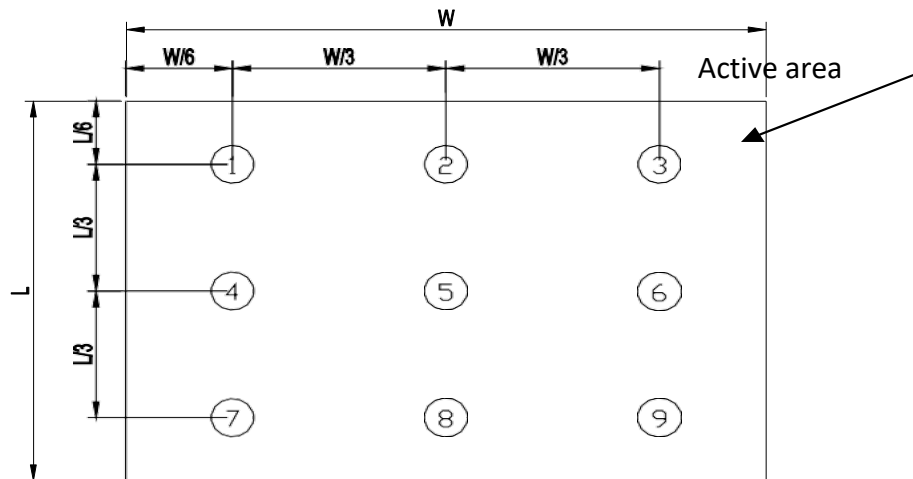
Note 3: The definition of viewing angle:Refer to the graph below marked by θ and Φ
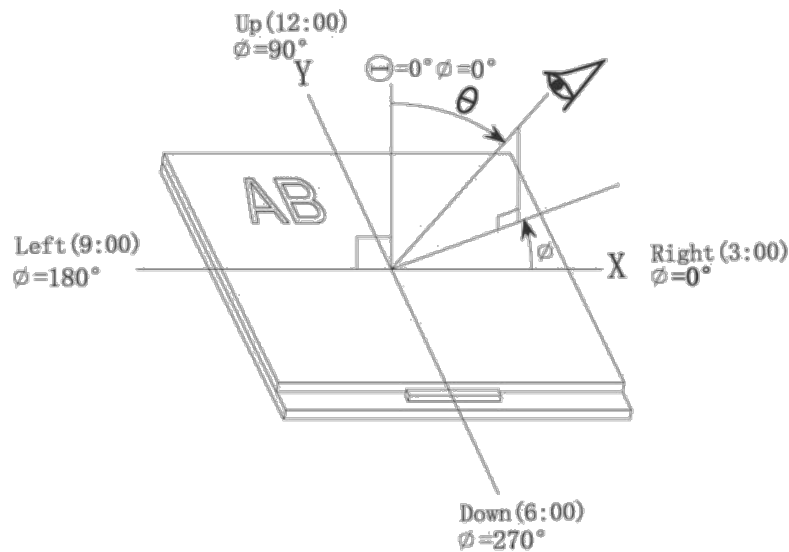
Note 4: Definition of contrast ratio Contrast measurements shall be made at viewing angle of Θ= 0 and at

the center of the LCD surface.Luminance shall be measured with all pixels in the view field set first to white, then to the dark (black) state.

$$CR = \frac{\text{Luminance when displaying a white raster}}{\text{Luminance when displaying a black raster}}$$

Note 5: Definition of Response time The output signals of photo detector are measured when the input signals are changed from "white" to "black"(Tf) and from "black" to "white"(Tr), respectively. The response time is defined   as the time interval   between the 10% and 90% of amplitudes. Refer to figure as below.
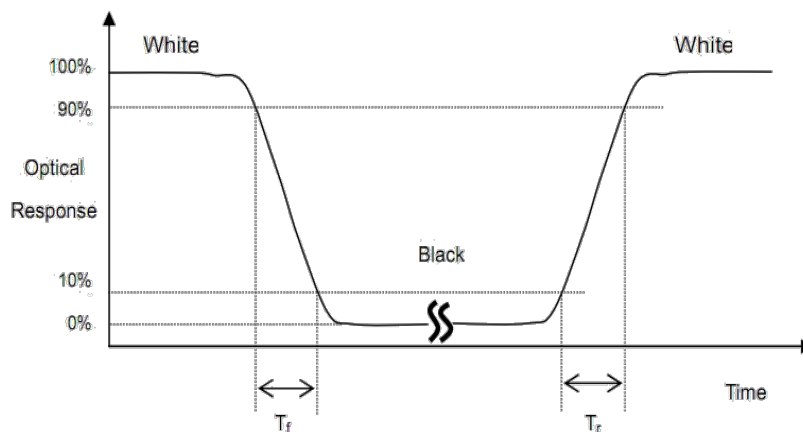
Note 6: Definition of Color of CIE Coordinate and NTSC Ratio.

1931 CIE Chromaticity Diagram
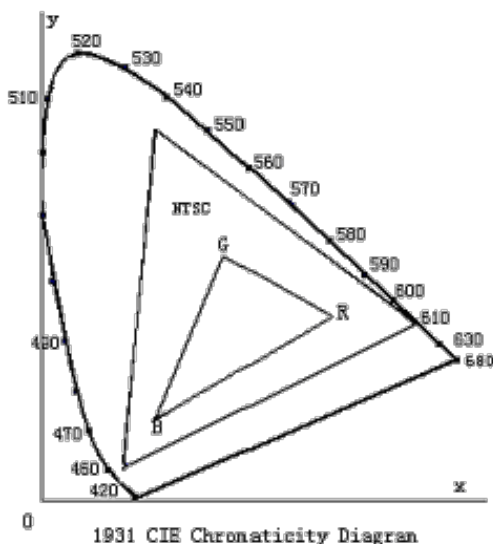
Color gamut:

$$S = \frac{\text{area of RGB triangle}}{\text{area of NTSC triangle}} \times 100\%$$

10. Reliability Test Conditions and Methods

No.	Test Items	Test Condition	Inspection After Test
①	High Temperature Storage	80°C±2°C×240Hours	Inspection after 2~4hours storage at room temperature, the samples should be free from defects: 1, Air bubble in the LCD. 2, Seal leak. 3, Non-display. 4, Missing segments. 5, Glass crack. 6, Current IDD is twice higher than initial value. 7, The surface shall be free from damage. 8, The electric characteristic requirements shall be satisfied. 9.Brightness reduction more than 50%.
②	Low Temperature Storage	-30°C±2°C×240Hours	
③	High Temperature Operating	70°C±2°C×240Hours	
④	Low Temperature Operating	-20°C±2°C×240Hours	
⑤	Temperature Cycle(Storage)	-30°C ⟷ 80°C (30min) (5min) (30min) 1cycle Total 10cycle.	
⑥	Damp Proof Test (Storage)	60°C±5°C×90%RH×240Hours	

REMARK:

1, The Test samples should be applied to only one test item.

2, Sample side for each test item is 5~10pcs.

3,For Damp Proof Test, Pure water(Resistance＞10MΩ)should be used.

4,In case of malfunction defect caused by ESD damage, if it would be recovered to normal state after resetting, it would be judge as a good part.

5, EL evaluation should be accepted from reliability test with humidity and temperature: Some defects such as black spot/blemish can happen by natural chemical reaction with humidity and Fluorescence EL has.

6, Failure Judgment Criterion: Basic Specification Electrical Characteristic, Mechanical Characteristic, Optical Characteristic.

11. Inspection Standard

11.1 Scope

Specifications contain
11.1.1 Display Quality Evaluation
11.1.2 Mechanics Specification

11.2 Sampling Plan

Unless there is other agreement, the sampling plan for incoming inspection shall follow MIL-STD-105E.
11.2.1 Lot size: Quantity per shipment as one lot (different model as different lot).
11.2.2 Sampling type: Normal inspection, single sampling.
11.2.3 Sampling level: Level II.
11.2.4 AQL: Acceptable Quality Level
Major defect: AQL=0.65
Minor defect: AQL=1.5

11.3 Panel Inspection Condition

11.3.1 Environment:
Room Temperature: 25±5°C.
Humidity: 65±5% RH.
Illumination: 300 ~ 700 Lux.

11.3.2 Inspection Distance:
35±5 cm

11.3.3 Inspection Angle:
The vision of inspector should be perpendicular to the surface of the Module.
11.3.4 Inspection time：
Perceptibility Test Time: 20 seconds max.
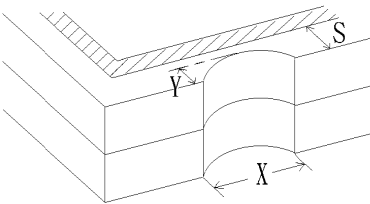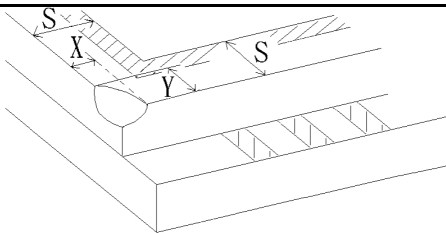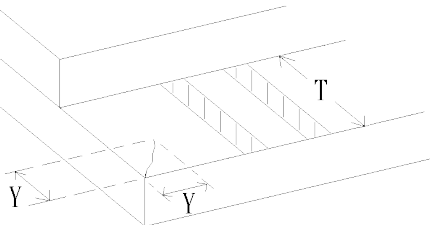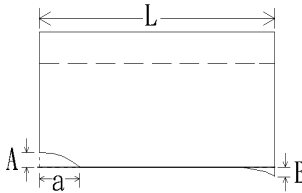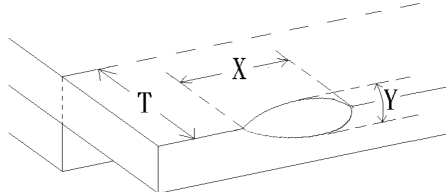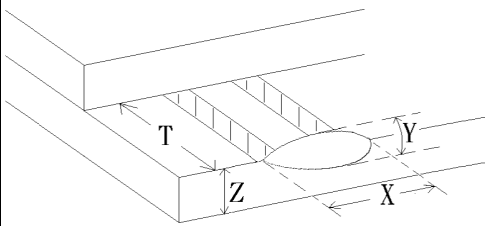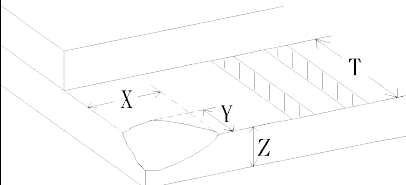
M j11.4 Inspection Plan

Class	Item	Judgment	Class
Packing & Indicate	1. Outside and inside package.	"MODEL NO.", "LOT NO." and "QUANTITY" should indicate on the package.	Minor
	2. Model mixed and quantity.	Other model mixed Quantity short or over	Major
	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
Appearance	5. Viewing area.	Polarizer edge or LCD's sealing line is visible in the viewing area…….Rejected.	Minor
	6. Blemish, black spot, white spot in the LCD and LCD glass cracks.	According to standard of visual inspection.(inside viewing area)	Minor
	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 LCD……………………….....Rejected. Or according to limited sample.(if needed, and inside viewing area)	Minor
Electrical	10. Electrical and optical characteristics.(contrast Vop chromaticity….etc)	According to specification or drawing.(inside viewing area)	Major
	11. Missing line.	Missing dot line character	Major
	12.Short circuit. Wrong pattern display.	No display, wrong pattern display, current consumption. Out of specification	Major
	13. Dot defect.(for color and TFT)	According to standard of visual Inspection.	Minor

11.5 Standard Of Visual Inspection

NO.	CLASS	ITEM	JUDGMENT
11.5.1	Minor	Black and white spot. Foreign materiel. Dust. Blemish. Scratch.	(A) Round type: Unit: mm 	Diameter (mm.)	Acceptable Q'ty
---	---
Φ≦0.2	Disregard
0.2 < Φ≦0.5	2(Distance>10mm)
0.50 < Φ	0 | Note: Φ = (length+width)/2 (B) Linear type: Unit: mm | Length	Width (mm.)	Acceptable Q'ty
---	---	---
--	W≦0.05	Disregard
L≦3.0	0.05< W≦0.1	2(Distance>10mm)
--	0.1 < W	Not allow	
11.5.2	Minor	Dent on polarizer.	Unit: mm. 	Diameter	Acceptable Q'ty
---	---
Φ≦0.2	Disregard
0.2 < Φ≦0.5	2(Distance>10mm)
0.50 < Φ	0	
11.5.3	Minor	Bubble in polarizer.	Unit: mm. 	Diameter	Acceptable Q'ty
---	---
Φ≦0.2	Disregard
0.2 < Φ≦0.5	2(Distance>10mm)
0.50 < Φ	0	
11.5.4	Minor	Dot defect		Items	Acceptable Q'ty
---	---
Bright dot	N ≦3
Dark dot	N ≦3
Total dot	N ≦6	 Pixel define : Note1: The definition of dot: The size of a defective dot over 1/2 of whole dot is regarded as one defective dot. Note 2: Bright dot: Dots appear bright and unchanged in size in which LCD panel is displaying under black pattern. Note 3: The bright dot defect must be visible through 2% ND filter Note 4: Dark dot: Dots appear dark and unchanged in size in which LCD panel is displaying under pure red, green, blue

11.5.5	Minor	LCD glass chipping.		Y>S Reject
11.5.6	Minor	LCD glass chipping.		X or Y>S Reject
11.5.7	Major	LCD glass crack.		Y>(1/2) T Reject
11.5.8	Major	LCD glass scribe defect.		1. a>L/3, A>1.5mm Reject 2. B : According to dimension
11.5.9	Minor	LCD glass chipping. (on the terminal area)		$\Phi = (x+y)/2 > 2.5mm$ Reject
11.5.10	Minor	LCD glass chipping. (on the terminal surface)		Y>(1/3)T Reject
11.5.11	Minor	LCD glass chipping.		Y>T Reject

12. Handling Precautions

12.1 Mounting method

The 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 electro chemical 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.

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 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.

- END