

Version : 1.0

TECHNICAL SPECIFICATION

MODEL NO.: PM070WL4

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Customer's Confirmation

Customer

Date

Ву

PVI's Confirmation

Confirmed By

Prepared By



TECHNICAL SPECIFICATION

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1.Application

This data sheet applies to a color TFT LCD module, PM070WL4.

The application of panel are OA product, portable DVD, car TV(must use Analog to Digital driving board), which requires high quality flat panel display.

Prime View assume no responsibility for any damage resulting from the use of the device which dose not comply with the instructions and the precautions in these specification sheet.

2. Features

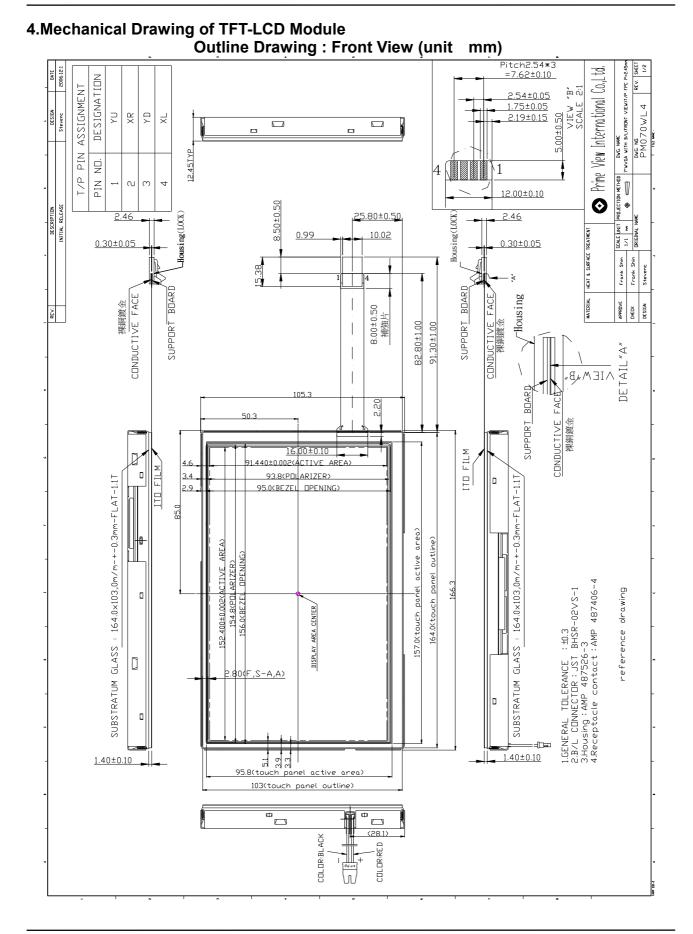
- . Wide VGA (800*480 pixels) resolution
- . Amorphous silicon TFT LCD panel with LED back-light unit
- . Pixel in stripe configuration
- . Thin and light weight
- . Display Colors : 262,144 colors
- . 3.3V LVDS interface standard: THC63LVDF64A as receiver
- . +3.3V DC supply voltage for TFT LCD panel driving
- . Wide viewing angle
- . Module with resistive type touch panel .

3.Mechanical Specifications

Parameter	Specifications	Unit
Screen Size	7.0(diagonal)	inch
Display Format	800×(R, G, B)×480	dot
Display Colors	262,144	
Active Area	152.4(H)×91.44(V)	mm
Pixel Pitch	0.1905(H)×0.1905(V)	mm
Pixel Configuration	Stripe	
Outline Dimension	166.3(W)×105.3 (H)×12.45 (typ.) (D)	mm
Weight	318±15	g
LED Back-light	33-LED	
Surface treatment	Anti-glare and Wide View Film	
Display mode	Normally white	
Surface treatment of Touch Panel	3Н	
Gray scale inversion direction	6 o'clock [ref to Page 18 viewing angle]	

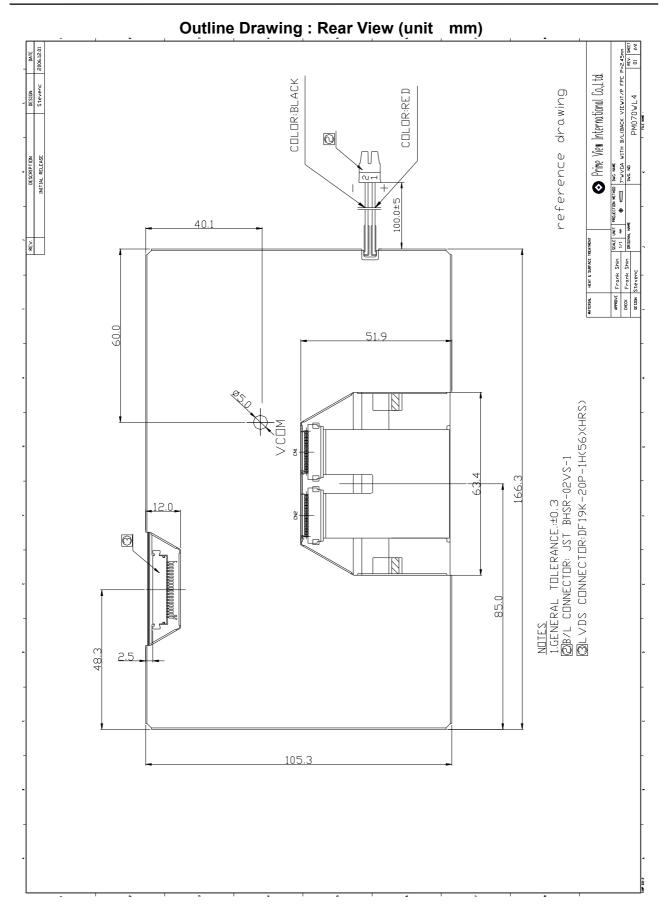
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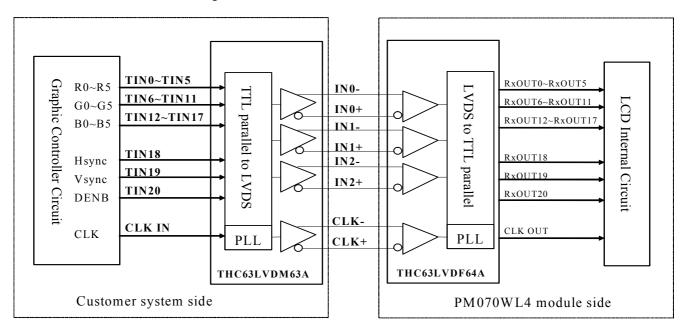


5.Input Terminals

⁵⁻¹⁾ TFT-LCD Panel Driving Connector type: DF19K-20P-1H (56)(HRS)

Pin No.	Symbol	Function	Remark
1	Vcc	+3.3V Power Supply	
2	Vcc	+3.3V Power Supply	
3	GND	Ground	
4	GND	Ground	
5	INO-	LVDS receiver signal channel 0	
6	INO+	LVDS receiver signal channel 0	
7	GND	Ground	
8	IN1-	LVDS receiver signal channel 1	
9	IN1+	LVDS receiver signal channel 1	
10	GND	Ground	
11	IN2-	LVDS receiver signal channel 2	
12	IN2+	LVDS receiver signal channel 2	
13	GND	Ground	
14	CLK-	LVDS receiver signal clock	
15	CLK+	LVDS receiver signal clock	
16	GND	Ground	
17	NC	No connection	
18	NC	No connection	
19	GND	Ground	
20	GND	Ground	

LVDS Interface Block Diagram

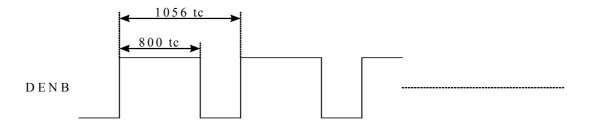


Recommended Transmitter (THC63LVDM63A Thine) to PM070WL4 interface Assignment:

Input terminal of THC63LVDM63A Gra		Gr	aphic controller output signal	Output signal symbol	To PM070WL4 interface terminal (Symbol)
Symbol	No.	Symbol	Function		
TIN0	44	R0	Red pixel data (LSB)	\mathbf{i}	
TIN1	45	R1	Red pixel data		
TIN2	47	R2	Red pixel data	Tout0	— No.5 : IN0-
TIN3	48	R3	Red pixel data	\geq	
TIN4	1	R4	Red pixel data	Tout0+	—No.6 : IN0+
TIN5	3	R5	Red pixel data(MSB)		
TIN6	4	G0	Green pixel data (LSB)	7	
TIN7	6	G1	Green pixel data	7	
TIN8	7	G2	Green pixel data		
TIN9	9	G3	Green pixel data	Tout1- —	—No.8 : IN1-
TIN10	10	G4	Green pixel data	>	
TIN11	12	G5	Green pixel data(MSB)	Tout1+	—No.9 : IN1+
TIN12	13	B0	Blue pixel data(LSB)		
TIN13	15	B1	Blue pixel data)	
TIN14	16	B2	Blue pixel data	7	
TIN15	18	B3	Blue pixel data		
TIN16	19	B4	Blue pixel data	Tout2-	— No.11 : IN2-
TIN17	20	B5	Blue pixel data(MSB)	\succ	
TIN18	22	Hsync	Horizontal Synchronous Signal	Tout2+	[—] N0.12 : IN2+
TIN19	23	Vsync	Vertical Synchronous Signal		
TIN20	25	DENB	Compound Synchronization signal	<u></u>	
CLK in	26	CLK	Data sampling clock	TCLK out- TCLK out+	No.14 : CLK - No.15 : CLK+

DENB input signal.

If customer wanted to off the DENB mode , you must keep the DENB always High or Low.



(tc: the period of sampling clock)

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6.Touch Panel Characteristics

6.1) Pin assignment:

	Pin	Symbol	Function	Remark
	1	YU	Upper electrode Y(Upper side)	
	2	XR	Lower electrode X(Right side)	
	3	YD	Upper electrode Y(Down side)	
Ī	4	XL	Lower electrode X(Left side)	

6.2) Electrical Performance:

Parameters	Symbol	MIN.	Тур.	MAX.	Unit	Remark
Terminal Resistance	X	580	840	1200	Ω	
Terminal Resistance	Y	120	180	260	Ω	
Input Voltage	VT	-	5.0	7.0	V	
Linearity(X,Y direction)	-	-	-	±1.5	%	
Insulation Impedance	-	20	-	-	MΩ	DC 25V
Response Time	-	-	-	15	ms	
Operation Force	-	-	-	50	g	Note 6-1

Note 6-1 Input through 0.8R stylus or finger.

6.3) Durability Performance

1. Hitting Durability:

At least 1,000,000 times with R8.0mm silicon rubber, 250g, 3times/sec.

2. Sliding Durability:

At least 100,000 times with R0.8mm polyacetal stylus, 250g, 60mm/sec.

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7.Absolute Maximum Ratings:

				GND=0	V, Ta=25℃
Parameters	Symbol	MIN.	MAX.	Unit	Remark
Supply Voltage	V _{CC}	-0.3	+4.0	V	
Input Signals Voltage	V _{IN}	-0.3	V _{CC} +0.3	V	Note 7-1
Backlight Driving Frequency	FL	0	100	KHz	

Note 7-1: LVDS signal.

8.Electrical Characteristics

GND =	0V ,	Ta = 2	<u>25</u> ℃
-------	------	--------	-------------

Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Supply Voltage	V _{CC}	3.0	3.3	3.6	V	
Current Dissipation	I _{CC}	-	199.2	217.3	mA	Note 8-1
LVDS Differential input high threshold	Vth	-	-	100	mV	Note 8-2
LVDS Differential input low threshold	Vtl	-100	-	-		
V _{com} Voltage	V_{com}	-	3.1	-	V	

Note 8-1 : To test the current dissipation of V_{CC}, using the "color bars" testing pattern shown as below

1	2	3	4	5	6	7	8	1 2 3 4 5 6 7 8
---	---	---	---	---	---	---	---	--------------------------------------

I_{CC} current dissipation testing pattern

White Yellow

- Cyan
- Green
- Magenta Red
- Blue
- Black

Note 8-2 : Please refers to THC63LVDF64A specification by THINE. This LCD module conforms to LVDS standard.

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8-2) Backlight driving

Connector type: JST BHSR-02VS-1

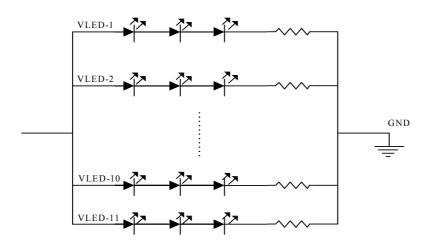
	Pin No	Symbol	Description	Remark
	1	+	Input terminal (Positive electrode side)	Wire color : Red
ĺ	2	-	Input terminal (Ground side)	Wire color : Black

7-3) Recommended Driving Condition for LED Back Light

					GN	ND = 0 V , Ta = 25 C
Parameter	Symbol	Min	TYP	MAX	Unit	Remark
Supply voltage of LED backlight	V_{LED}	-	11.0	11.5	V	$I_{LED} = 20 \text{ mA}$
Supply current of LED backlight	I_{LED}	-	20	-	mA	Note 8-3
Backlight Power Consumption	P_{LED}	-	2.42	2.53	W	Note 8-4

Note 8-3 : The LED driving condition is defined for each LED module. (3 LED Serial)

Note 8-4 : $P_{LED} = V_{LED-1} * I_{LED-1} + V_{LED-2} * I_{LED-2} + V_{LED-10} * I_{LED-10} + V_{LED-11} * I_{LED-11}$



8-4) Power Consumption

Parameter	Symbol	Тур.	Max.	Unit	Remark
LCD Power consumption (W/O BL)	-	0.66	0.79	W	
LED Backlight Power Consumption	-	2.42	2.53	W	Note 8-5
Total Power Consumption	-	3.08	3.32	W	

Note 8-5: Backlight lamp power consumption is calculated by $I_L x V_L$

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9. Pixel Arrangement

The LCD module pixel arrangement is the stripe.

R G B R G B 1 st Line R G B R G B 2 nd Line R G B 3 rd Line	R G B R G B R G B
1 st Pixel 1 Pixel = $\mathbf{R}\mathbf{G}\mathbf{B}$	800 th Pixel
RGB 478 th LineRGBRGBRGBRGBRGBRGB 479 th LineRGBRGB 480 th Line	R G B R G B R G B

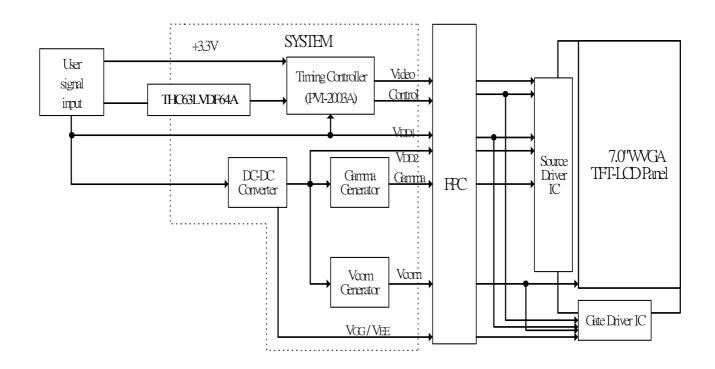
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10. Display Color and Gray Scale Reference

							Input Color Data												
Co			Re	ed					Gre	een					Bl	ue			
		R5	R4	R3	R2	R1	R0	G5	G4	G3	G2	G1	G0	B5	B4	B3	B2	B1	B0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red (63)	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Green (63)	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
Basic	Blue (63)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
Colors	Cyan	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	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
	Red (00)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red (01)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Red (02)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Darker																		
Red	↓	\downarrow	\downarrow	\downarrow	\downarrow	↓	\downarrow	↓	¥	\downarrow	¥	\downarrow	\downarrow	↓	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow
	Brighter																		
	Red (61)	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
Į	Red (62)	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red (63)	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Green (00)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green (01)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Green (02)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Darker																		
Green	\downarrow	↓	\downarrow	↓	\downarrow	\downarrow	↓	↓	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow						
	Brighter																		
	Green (61)	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0
	Green (62)	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
	Green (63)	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
	Blue (00)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue (01)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Blue (02)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Darker																		
Blue	↓	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow
	Brighter																		
	Blue (61)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1
	Blue (62)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	Blue (63)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1

11. Block Diagram

11-1) TFT-module Block Diagram



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12. Interface Timing

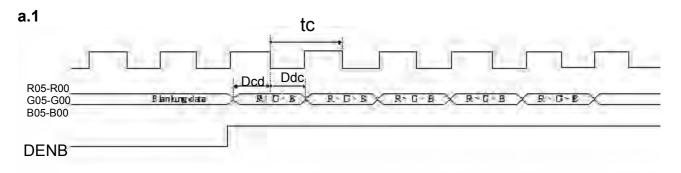
12.1) Timing Parameters

		Symbol	Min.	Тур.	Max.	Unit	Remark
Power supply		VCC	3.0	3.3	3.6	V	
CLK	Frequency	1/tc	-	32	-	MHz	
		tc	-	31.25	-	ns	
HSYNC	Period	Нр	-	33	-	us	
			-	1056	-	tc	
	Display period	Hdp	-	800	-	tc	
	Pulse width	Hpw	-	128	-	tc	
	Back-porch	Hbp	-	86	-	tc	
	Front-porch	Hfp	-	42	-	tc	
	Hpw+Hbp		-	214	-	tc	
	Hsync-CLK	Hhc	10	-	Tc-10	ns	
	Vsync-Hsync	Hvh	0	0	200	tc	
VSYNC	Period	Vp	-	17.325	-	ms	
			-	525	-	Нр	
	Display period	Vdp	-	480	-	Нр	
	Pulse width	Vpw	-	2	-	Нр	
	Back-porch	Vbp	-	33	-	Нр	
	Front-porch	Vfp	-	10	-	Нр	
	Vpw+Vbp		-	35	-	Нр	
DENB	Horizontal scanning period	T1	860	1056	1064	tc	
	Horizontal display period	T2	-	800	-	tc	
	Vertical display period	Т3	-	480	-	T1	
	Frame cycling period	T4	520	525	800	T1	
R,G,B	CLK-DATA	Dcd	10	-	-	ns	
	DATA-CLK	Ddc	8	-	-	ns	

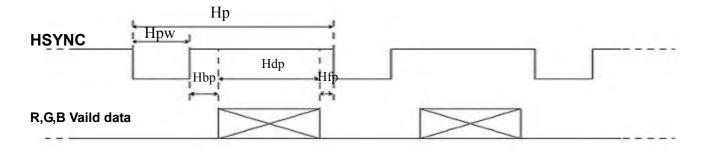


12.2) The Timing Diagram

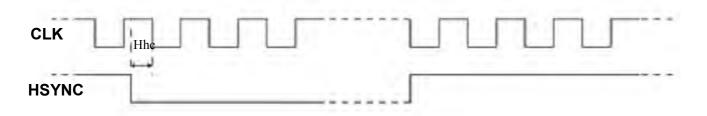
a. Input signal range



a.2 HSYNC timing

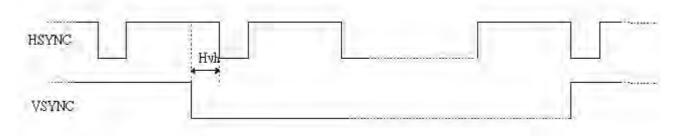


a.3 CLK, HSYNC relationship

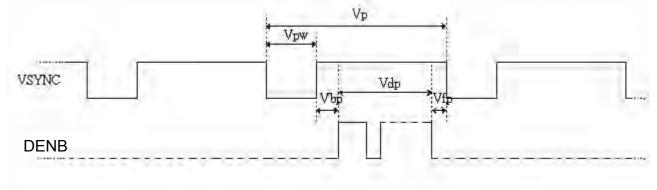


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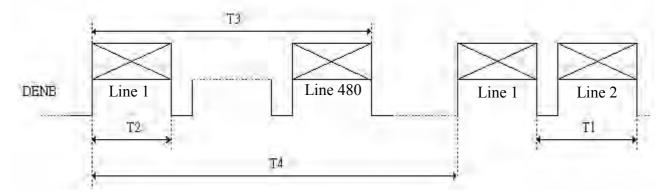
a.4 HSYNC, VSYNC relationship



a.5 VSYNC timing



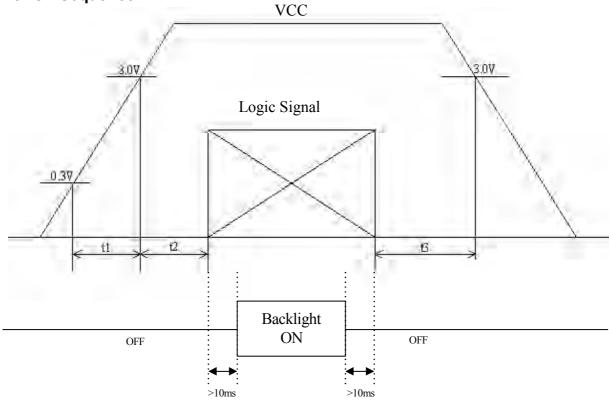
a.6 DENB timing



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13. Power On Sequence



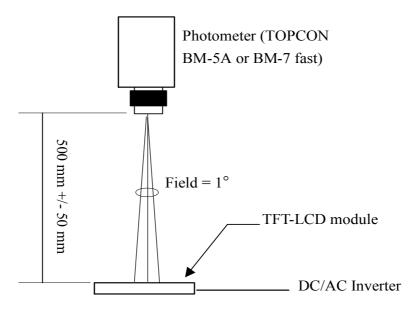
- 1. 0<t1≦20ms
- 2. 0<t2≦50ms
- 3. 0<t3≦1s

14. Optical Characteristics

14.1) Specification:

								Ta=25 ℃
Parameter		Symbol	Condition	MIN.	TYP.	MAX.	Unit	Remarks
	Horizontal			±55	±60	-	deg	
Viewing Angle	Vertical	heta 12 (to 12 'clock)		35	40	-	deg	Note 14-1
Aligie	ventical	heta 11 (to 6 o'clock)		50	55	-	deg	
Contrast	Ratio	CR	$\theta = 0^{\circ} / \varphi = 0$	250	400	-	-	Note 14-2
Response tim	Rise	Tr	<i>θ</i> =0°/ <i>φ</i> =0	-	15	30	ms	Note 14-3
itesponse un	Fall	Tf	$0 = 07 \varphi = 0$	-	25	50	ms	14-5
Brightn	ess	L	$\theta = 0^{\circ} / \varphi = 0$	280	330	-	cd/ m ^²	
Luminance L	Jniformity	U	-	70	75	-	%	Note 14-4
White Chro	White Chromaticity		<i>θ</i> =0°/ <i>φ</i> =0	0.28	0.31	0.34	-	
White Oniomationy		У	υ-07φ-0	0.30	0.33	0.37	-	
Cross	Cross Talk		<i>θ</i> =0°	-	-	3.5	%	Note 14-5
LED Life	Time	-	-	20000	30000	-	hr	Note 14-6

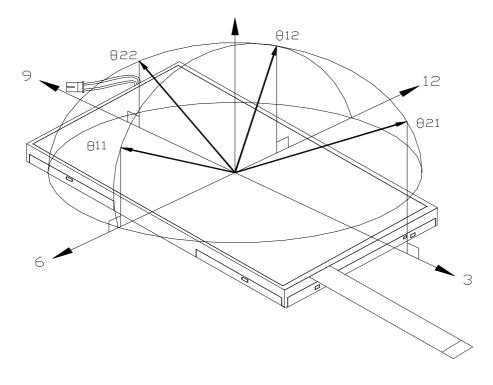
All the optical measurement shall be executed 10 minutes after backlight being turn-on. The optical characteristics shall be measured in dark room (ambient illumination on panel surface less than 1 Lux). The measuring configuration shows as following figure.



Optical characteristics measuring configuration

Topcon BM-5A or BM-7 fast luminance meter 1° field of view is used in the testing (after 10 minutes' operation). The typical luminance value is measured at LED current 20 mA.

Note 14-1: The definitions of viewing angles are as follow.

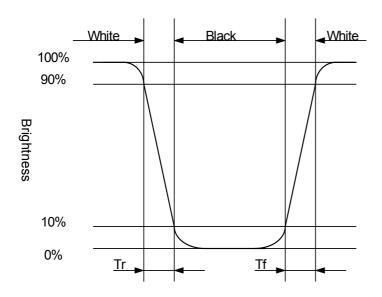


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OPRIME VIEW

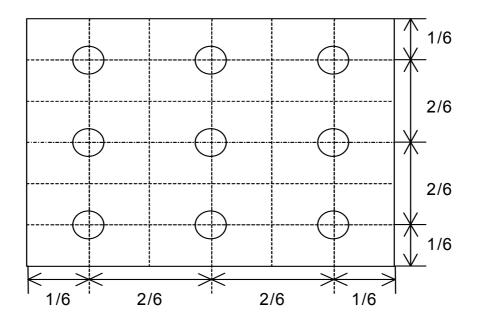
PM070WL4

Note 14-2: The definition of contrast ratio $CR = \frac{Luminance at gray level 63}{Luminance at gray level 0}$ Note 14-3: Definition of Response Time Tr and Tr:



Note 14-4: The uniformity of LCD is defined as

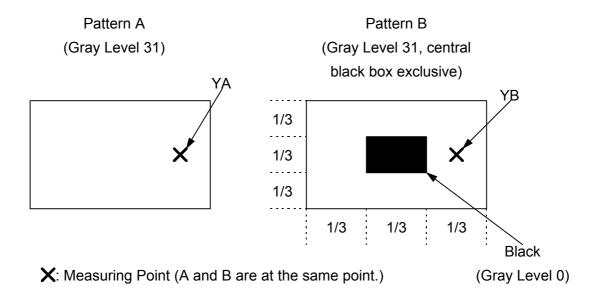
U = The Minimum Brightness of the 9 testing Points The Maximum Brightness of the 9 testing Points Luminance meter : BM-5A or BM-7 fast(TOPCON) Measurement distance : 500 mm +/- 50 mm Ambient illumination : < 1 Lux Measuring direction : Perpendicular to the surface of module The test pattern is white (Gray Level 63).





Note 14-5: Cross Talk (CTK) = $\frac{|YA-YB|}{YA} \times 100\%$

YA: Brightness of Pattern A YB: Brightness of Pattern B Luminance meter : BM 5A or BM-7 fast (TOPCON) Measurement distance : 500 mm +/- 50 mm Ambient illumination : < 1 Lux Measuring direction : Perpendicular to the surface of module



Note 14-6: The "LED Life time " is defined as the module brightness decrease to 50% original Brightness that the ambient temperature is 25° C and I_{LED} =20mA.

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15. Handling Cautions

- 15-1) Mounting of module
 - a) Please power off the module when you connect the input/output connector.
 - b) Please connect the ground pattern of the inverter circuit surely. If the connection is not perfect, some following problems may happen possibly.
 - 1. The noise from the backlight unit will increase.
 - 2. The output from inverter circuit will be unstable.
 - 3.In some cases a part of module will heat.
 - c) Polarizer which is made of soft material and susceptible to flaw must be handled carefully.
 - d) Protective film (Laminator) is applied on surface to protect it against scratches and dirts. It is recommended to peel off the laminator before use and taking care of static electricity.
- 15-2) Precautions in mounting
 - a) When metal part of the TFT-LCD module (shielding lid and rear case) is soiled, wipe it with soft dry cloth.
 - b) Wipe off water drops or finger grease immediately. Long contact with water may cause discoloration or spots.
 - c) TFT-LCD module uses glass which breaks or cracks easily if dropped or bumped on hard surface. Please handle with care.
 - d) Since CMOS LSI is used in the module. So take care of static electricity and earth yourself when handling.
- 15-3) Adjusting module
 - a) Adjusting volumes on the rear face of the module have been set optimally before shipment.
 - b) Therefore, do not change any adjusted values. If adjusted values are changed, the specifications described may not be satisfied.
- 15-4) Others
 - a) Do not expose the module to direct sunlight or intensive ultraviolet rays for many hours.
 - b) Store the module at a room temperature place.
 - c) The voltage of beginning electric discharge may over the normal voltage because of leakage current from approach conductor by to draw lump read lead line around.
 - d) If LCD panel breaks, it is possibly that the liquid crystal escapes from the panel. Avoid putting it into eyes or mouth. When liquid crystal sticks on hands, clothes or feet. Wash it out immediately with soap.
 - e) Observe all other precautionary requirements in handling general electronic components.
 - f) Please adjust the voltage of common electrode as material of attachment by 1 module.

16. Reliability Test

No	Test Item	Test Condition	Remark
1	High Temperature Storage Test	Ta = +80℃, 240 hrs	
2	Low Temperature Storage Test	Ta = -30℃, 240 hrs	
3	High Temperature Operation Test	Ta = +70℃, 240 hrs	
4	Low Temperature Operation Test	Ta = -20℃, 240 hrs	
5	High Temperature & High Humidity Operation Test	Ta = +60℃, 90%RH, 240 hrs (No Condensation)	
6	Thermal Cycling Test (non-operating)	-30°C →+80°C , 100 Cycles 30min 30min	
7	Vibration Test (non-operating)	Frequency:10 ~ 55 H _z , Amplitude:1 mm Sweep time: 11 min Test Period: 6 Cycles for each direction of X, Y, Z	
8	Shock Test (non-operating)	100G, 6ms Direction: ±X, ±Y, ±Z Cycle: 3 times	
9	Electrostatic Discharge Test (non-operating)	Contact mode: ±8KV,10times/point , 9 points/panel face Air mode: 150pF, 330ΩAir : ±15KV	
10	Hitting Durability Test (Touch panel)	1,000,000 times, with R 8.0 mm silicon rubber, 250g, 3times/sec	
11	Sliding Durability Test (Touch panel)	1,00,000 times, with R 0.8 mm polyacetal stylus, 250g, 60mm/sec	

Ta: ambient temperature

Note: The protective film must be removed before temperature test.

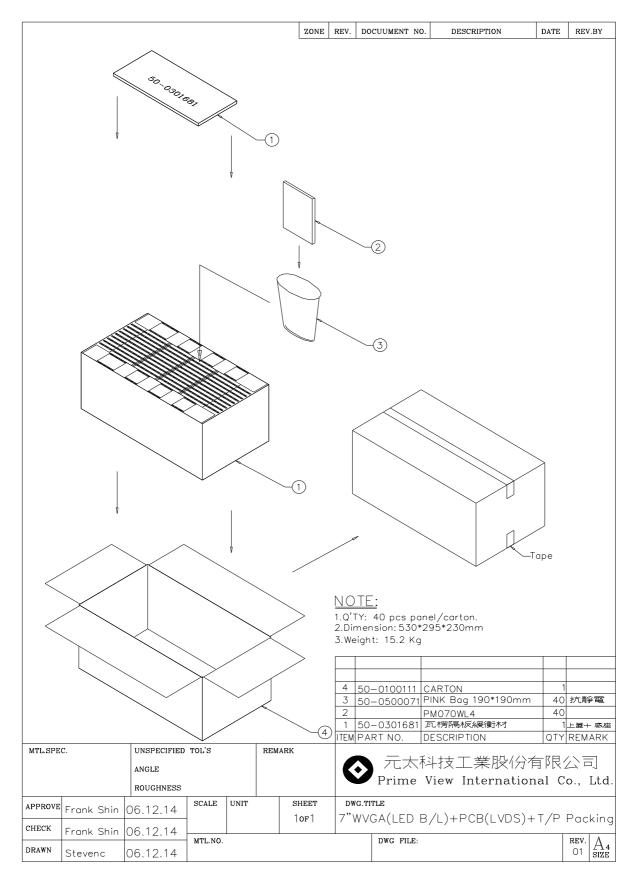
[Criteria]

In the standard conditions, there is not display function NG issue occurred. (including : line defect ,no image), All the cosmetic specification is judged before the reliability stress.

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17. Packing Diagram





Revision History

Rev.	Eng.	Issued Date	Revised Contents
0.1	蔡弘毅	Oct.27.2006	New
0.2	蔡弘毅	Dec.04,2006	1.Del Packing 2.Modify outline drawing (touch panel FPC connector model)
1.0	蔡弘毅	Dec.22,2006	Release version