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TITLE : BP070WS1-500
Product Specification
Rev.0

BEIJING BOE OPTOELECTRONICS TECHNOLOGY

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REVISION HISTORY

REV	ECN NO.	DESCRIPTION OF CHANGES	DATE	PREPARED
0	-	Initial Release	2013.03.18.	邵贤杰/翟明♪
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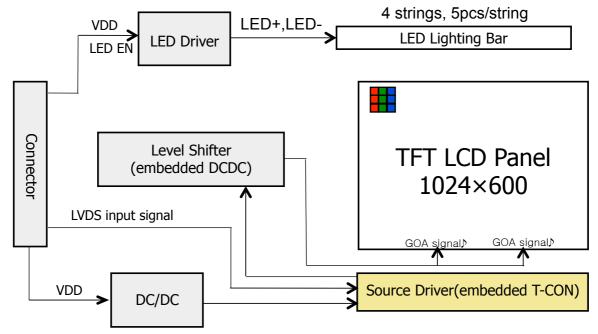
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1.0 GENERAL DESCRIPTION

1.1 Introduction

1.1 Introduction

BP070WS1-500 is a color active matrix TFT LCD module using amorphous silicon TFT's (Thin Film Transistors) as an active switching devices. This module has a 7.0inch diagonally measured active area with WSVGA resolutions (**1024** horizontal by **600** vertical pixel array). Each pixel is divided into RED, GREEN, BLUE dots which are arranged in vertical stripe and this module can display 16.7M colors. The TFT-LCD panel used for this module is adapted for a low reflection a nd higher color type.



1.2 Features

- 1 Channel LVDS Interface with 1 pixel/clock
- Thin and light weight
- Data enable signal mode
- Display 16.7M colors (Hi FRC)
- Low driving voltage and low power consumption
- RoHS Compliant

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1.3 Application

• AV application Products

1.4 General Specification

The followings are general specifications at the model BA070WS1-500. (listed in Table 1.)

< Table 1. General Specifications >

Parameter	Specification	Unit	Remarks
Active area	153.6(H) x 90(V)♪	mm	
Number of pixels	1024(H) ×600(V)	pixels	
Pixel pitch	50(H) ×RGB×150(V)	μm	
Pixel arrangement	Pixels RGB stripe arrangement		
Display colors	16.7M(8bits)	colors	
Display mode	Normally Black		
Outline Dimension	164.05(H) × 100.86(V) × 2.35 (body) (t yp.)	mm	Tolerance:±0.15 mm
Weight	90g (max.)	gram	
Power Consumptio	P _D : 0.65(max.)		@R/G/B pattern.
n	P _{BL} : 1.55(max.)	Watt	
	P _{total} : 2.2(max.)		
Surface Treatment	3H HC + LR		

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2.0 ABSOLUTE MAXIMUM RATINGS

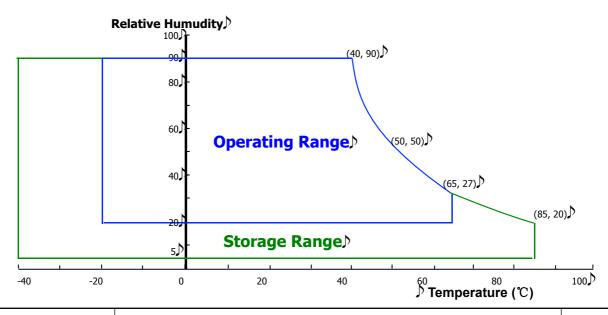
The followings are maximum values which, if exceed, may cause faulty operation or damage to the unit. The operational and non-operational maximum voltage and current values are listed in Table 2.

< Table 2. Absolute Maximum Ratings>

[VSS=GND=0V]

Parameter	Symbol	Min.	Max.	Unit	Remarks
Power Supply Voltage	V_{DD}	-0.3	4.2	V	
Power Supply For LED	V_{LED}	-0.3	40	V	
Operating Temperature	T _{OP}	-20	+65	°C	
Storage Temperature	T _{ST}	-40	+85	°C	

Note: 1) Temperature and relative humidity range are shown in the figure below. Wet bulb temperature should be 39 °C max. and no condensation of water.



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3.0 ELECTRICAL SPECIFICATIONS

3.1 Electrical Specifications

< Table 3. Electrical specifications >

 $[Ta = 25 \pm 2 \, ^{\circ}C]$

Parameter	Symbol	Symbol Values		'alues		Notes	
	Gymbo	Min	Тур	Max	Unit		
Power Supply Input Voltage	V_{DD}	3.2	3.7	4.2	V	Note 1	
Power Supply Current	I _{DD}	-	151	_	mA	Note 1	
LED Driver Power Supply Voltage	H _{VDD}	3	3.7	18	V		
LED Driver Power Supply Current	I _{HVDD}	-	405	-	mA	Note 2	
LED Driver Efficiency	η	-	84	_	%		
Positive-going Input Threshold Voltage	V _{IT+}	-	-	+100	mV	Vcom = 1.2V typ.	
Negative-going Input Threshold Voltage	V _{IT-}	-100	-	-	mV		
Differential input common mode voltage	V _{com}	-	1.2	-	V	V _{IH} =100mV, V _{IL} =-100mV	
	P_{D}	-	0.56	0.65	W	Q 14# ''	
Power Consumption	P_{BL}	-♪	1.50	1.55	W	@ White pattern	
	P _{Total}	- >	2.06	2.2	W	pattern	

Notes: 1. The supply voltage is measured and specified at the interface connector of LCM.

The current draw and power consumption specified is for 3.7V at 25 °C

- 2. Calculated value for reference (VLED X ILED)
- 3. CTF of Power Supply Current: PD /PBL

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3.2 Recommended Driving Condition for Backlight

< Table 4. Electrical specifications for Backlight >

ITEM	Symbo I	Min	Тур	Max	Unit	Note
Current for each LED	I _{LED}	-		20	mA	
Voltage for each LED	V_{LED}		3	3.3	V	
Input Current	I _B	1		80	mA	Total 20 LEDs, 4 Srings,5 EA e
Input Voltage	V_{B}		15	16.5	V	ach sring,
Power Consump tion for Backlight	P_{B}		1.50	1.55	W	

3.3 LED Driver

- With LED Driver on Customer System , We only have one connector on FPC .

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4.0 OPTICAL SPECIFICATION

4.1 Overview

The test of view angle range shall be measured in a dark room (ambient luminance ≤ 11 ux and temperature = 25±2°C) with the equipment of Luminance meter system (Goniomet er system and TOPCON BM-5A) and test unit shall be located at an approximate distance 50cm from the LCD surface at a viewing angle of θ and Φ equal to 0° . We refer to $\theta\emptyset=0$ (= θ 3) as the 3 o'clock direction (the "right"), θ Ø=90 (= θ 12) as the 12 o'clock direction ("u pward"), $\theta\emptyset=180$ (= $\theta9$) as the 9 o'clock direction ("left") and $\theta\emptyset=270$ (= $\theta6$) as the 6 o'clo ck direction ("bottom"). While scanning θand/or Ø, the center of the measuring spot on the Display surface shall stay fixed. The luminance, color and uniformity should be tested by CA210. The backlight should be operating for 30 minutes prior to measurement. VDD sha Il be 3.7 ± 0.5V at 25°C. Optimum viewing angle direction is 6 'clock.

4.2 Optical Specifications <table 5.="" optical="" specifications=""></table>								
Parame	eter	Symbol		Min	Тур	Max	Unit	Remark
	Horizontal	Θ_3		-	80	ı	Deg.	N 4 1
Viewing Angle	Horizontai	Θ_9	CR > 10	-	80	-	Deg.	
Migic	Vertical	Θ_{12}	CK > 10	-	80	-	Deg.	Note 1
	Vertical	Θ_6		-	80	-	Deg.	
Color Ga	ımut			-	50	-	%	NTSC♪
Contrast	ratio	CR		700:1	900:1	1		Note 2
Luminance of	of White	$Y_{\rm w}$		340	400	1	cd/m ²	Note 3
White luminance	e uniformity	ΔΥ9		80	90		%	Note 4
	White	W_{x}			0.297			
	wille	W_{y}	$\Theta = 0$ °		0.337			
	Red	R_{x}	(Center) Normal		0.618			
Reproduction	Keu	R_{y}	Viewing	TYP.	0.328	TYP.		CF + C
of color	Green	G_{x}	Angle	- 0.03	0.282	+ 0.03		light
	Green	G_{y}			0.538			
	Blue	$\mathbf{B}_{\mathbf{x}}$			0.142			
	Diue	\mathbf{B}_{y}			0.168			
Response Time		T_{g}		-	30	-	ms	Note 6
Gamma S	Scale			2.0	2.2	2.4		

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Notes: 1. Viewing angle is the angle at which the contrast ratio is greater than 10. The viewing angles are determined for the horizontal or 3, 9 o'clock direction and the vertical or 6, 12 o'clock direction with respect to the optical axis which is normal to the LCD surface (see FIGURE 1).

2. 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 . (see FIGURE 1) Luminance Contrast Ratio (CR) is defined mathematically.

CR = Luminance when displaying a white raster

Luminance when displaying a black raster

3. Center Luminance of white is defined as luminance values of 5point average across the LCD surface. Luminance shall be measured with all pixels in the view field set first to white. This measurement shall be taken at the locations shown in FIGURE 2 for a total of the measurements per display.

The luminance is measured by CA210 when the LED current is set at 18.8m.

.

- 4. The White luminance uniformity on LCD surface is then expressed as : $\Delta Y = Minimum Luminance of 5 points / Maximum Luminance of 5 points (see FIGURE 2).$
- 5. The color chromaticity coordinates specified in Table 5 shall be calculated from the spectral data measured with all pixels first in red, green, blue and white. Measurements shall be made at the center of the panel.
- 6. The electro-optical response time measurements shall be made as FIGURE 3 by switching the "data" input signal ON and OFF. The times needed for the luminance to change from 10% to 90% is Tr, and 90% to 10% is Td.
- 7. Cross-Talk of one area of the LCD surface by another shall be measured by comparing the luminance (YA) of a 25mm diameter area, with all display pixels set to a gray level, to the luminance (YB) of that same area when any adjacent area is driven dark. (See FIGURE 4).

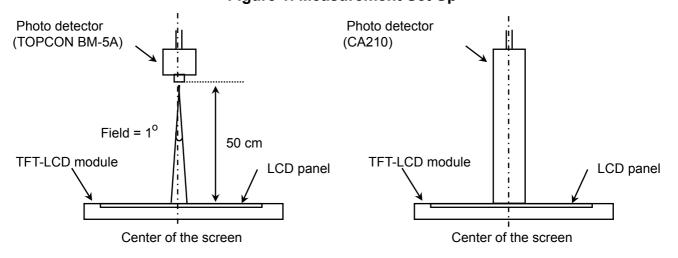
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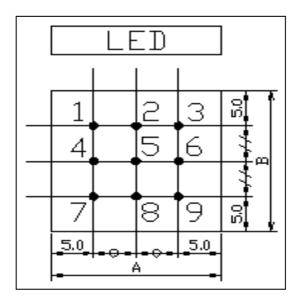
4.3 Optical measurements

Figure 1. Measurement Set Up



View angel range measurement setup Luminance, uniformity and color measurement setup

Figure 2. White Luminance and Uniformity Measurement Locations (9 points)



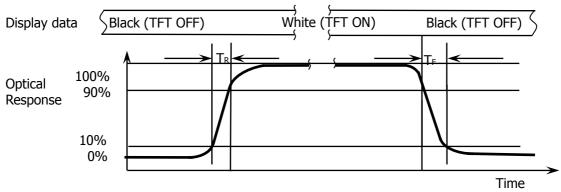
The White luminance uniformity on LCD surface is then expressed as : $\Delta Y9$ = Minimum Luminance of nine points / Maximum Luminance of nine points (see FIGURE 3)

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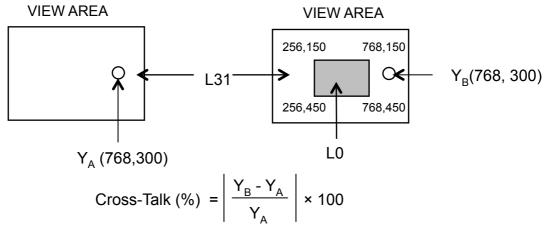
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The electro-optical response time measurements shall be made as shown in FIG URE 3 by switching the "data" input signal ON and OFF. The times needed for th e luminance to change from 10% to 90% is Tr and 90% to 10% is Td.

Figure 4. Cross Modulation Test Description



Where:

 Y_A = Initial luminance of measured area (cd/m²) Y_B = Subsequent luminance of measured area (cd/m²)

The location measured will be exactly the same in both patterns

Cross-Talk of one area of the LCD surface by another shall be measured by com paring the luminance (YA) of a 25mm diameter area, with all display pixels set to a gray level, to the luminance (YB) of that same area when any adjacent area is driven dark (Refer to FIGURE 4).

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5.0 INTERFACE CONNECTION.

5.1 Electrical Interface Connection

The electronics interface connector is PF030-B31B-N09. The connector interface pin assignments are listed in Table 6.

<Table 6. Pin Assignments for the Interface Connector>

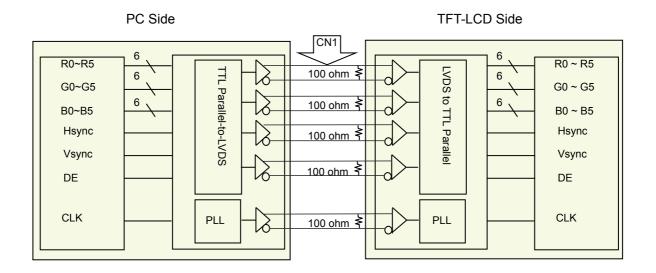
Terminal	Symbol	Functions
Pin No.	Symbol	Description
1	VDDIN	
2	VDDIN	1
3	VDDIN]
4	VDDIN	Power supply VDDIN=3.7V (Typ.)
5	VDDIN]
6	VDDIN	
7	VDDIN]
8	NC	Non Connection
9	NC♪	Non Connection
10	NC♪	Non Connection
11	GND	GROUND
12	GND.⟩	GROUND)
13	RIN0-	LVDS Negative data signal (-)
14	RIN0+	LVDS Positive data signal (+)
15	GND.⟩	GROUND)
16	RIN1-	LVDS Negative data signal (-)
17	RIN1+	LVDS Positive data signal (+)
18	GND.>	GROUND.>
19	RIN2-	LVDS Negative data signal (-)
20	RIN2+	LVDS Positive data signal (+)
21	GND.)	GROUND
22	LVDS_CLK-	LVDS Negative CLK signal (-)
23	LVDS_CLK+	LVDS Positive CLK signal (+)
24	GND.>	GROUND
25	RIN3-	LVDS Negative data signal (-)
26	RIN3+	LVDS Positive data signal (+)
27	GND♪	GROUND)
28	LED_EN♪	LED enable
29	GND	GROUND
30	DVDDT♪	Only for SEC test. Other custormers NC.
31	GND♪	GROUND

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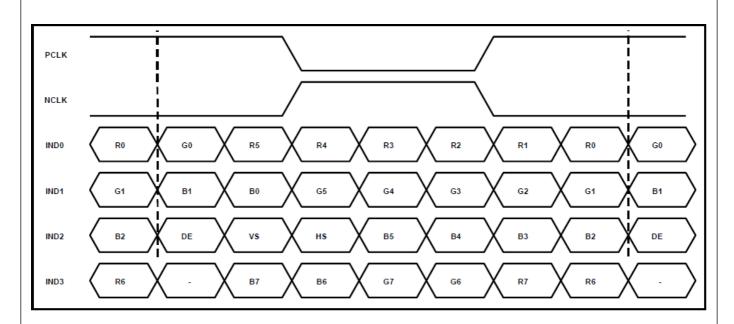


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5-2. LVDS Interface



5.3.LVDS Input signal

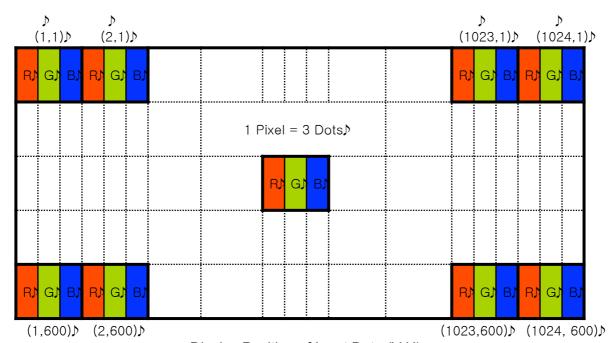


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5.4 Data Input Format



Display Position of Input Data (V-H)

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6.0 SIGNAL TIMING SPECIFICATION

6.1 The BP070WS1-500 is operated by the DE only.

	Item	Symbols	Min	Тур	Max	Unit
	Frequency	1/Tc	40.8	5 1.2	67.2	MHz
Clock	High Time	Tch	40%	50%	60%	Tc
	Low Time	Tcl	60%	50%	40%	Тс
			6 10	6 35	800	lines
Fra	Frame Period		60	60	60	Hz
			16.6	16.6	16.6	ms
Vertical	Display Period	Tvd	600	600	600	lines
One line Scanning Peri od		Th	1114	1344	1400	clocks
Horizontal Display Peri od		Thd	1024	1024	1024	clocks

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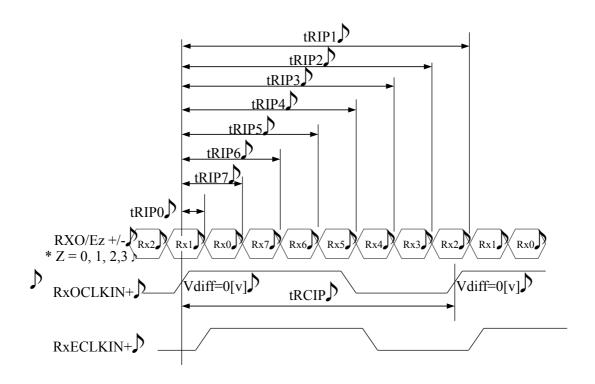
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6.2 LVDS Rx Interface Timing Parameter

The specification of the LVDS Rx interface timing parameter is shown in Table 8.

<Table 8. LVDS Rx Interface Timing Specification>

Item	Symbol	Min	Тур	Max	Unit	Remark
CLKIN Period	tRCIP♪	14.88	19.53	24.51	nsec	
Input Data 0♪	tRIP1♪	-0.4♪	0.0	+0.45	nsec	
Input Data 1♪	tRIP0♪	tRICP/7-0.4♪	tRICP/7♪	tRICP/7+0.4	nsec	
Input Data 2)	tRIP7♪	2 ×tRICP/7-0.4♪	2 ×tRICP/7♪	2 ×tRICP/7+0.4♪	nsec	
Input Data 3♪	tRIP6♪	3 ×tRICP/7-0.4♪	3 ×tRICP/7♪	3 ×tRICP/7+0.4♪	nsec	
Input Data 4♪	tRIP5♪	4 ×tRICP/7-0.4♪	4 ×tRICP/7♪	4 ×tRICP/7+0.4	nsec	
Input Data 5♪	tRIP4♪	5 ×tRICP/7-0.4	5 ×tRICP/7♪	5 ×tRICP/7+0.4	nsec	
Input Data 6♪	tRIP3♪	6 ×tRICP/7-0.4♪	6 ×tRICP/7♪	6 ×tRICP/7+0.4♪	nsec	
Input Data 7♪	tRIP2♪	7 ×tRICP/7-0.4♪	7 ×tRICP/7♪	7 ×tRICP/7+0.4♪	nsec	



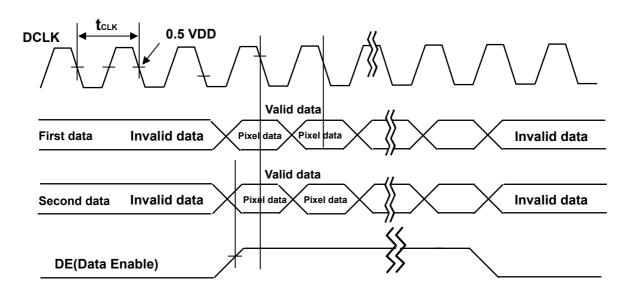
* Vdiff = (RXO/Ez+)-(RXO/Ez-),...,(RXO/ECLK+)-(RXO/ECLK-)

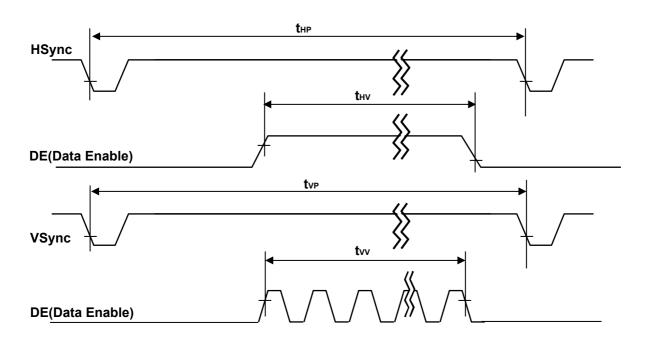
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7.0 SIGNAL TIMING WAVEFORMS OF INTERFACE SIGNAL





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8.0 INPUT SIGNALS, BASIC DISPLAY COLORS & GRAY SCALE OF COLORS

		Input Data Signal																							
Color & Gray Scale				R	ed	Dat	ta					Gr	eer	ı Da	ata					В	lue	Da	ta		
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	В7	В6	В5	В4	В3	B2	В1	B0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Green	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
Basic Colors	Cyan	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Basic Colors	Red	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Magenta	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
[Yellow	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Δ	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Darker	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray Scale	\triangle				,	<u> </u>							•	<u> </u>								<u> </u>			
of Red	∇				, ,	<u> </u>							,												
	Brighter	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	∇	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	\triangle	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Gray Scale	Darker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
of Green	\triangle	↑					<u> </u>							<u> </u>											
or Green	∇				,								,			_				_					
	Brighter	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0
	∇	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	Green	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Cmary Capila	Darker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	_1_	0
Gray Scale						<u> </u>								<u> </u>								<u> </u>			
of Blue	\trianslate{\tria				<u>, </u>	1			I 0		0	_	<u> </u>	_			_	_				1		_	
-	Brighter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1
	\(\nabla \)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0
	Blue	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	<u> </u>	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
Gray Scale	Darker	0	0	0	10	0	0	1	0	0	0	0	0	0	0	<u>l</u>	0	0	0	0	0	0	0	1	0
of White		\vdash				<u> </u>				\vdash				<u> </u>								<u> </u>			
		1	1	1	1	1	1		1	1	1	1	1	1	1	<u> </u>	1	1	1	1	1	1	1	<u> </u>	1
	Brighter \bigtriangledown	1	<u> </u>	1 1	1	1	1 1	0	1	1	1	1 1	1 1	1 1	1	0	1	1	1 1	<u> </u>	1 1	1	1	0	1
		1	1	1	1	1	1	1	0	1	1	1	1	1 1	1	1	0	1	1	1	1	1	1	1	0
	White	1	1	H	1	1	П	L	1	1	1	1	l l	H	1	H	L	1	H	1	1	1	1	1	I

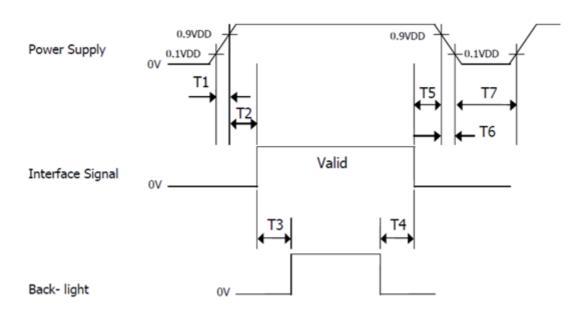
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9.0 POWER SEQUENCE

To prevent a latch-up or DC operation of the LCD module, the power on/off seq uence shall be as shown in below



Danamatan	Values			TT:4a
Parameter	Min	Тур	Max	Units
T1	0.5	-	10	ms
T2	0	-	50	ms
Т3	200	-	-	ms
T4	200	-	-	ms
T5	0.5	-	50	ms
Т6	0	-	10	ms
Т7	500	-	-	ms

Notes:

- 1. When the power supply VDD is 0V, keep the level of input signals on the low or keep high impedance.
- 2. Do not keep the interface signal high impedance when power is on. Back Light must be turn on after power for logic and interface signal are valid.

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10.0 Connector Description

Physical interface is described as for the connector on LCM.

These connectors are capable of accommodating the following signals and will be following components.

10.1 TFT LCD Module

Connector Name /Description	For Signal Connector
Manufacturer	UJU or Compatible
Type/ Part Number	PF030-B31B-N09 or Compatible

10.2 LED Connector

Pin No.	Symbol	For Signal Connector
1	VLEDP	LED Anode Power Supply
2	VLEDN1	
3	VLEDN2	LED Called David Comple
4	VLEDN3	LED Cathode Power Supply
5	VLEDN4	

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11.0 MECHANICAL CHARACTERISTICS

11.1 Dimensional Requirements

FIGURE 5 shows mechanical outlines for the model BP070WS1-500. Other parameters are shown in Table 9.

<Table 9. Dimensional Parameters>

Parameter	Specification	Unit
Active Area	153.6 (H) ×90 (V)	
Number of pixels	1024(H) X600 (V) (1 pixel = R + G + B dots)	
Pixel pitch	0.150 (H) X 0.150 (V)	
Pixel arrangement	RGB Vertical stripe	
Display colors	16.7M	
Display mode	Normally Black	
Dimensional outline	164.05*100.86*2.35 (Typ.)	mm
Weight	90 (Max)	gram
Back-light	LED, Horizontal-LED Array type	

11.2 Mounting

See FIGURE 6.

11.3 Glare and Polarizer Hardness.

The surface of the LCD has an low reflection coating and hard coating to reduce scratching.

11.4 Light Leakage

There shall not be visible light from the back-lighting system around the edges of the screen as seen from a distance 50cm from the screen with an overhead light level of 150lux.

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12.0 RELIABILITY TEST

The Reliability test items and its conditions are shown in below.

<Table 10. Reliability test>

No	Test Items	Conditions
1	High temperature storage test	Ta = 85 ℃, 24 hrs
2	Low temperature storage test	Ta = -40 °C, 24 hrs
3	High temperature & high humidity operation test	Ta = 60 ℃, 90%RH, 96 hrs
4	High temperature operation test	Ta = 60 °C, 24 hrs
5	Low temperature operation test	Ta = -20 °C, 24 hrs
6	Thermal shock	Ta = -40 °C \leftrightarrow 85 °C (2 hr), 30 cycle

13.0 HANDLING & CAUTIONS

- (1) Cautions when taking out the module
 - Pick the pouch only, when taking out module from a shipping package.
- (2) Cautions for handling the module
 - As the electrostatic discharges may break the LCD module, handle the LCD module with care. Peel a protection sheet off from the LCD panel surface as slowly as possible.
 - As the LCD panel and back light element are made from fragile glass material, impulse and pressure to the LCD module should be avoided.
 - As the surface of the polarizer is very soft and easily scratched, use a soft dry cloth without chemicals for cleaning.
 - Do not pull the interface connector in or out while the LCD module is operating.
 - Put the module display side down on a flat horizontal plane.
 - Handle connectors and cables with care.
- (3) Cautions for the operation
 - When the module is operating, do not lose CLK, ENAB signals. If any one of these signals is lost, the LCD panel would be damaged.
 - Obey the supply voltage sequence. If wrong sequence is applied, the module would be damaged.

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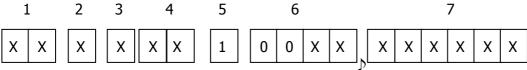
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- (4) Cautions for the atmosphere
 - Dew drop atmosphere should be avoided.
 - Do not store and/or operate the LCD module in a high temperature and/or humidity atmosphere. Storage in an electro-conductive polymer packing pouch and under relatively low temperature atmosphere is recommended.
- (5) Cautions for the module characteristics
 - Do not apply fixed pattern data signal to the LCD module at product aging.
 - Applying fixed pattern for a long time may cause image sticking.
- (6) Other cautions
 - Do not disassemble and/or re-assemble LCD module.
 - Do not re-adjust variable resistor or switch etc.
 - When returning the module for repair or etc., Please pack the module not to be broken. We recommend to use the original shipping packages.

14.0 LABEL

(1) Product label





Type designation.

No 5. Month (1, 2, 3, ..., 9, X, Y, Z)♪

No 1. Control Number

No 6. Product Identification (FG)

No 2. Rank / Grade♪

No 7. Serial Number

No 3. Line classification (BOE OT:A/BC)

No 4. Year (10 : 2010, 11: 2011, ...)♪

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(2) High voltage caution label



HIGH VOLTAGE CAUTION

RISK OF ELECTRIC SHOCK, DISCONNECT THE ELECTRIC POWER BEFORE SERVICING

COLD CATHODE FLUORESCENT LAMP IN LCD
PANEL CONTAINS A SMALL AMOUNT

OF MERCURY, PLEASE FOLLOW LOCAL ORDINANCES OR REGULATIONS FOR DISPOSAL.

(3) Box label

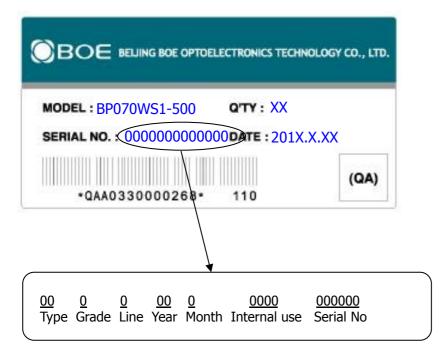
Label Size: 110 mm (L) × 56 mm (W)

Contents

Model: BP070WS1-500 Q'ty: Module Q'ty in one box

Serial No.: Box Serial No. See next figure for detail description.

Date: Packing Date Internal use of Product



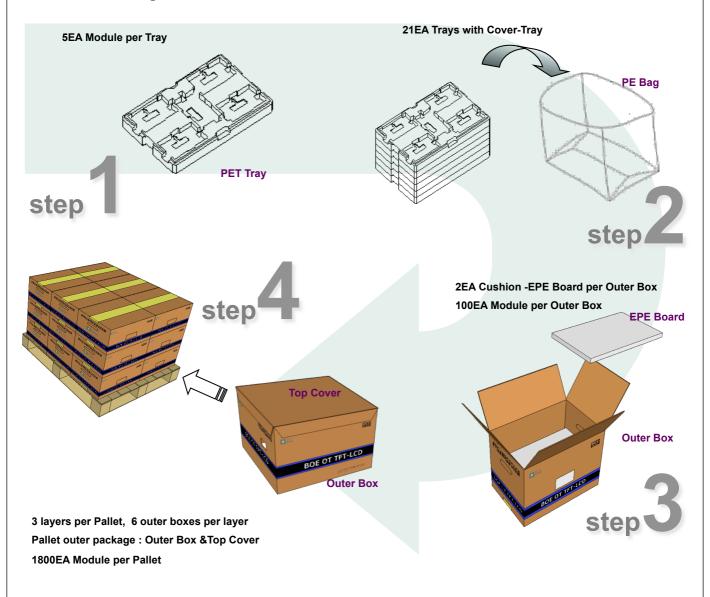
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15.0 PACKING INFORMATION

15.1 Packing order



15.2 Notes

Box Dimension: 515mm(W) x 350mm(D) x 265mm(H)

• Package Quantity in one Box: 100pcs

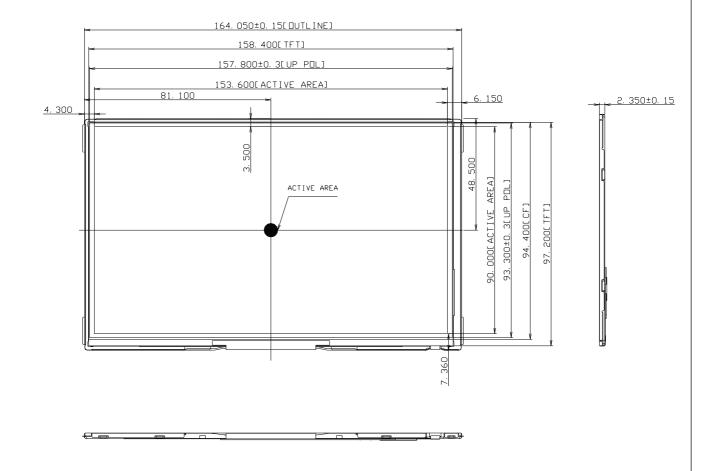
• Total Weight: 9.66 kg

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16.0 MECHANICAL OUTLINE DIMENSION

Figure 6. TFT-LCD Module Outline Dimension (Front View)

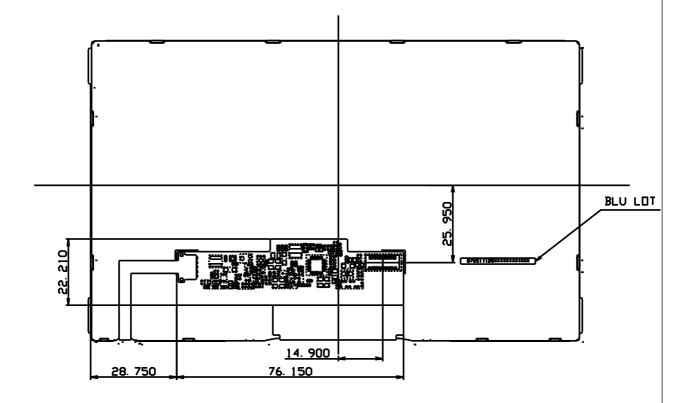


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Figure 7. TFT-LCD Module Outline Dimensions (Rear view)



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