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LI10600T070IA3098-TCF

7.0 inch, 1024×600, IPS screen with wide viewing angle, air bonding CTP

Disclaimer: The product design is subject to alternation and improvement without prior notice.

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Table of Contents

1 General Feature	
2 Mechanical Drawing	
3 Input/Output Terminals	
4 Electrical Characteristics	
5 Timing Characteristics	
6 Optical Characteristics	
7 Environmental Reliability Test	
8 Packing Capacity & Dimension	
9 Appearance Inspection	
10 Precautions for Use of LCD Modules	
11 Laminated Screen Introduction	

1 General Feature

1.1 LCD Parameters

	Feature	Description	Unit
	Size	7.0	inch
Display Spec.	Resolution	1024(H)*600(V)	pixels
	Pixel Configuration	RGB stripe	
	Pixel Pitch	0.0502(H)*0.1432(V)	mm
	Viewing Direction	ALL	-
	Outside Dimension	165.0(W)*100.0(H)*3.5(D)	mm
	Active Area	154.21(W)*85.92(H)	mm
Mechanical Characteristics	Luminance	250	cd/m²
	LED Numbers	21 LEDS	-
	Pin Order	From left to right 50PIN_0.5mm	-
	Weight	-	g
	Interface	RGB_24bit	-
Electrical Characteristics	Color Depth	16.7M	colors
	Driver IC	HX8282-A11DPD300+HX8696-A01APD300 EK79001HK + EK73215BCGA	-
Temperature	Operating Temp.	-20~70	°C
Range	Storage Temp.	-30~80	°C

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1.2 Touch Parameters

Feature	Description
Туре	CTP (Capacitive touch panel)
Structure	G+G
Outline Size(mm)	164.6(L)*99.7(W)*1.6(T)
View Area(mm)	154.08(L)*85.92W)
Control Type	GT911
Surface Hardness	6H
Light Transmittance	≥85%
Operating Temperature	-10~60 ℃
Storage Temperature	-20~70℃

Note: Requirements on Environmental Protection: RoHS

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You can use dynamic screen saver wallpapers to avoid afterimages caused by fixed paper display for a long time.

2 Mechanical Drawing

г			A				B	С Ф	
1	Mark "*"	5. GENERAL T	4.Backlight	2. OPERATING 3. STORAGE T	NOTES: 1. DISPLAY T		Notes: 1. Operating Storage 1 2. Transmitt 3. IC:GT911.	-44.62±0.5 100±0.2 (Outline) 85.92±0.1 (window)	
22		Module Brightness:300cd/m ² (typ) GENERAL TOLERANCE:+0.2mm	LEDs	2. OPERATING TEMP:-20°C 70°C; 3. STORAGE TEMP:-30°C 80°C;	NOTES: 1. DISPLAY TYPE : 16. 7M COLOR TFT-LCD, TRANSMISSIVE, NORMALLY WHITE;		.es: Operating Temperature: -10°C~60°C Storage Temperature: -20°C~70°C Transmittance: ≥86% IC:GT911. Channel:21*12	67.22 69.47±0.5 105.51±0.5 SCALE:4	
ω	in line with "RoHS"	c)	If=140mA;		-LCD, TRANSMISSIVI	sive)	00°C)=24.50±0.1	
4	standard				E, NORMALLY WHITE;			5. 13±0. 3 (Totol Thickness) 3. 5±0. 3 Athesive T=0. 15mm Parel T=0. 25 Nathesive T=0. 15mm Parel T=0. 25 IIO Glass T=1. 1mm PI Stiffener Area 0.1 0. 3±0. 05	
	VER	D/N	TITLE	t		21 LEDs LED CI		ener	
י ת י	A REV		LCM OUT	F	NWIN Ter	LEDs VLed=8.5V I LED CIRCUIT DIAG	A o	48±0.1	c
ч.	00	PAGE	OUTLINE DIMENSION		echnology	LJ 5V Iled=20*7mA 5IAGRAM	0.	5±0.2	¢
	APPROVED	CHECK	N PREPARED	SCALE	MODULE	3.5±0. P0.5*(50-1)=24. 25.5±0. DETAIL SCALE: 4:	0.5±0.1		
7				E NTS	LE NO: LIIC	D-1)=24.50 5.5±0.1 DETAIL SCALE:4:1	-0.35-m-	22222222222222222222222222222222222222	-
_	DATE	DATE	DATE	UNIT	NO: LI10600T070IA3098-TCF	50 ± 0.05	0.5 50	1 ULED+ 2 2 VLED+ 3 3 VLED- 4 4 VLED- 3 7 DVDD 8 9 VLED- 10 10 VSDD 11 11 B7 12 12 B7 13 11 B5 4 11 B5 4 12 B7 13 14 B5 4 15 B4 15 16 B3 4 17 B2 67 18 B1 4 19 67 4 22 65 2 26 61 2 27 60 2 28 K 7 2 26 1 2 27 60 2 28 8 2 27 60 2 <td>PIN DE</td>	PIN DE
~		_			098-T			31 R4 32 R3 33 R2 33 R2 34 R1 35 R0 36 GND 37 DCLX 38 GND 39 SHLR 41 VGL 42 VGL 43 MC 44 RCSET 45 GND 46 VCON 47 DTHBB 48 GND 49 NC 50 NC 51 S 52 S 54 S 55 S 56 S 57 S 58 S 59 S 56 S 57 S 58 S 59 S 59 S 50 S 56	INITIO

3 Input/Output Terminals

3.1 LCD Input/Output Terminals

Pin NO.	Symbol	Function	Remark
1	VLED+	Power for LED backlight (Anode)	
2	VLED+	Power for LED backlight (Anode)	
3	VLED-	Power for LED backlight (Cathode)	X
4	VLED-	Power for LED backlight (Cathode)	
5	GND	Power ground	
6	VCOM	Common voltage	
7	DVDD	Power for Digital Circuit	r *
8	MODE	DE/SYNC mode select	
9	DE	Data Input Enable	
10	VS	Vertical Sync Input	
11	HS	Horizontal Sync Input	
12-19	B7-B0	Blue data	
20-27	G7-G0	Green data	
28-35	R7-R0	Red data	
36	GND	Power Ground	
37	DCLK	Sample clock	
38	GND	Power Ground	
39	L/R	Left / right selection	
40	U/D	Up/down selection	
41	VGH	Gate ON Voltage	
42	VGL	Gate Off Voltage	
43	AVDD	Power for Analog Circuit	
44	RESET	Global reset pin.	
45	NC	No connection	
46	VCOM	Common Voltage	
47	DITHB	Dithering function	
48	GND	Power Ground	
49	NC	No connection	
50	NC	No connection	

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Note 1: DE/SYNC mode select. Normally pull high.

When select DE mode, MODE="1", VS and HS must pull high.

When select SYNC mode, MODE= "0", DE must be grounded.

Note 2: When input 18 bits RGB data, the two low bits of R, G and B data must be grounded.

Note 3: Data shall be latched at the falling edge of DCLK.

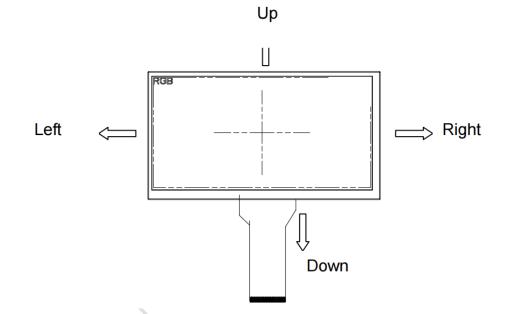
Note 4: Selection of scanning mode.

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Setting of scan control	input	Scanning direction
U/D	L/R	X
GND	DVDD	Up to down, left to right
DVDD	GND	Down to up, right to left
GND	GND	Up to down, right to left
DVDD	DVDD	Down to up, left to right

Note 5: Definition of scanning direction.

Refer to the figure as below:



Note 6: Global reset pin. Active low to enter reset state. Suggest to connect with an RC reset circuit for stability. Normally pull high.

Note 7: Dithering function enable control, normally pull high.

When DITHB="1", disable internal dithering function.

When DITHB="0", enable internal dithering function.

3.2 TP Input/Output Terminals

Pin NO.	Logic	Remark
	SCL	
2	SDA	
3	INT	
4	GND	
5	VDD-3.3V	
6	RST	

4 Electrical Characteristics

4.1 Driving TFT LCD Panel

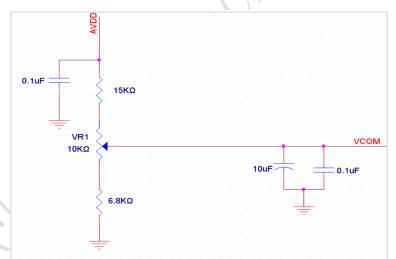
ltem	Symbol	Min	Тур.	Мах	Unit	Remark
Power voltage	DVdd	3.0	3.3	3.6	V	Note 2
	AVDD	10.2	10.4	10.6	V	X
	VGн	15	17.0	19	V	0),
	VG∟	-9.0	-7.0	-5.0	V	
Input signal voltage	Vсом	4.35	5.35	6.35		Note 4
Input logic high voltage	Vін	0.7DVdd	-	DVdd	V	Note 3
Input logic low voltage	Vı∟	0	-	0.3DVdd	V	

Note 1: Be sure to apply DVDD and VGL to the LCD first, and then apply VGH.

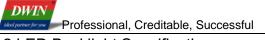
Note 2: DVDD setting should match the signals output voltage (refer to Note 3) of customer's system board.

Note 3: DCLK, HS, VS, RESET, U/D, L/R, DE, R0~R7, G0~G7, B0~B7, MODE, DITHB.

Note 4: Typical VCOM is only a reference value. It must be optimized according to each LCM. Please use VR and base on below application circuit.

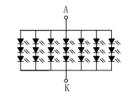


	Item	Symbol	Min	Тур.	Мах	Unit	Remark
	Current for Driver	IGн	3.0	0.2	1.0	mA	VG _H =16.0V
$\overline{\zeta}$		IG∟	10.2	0.2	1.0	mA	VGL= -7.0V
		IDVDD	15	4.0	10	mA	DVDD =3.3V
		IAVDD	-9.0	20	50	mA	AVDD=10.4V



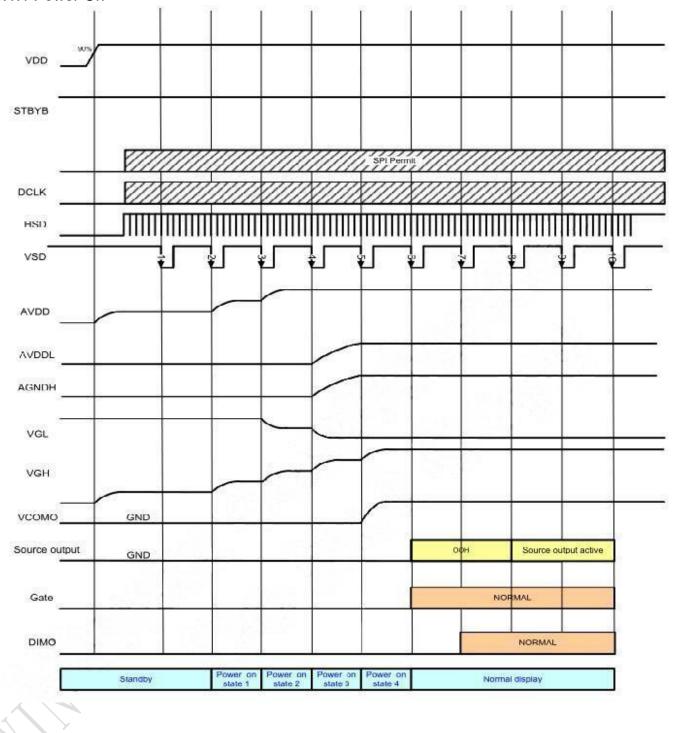
4.2 LED Backlight Specification Symbol Item Min Тур. Max Unit Remark Voltage for LED backlight V Vι 10.2 8.4 9.3 Current for LED backlight 120 140 160 ١L mΑ LED Life-Time -20000 -Hr _

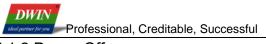
Note: 21 LEDs (3 LEDs Serial, 7 ways Parallel)



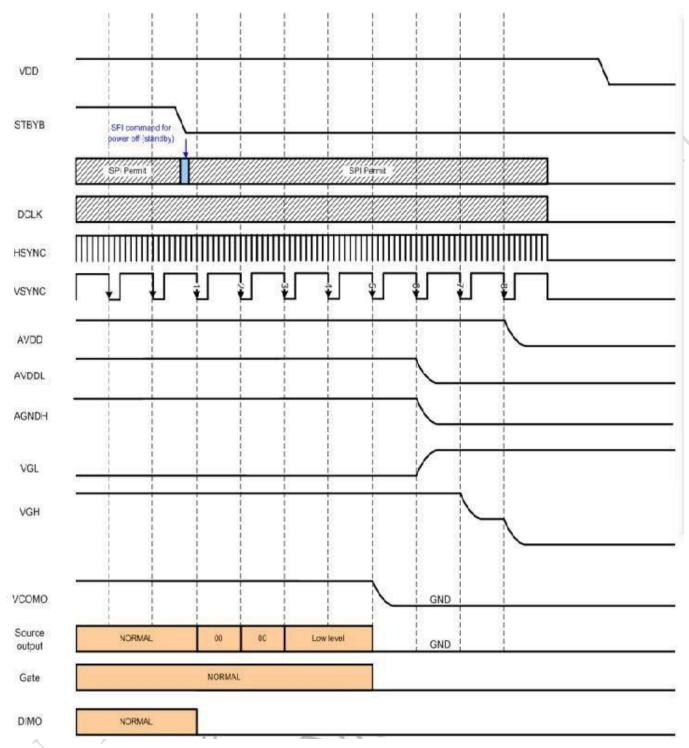
ht r

- 5.1 Power On/Off sequence
- 5.1.1 Power On





5.1.2 Power Off



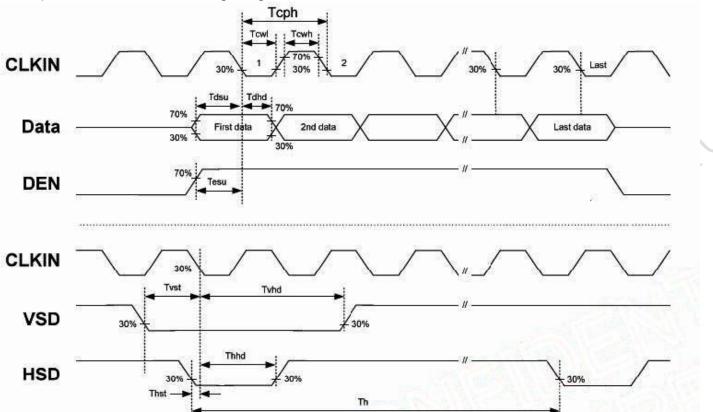
Note: (1) Low level=3FH, when NBW=L. (Normally white) (2) Low level=00H, when NBW=H. (Normally black)

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5 2 AC Electrical Characteristics

HS setup time HS hold time VS setup time VS hold time	Thst Thhd Tvst Tvhd	8.0 8.0 8.0	-	-	nS nS	
VS setup time	Tvst		-	-		
		8.0	-	-	" C	
VS hold time	Tuba				nS	
	I VIIU	8.0	-	-	nS	
Data setup time	Tdsu	8.0	-	-	nS	
Data hole time	Tdhd	8.0	-	-	nS	0
DE setup time	Tesu	8.0	-	- \	nS	
DE hole time	Tehd	8.0	-		nS	
DVDD power on slew rate	TPOR	-	• (20	mS	From 0 to 90% DVDI
RESET pulse width	TRst	1		-	mS	
DCLK cycle time	Tcoh	20		-	nS	
DCLK pulse duty	Tcwh	40	50	60	%	
	21000					

5.3 Input Clock and Data Timing Diagram

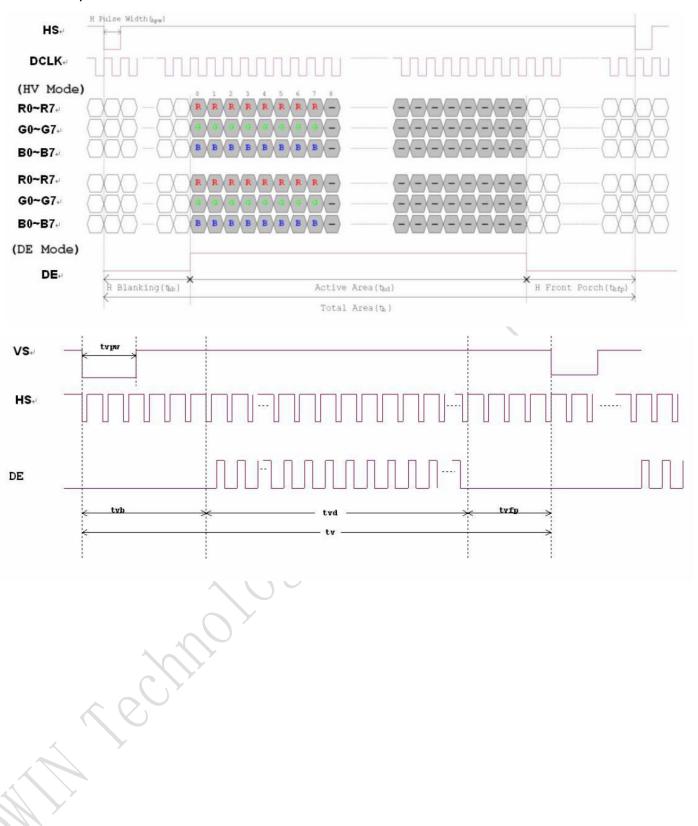


5.4 Timing

ltem	Symbol	Min.	Тур.	Max.	Unit	Remark
Horizontal display area	thd	-	1024	-	DCLK	
DCLK frequency	fclk	40.8	51.2	67.2	MHz	
One horizontal line	th	1114	1344	1400	DCLK	
HS pulse width	thpw	1	-	40	DCLK	
HS blanking	thb	46	46	46	DCLK	
HS front porch	thfp	10	35	200	DCLK	

Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Vertical display area	tvd	-	600	-	TH	
VS period time	tv	624	635	750	TH	
VS pulse width	tvpw	1	-	20	TH	
VS blanking	tvb	23	23	23	TH	

5.5 Data Input Format

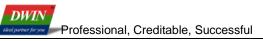


6 Optical Characteristics

Item	Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
	Тор		-	80	-		
	Bottom	CR≧10	-	80	-	Dog	Note 2,3
Viewing Angle	Left	CR = 10	-	80	-	Deg.	Note 2,5
	Right		-	80	-		
Contrast Ratio	CR	θ=0°	800	1000			Note 3
	T _{ON}	θ=0°	-	10	20	ms	Note 2
Response Time	T _{OFF}	0=0	-	15	30	ms	Note 3
Color Chromoticity	Wx		0.272	0.292	0.332		Note 4.5
Color Chromaticity	Wy		0.298	0.302	0.358		Note 1,5
Luminance	L		250	300	-	cd/m2	
Uniformity(with L/G)	YU		75	80	-	%	

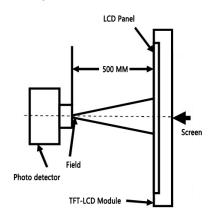
Test conditions:

IF= 140 mA, and the ambient temperature is 25° C.

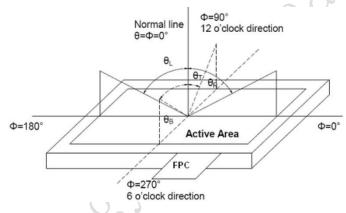


Note 1: Definition of optical measurement system.

The optical characteristics should be measured in dark room. After 5 minutes operation, the optical properties are measured at the center point of LCD.



Note 2: Definition of viewing angle range and measurement system. The viewing angle is measured at the center point of the LCD by BM-7A.



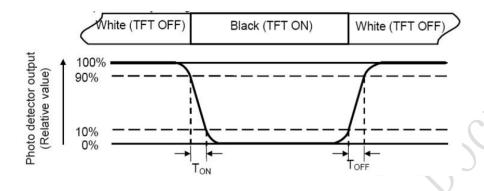
Note 3: Definition of contrast ratio.

 $Contrast ratio (CR) = \frac{Luminance measured when LCD is on the "White" state}{Luminance measured when LCD is on the "Black" state}$

"White state ": The state is that the LCD should drive by Vwhite. "Black state": The state is that the LCD should drive by Vblack. Vwhite: To be determined Vblack: To be determined. dual partner for you Professional, Creditable, Successful

Note 4: Definition of response time.

The response time is defined as the LCD optical switching time interval between "White" state and "Black" state. Time ON (TON) is the time between photo detector output intensity changed from 90% to 10%. And time off (TOFF) is the time between photo detector output intensity changed from 10% to 90%.



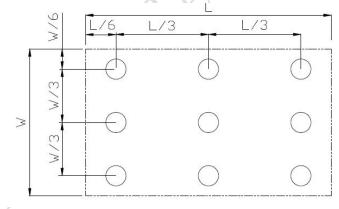
Note 5: Definition of color chromaticity (CIE1931). Color coordinates measured at center point of LCD.

Note 6: Definition of luminance uniformity.

Active area is divided into 9 measuring areas (Refer Fig. 2). Every measuring point is placed at the center of each measuring area.

Luminance Uniformity (U) = Lmin/ Lmax

L-----Active area length W----- Active area width



Note 7: Definition of luminance.

Measure the luminance of white state at center point.



7 Environmental Reliability Test

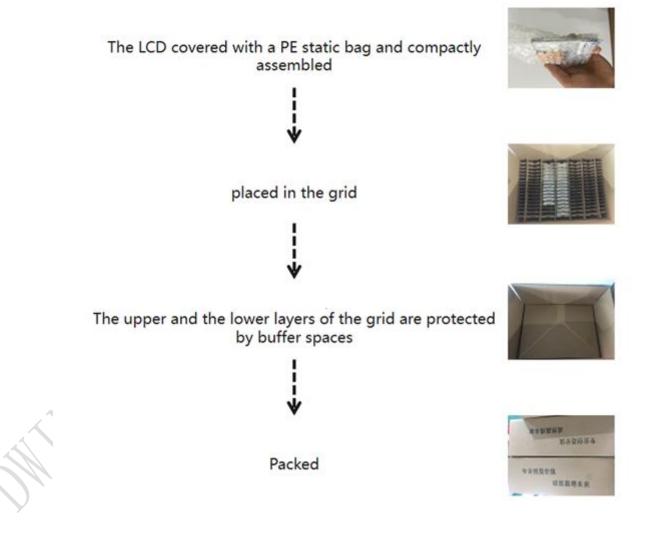
NO	Test Item	Condition	Remarks
1	High Temperature Operation	Ta=+70℃,240hours	IEC60068-2-1:2007
			GB2423.2-2008
2	Low Temperature Operation	Ta=-20℃,240hours	IEC60068-2-1:2007
2			GB2423.1-2008
3	High Temperature Storage	Ta=+80℃,240hours	IEC60068-2-1:2007
0			GB2423.2-2008
4	Low Temperature Storage	Ta=-30℃,240hours	IEC60068-2-1:2007
-	Low Temperature Otorage		GB2423.1-2008
5	Storage at High Temperature	Ta=+60℃,90% RH max,240hours	IEC60068-2-78 :2001
Ŭ	and Humidity		GB/T2423.3-2006
			Start with cold
		-30℃ 30 min~+85℃ 30 min,	temperature,
6	Thermal Shock (non-operation)	for a total 100cycles, Start with cold	End with high
0		temperature and end with high temperature.	temperature,
		temperature and end with high temperature.	IEC60068-2-14:1984,
			GB 2423.22-2002
7	ESD(non-operation)	\pm 2KV, Human Body Mode,	IEC61000-4-2:2001
		100pF/1500 Ω	GB/T 17626.2-2006
		Frequency range:10~55Hz	
		Stroke:1.5mm	
8	Vibration Test		IEC60068-2-6:1982
		Sweep:10Hz~55Hz~10Hz	GB/T 2423.10-1995
		2 hours for each direction of X.Y.Z.	
		(6 hours for total)	
9	Mechanical Shock	Half Sine Wave 60G 6ms, ±X, ±Y, ±Z	IEC60068-2-27:1987 GB/T 2423.5-1995
_	(non-operation)	(non-operation) 3times for each direction	
10	Package Drop Test	Height:60cm,1corner,3 edges,6 surfaces	IEC60068-2-32:1990
10	r dendge brop lob.		GB/T 2423.8-1995

8 Packing Capacity & Dimension

Dimension					
Dimension(mm)	164.90(W)*100.00(H)*5.13(D)				
Net Weight -					
Packing Capacity					
Size	LCD Size and Resolution	Layer	Quantity (Pcs)		
250mm(L)x200mm(W)x80mm(H)	7.0 inch 1024*600	1	1		
600mm(L)x450mm(W)x300mm(H)	7.0 inch 1024*600	1	80		

Packing instruction:

The LCD+TP is placed in the grid, covered with a PE static bag and compactly assembled, the upper and the lower layers of the grid are protected by buffer spaces.



9 Appearance Inspection

9.1 General rules for inspection

9.1.1 Anti-static wearables (anti-static wristbands, gloves) must be worn during the inspection.

9.1.2 Do not use bare hands to touch the position of the device, golden fingers, and the surface of the screen to prevent the sweat from human hands from causing oxidation and affecting the appearance.

9.1.3 It is forbidden to stack products out of specification and handle them with care to avoid damage to components.

9.1.4 The repaired products need to be inspected to prevent rosin and tin slag from exceeding the specifications.

9.1.5 When technical documents and process documents have specific requirements for products, the technical documents and process documents shall be the main requirements.

9.2 Inspection conditions

9.2.1 The conditions of display function check

Angle: ±5°;

Inspection method: visual inspection. The inspection object is 30-40cm away from the light source, and the eye is 30-40cm away from the inspection object;

Illumination: 300-500Lux;

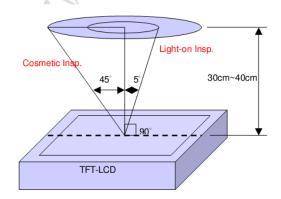
Inspection time: 5-10S.

9.2.2 Visual inspection conditions

Angle: ±45°;

Inspection method: visual inspection. The inspection object is 30-40cm away from the light source, and the eye is 30-40cm away from the inspection object;

Illumination: 800-1500Lux; Inspection time: 5-10S.



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9.3 Inspection standard

Туре	Test Items	Judgement Standard	Defect Category
	Dead pixels	No dead pixels	
Display state	mura	From different angles, the brightness is required to be uniform. Under the 64-level grayscale or pure black interface, there should be no uneven display brightness within the viewing angle range of 45° through 6% ND FILTER. Y series (TV film) LCD screen does not have specific requirements, and the picture inspection does not affect the display as qualified. Uneven brightness Black and white mottled	Slight defect
	Light leakage	Under the 64-level grayscale or pure black interface, there should be no obvious light leakage within the viewing angle range of 45° by visual inspection or through 6% ND FILTER. Y series (TV LCD screen) series can be without obvious visual defects.	Slight defect
	Linear foreign bodies	 1. W≤0.05, L≤2mm, negligible; 2. 0.05mm<w≤0.1mm, li="" l≤2mm,="" n≤3;<=""> 3. W>0.1mm, L>2mm, not allowed. </w≤0.1mm,>	Slight defect
	Bubble in OCA	 D<0.20mm, negligible; 0.20mm<d≤0.30mm, and,="" ds="" n≤4="">10mm;</d≤0.30mm,> 0.30mm<d≤0.35mm, and,="" ds="" n≤3="">10mm;</d≤0.35mm,> 0.35mm<d, fault.<="" li=""> (Guarantee area: within 0.2mm outside VA) </d,>	Slight defect
Screen surface	Within the effective area	Spotted: 1. $D \le 0.2mm$ and it is not a piece, it is not counted; 2. $0.2mm < D \le 0.5mm$, $N \le 3$; 3. $D > 0.5mm$, $L > 0.5mm$, $W > 0.5mm$ are not allowed; (The spotted foreign objects shall not exceed the point-line gauge D=0.5, and the black dot coverage shall be checked, and the spotted foreign objects shall be judged within the range of D=0.5) Linear: 1. $W \le 0.05$, $L \le 2mm$, ignored; 2. $0.05 < W \le 0.1mm$, $L \le 2mm$, $N \le 3$; 3. $W > 0.1mm$, $L > 2mm$, not allowed.	Slight defect
	Outside the effective area Foreign objects Scratches Air bubbles	Foreign objects are not checked, and bubbles are not allowed to D>1mm; Non-inductive scratches of no more than 0.1×8mm are allowed.	Slight defect

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LI10600T070IA3098-TCF_datasheet Product Specification

			peemeation
	Crack	Not allowed.	Slight defect
	Notch	1. Does not affect the appearance from the front;2. Does not affect the relevant alignment;3. X \leq 1mm, Y \leq 1mm, N \leq 2.	Slight defect
	Glass side Foreign objects Dirty	 The foreign body on the side is not controlled; The paint pen marks on the side are not controlled; Side oily note printing is not allowed. 	Slight defect
	Cracks Goldfinger crease	Not allowed.	Heavy deficit
	Crease	Slight creases are not controlled; The crease is whitish and has lines, which is not allowed.	Heavy deficit
	Top wound,	No damage to the line, D≤0.2mm;	Heavy
FDO	stab wound	Damage to the line is not allowed.	deficit
FPC	Saratah	Slight scratches on the surface are not controlled;	Heavy
	Scratch	Damage to the line is not allowed.	deficit
	Goldfinger scratch	$W \leqslant 0.05$ mm, no control; W > 0.05mm, not allowed; Test probe tip marks are not controlled.	Heavy deficit
	Component	Under-soldering, over-soldering and false soldering are not allowed.	Heavy deficit

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10 Precautions for Use of LCD Modules

10.1 Handling Precautions

10.1.1 The display panel is made of glass. Do not subject it to a mechanical shock by dropping it from a high place, etc.

10.1.2 If the display panel is damaged and the liquid crystal substance inside it leaks out, be sure not to get any in your mouth, if the substance comes into contact with your skin or clothes, promptly wash it off using soap and water.

10.1.3 Do not apply excessive force to the display surface or the adjoining areas since this may cause the color tone to vary.

10.1.4 The polarizer covering the display surface of the LCD module is soft and easily scratched. Handle this polarizer carefully.

10.1.5 If the display surface is contaminated, breathe on the surface and gently wipe it with a soft dry cloth. If still not completely clear, Can only use LCD dedicated cleaner, the following organic solvent can not be used:

Isopropyl alcohol

- Ethyl alcohol
- Ketone
- Aromatic solvents

10.1.6 Do not attempt to disassemble the LCD Module.

10.1.7 If the logic circuit power is off, do not apply the input signals.

10.1.8 To prevent destruction of the elements by static electricity, be careful to maintain an 10.1.9 optimum work environment.

10.1.9.1 Be sure to ground the body when handling the LCD Modules.

10.1.9.2 Tools required for assembly, such as soldering irons, must be properly ground.

10.1.9.3 To reduce the amount of static electricity generated, do not conduct assembly and other work under dry conditions.

10.1.9.4 The LCD Module is coated with a film to protect the display surface. Be care when peeling off this protective film since static electricity may be generated.

10.2 Storage precautions

10.2.1 When storing the LCD modules, avoid exposure to direct sunlight or to the light of fluorescent lamps.

10.2.2 The LCD modules should be stored under the storage temperature range. If the LCD modules will be stored for a long time, the recommend condition is:

Temperature: $0^{\circ}C \sim 40^{\circ}C$ Relatively humidity: $\leq 80\%$.

10.2.3 The LCD modules should be stored in the room without acid, alkali and harmful gas. 10.3 Transportation Precautions

10.3.1 The LCD modules should be no falling and violent shocking during transportation, and also should avoid excessive press, water, damp and sunshine.

11 Laminated Screen Introduction

DWIN adopts original class A glass and the entire production is in the park from cleaning, cutting, bonding, and laminating of large glass to backlight assembly, quality inspection, and aging.

There are 12,000 square meters of clean workshop, with a monthly production capacity of about 2.5 million pieces. Each piece of LCD produced in the factory is for 30 days of aging.

11.1 Laminated screen classification

The laminated screen is mainly composed of cover glass, TP and LCD. The lamination methods can be either frame lamination or full lamination. The frame lamination process fixes TP with the four sides of LCD by 3M adhesive, which is one of the most common lamination methods. Full lamination is to seamlessly bond LCD and TP by optical adhesive. Compared to frame lamination, full lamination features by moisture-proof, dust-proof, high stability, high quality display, and can achieve the visible display under strong light.

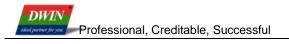
11.2 ODM service

DWIN technology has built the Huan DWIN Science Park with a construction area of 250000 square meters (In addition, another 148000 square meters are under construction), integrating industrial chain of LCM, SMT, CTP, RTP, mold injection, and Sheet metal punching. DWIN can guarantee the production of LCM, CTP and RTP with first-class technology, highly automated and intelligent manufacturing equipment.

The production capacity of LCM lines is 2.5 million. The LCM lines support the production of LCM with high luminance(1200 nit), wide operating temperature(-40~85°C), anti-electromagnetic interference, sunlight readability and HDMI interface.

The production capacity of RTP lines is 5 hundred thousand. The RTP lines support the production of customized 4-wire RTP and 5-wire RTP, anti-UV material and AG material.

The production capacity of CTP lines is 1 million. The CTP lines support the production of customized CTP, including 1.3~21.5 inches (unconventional size), circular CTP, the shape, color and logo of cover plate, anti-UV, anti- fingerprint and AG material. They can also support the customization of various kinds of technologies, such as OCA lamination, ultrathin GFF, optical bonding, 2.5D and sunlight readability.





Record of Revision

Rev	Date	Description	Editor
00	2023-03-21	First Release	Chen
01	2023-06-02	Update Luminance	Chen
02	2023-09-22	Update Electrical Specification	Chen

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Thank you all for continuous support of DWIN, and your approval is the driving force of our progress!