

Version: 3.0

# **TECHNICAL SPECIFICATION**

# Model NO. : PM061WX1

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Customer's Confirmation

Customer

Date

By

E Ink's Confirmation

Confirmed By	博森真
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# **Revision History**

Rev.	Issued Date	Revised Contents
0.1	Jan. 11, 2009	Preliminary
1.0	Mar. 13, 2009	New
2.0	August.23.2011	Update to E Ink logo
3.0	Oct.21.2011	Modify page 21 Optical Characteristics $\ominus$ 11 ==> MIN : 50 , TYP : 60



# **TECHNICAL SPECIFICATION**

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#### 1. Application :

This data sheet applies to a color TFT LCD module, PM061WX1.

PM061WX1 module applies to OA product, portable DVD, car TV (must use Analog to Digital driving board), which requires high quality flat panel display. If you must use in severe reliability environment, please don't extend over PVI's reliability test conditions.

If you use PM061WX1, Prime View advises to use PVI's timing controller IC (PVI-2003A) on your system which will generate proper timing signals to control PM061WX1.

### 2. Features :

- . Wide VGA (800\*480 pixels) resolution
- . Amorphous silicon TFT LCD panel with LED Back-light
- . Pixel in stripe configuration
- . Thin and light weight
- . Display Colors : 262,144 colors
- . TTL transmission interface
- . Wide view angle

#### 3. Mechanical Specifications :

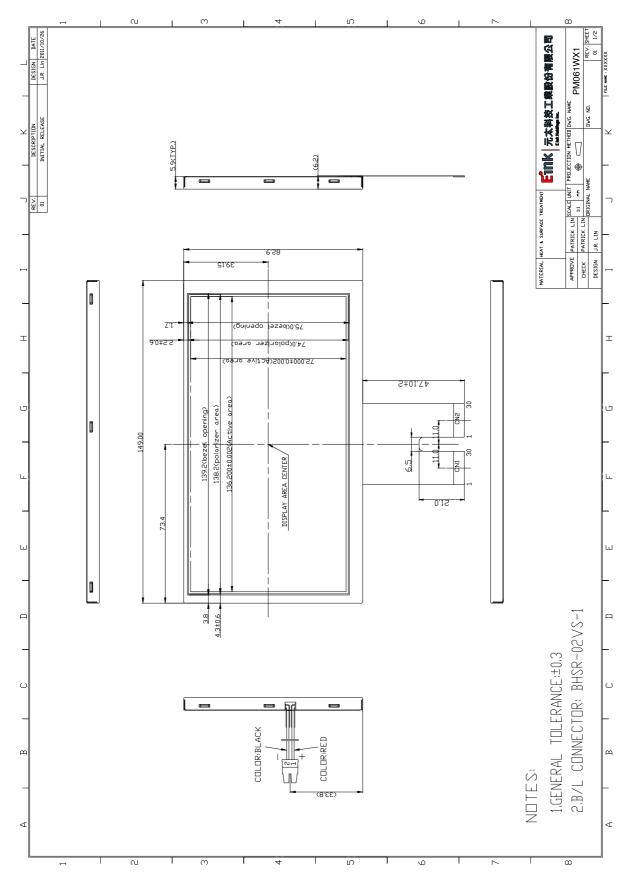
Parameter	Specifications	Unit	
Screen Size	6.1 (diagonal)	inch	
Display Format	800 $ imes$ (R, G, B) $ imes$ 480	dot	
Display Colors	262,144		
Active Area	136.2 (H) $ imes$ 72.0 (V)	mm	
Pixel Pitch	0.17025 (H) $ imes$ 0.150 (V)	mm	
Pixel Configuration	Stripe		
Outline Dimension	149.0 (w) $ imes$ 82.9 (H) $ imes$ 5.9 (typ.) (D)		
	149.0 (w) $ imes$ 82.9 (H) $ imes$ 6.2 (FPC side) (D)	mm	
Weight	120±10	g	
Back-light	30-LED		
Surface treatment	Anti-glare		
Display mode	Normally White		
Gray scale inversion direction	6 o'clock		
	[ref to Note 13-1]		

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## PM061WX1

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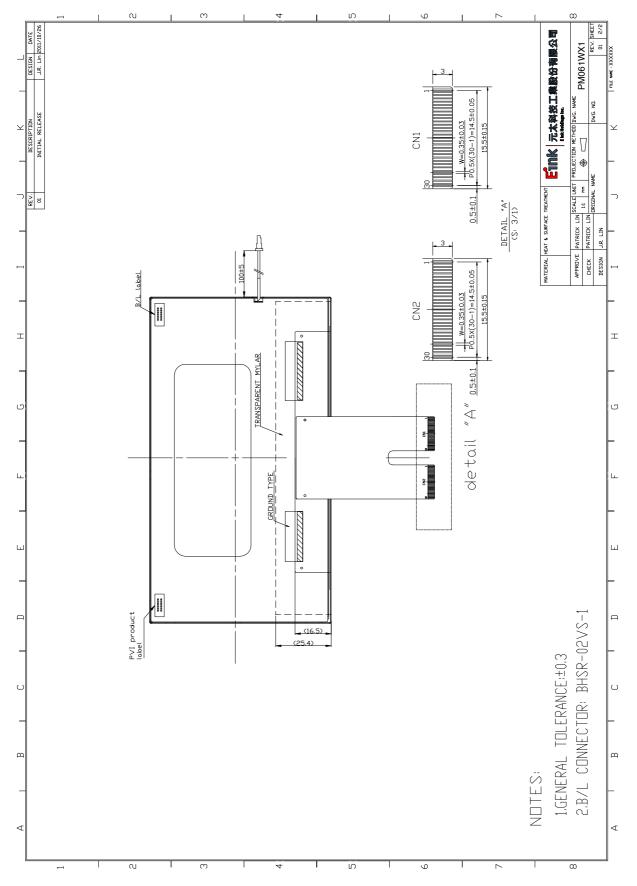
### 4. Mechanical Drawing of TFT-LCD Module :



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## PM061WX1







### 5. Input / Output Terminals :

### 5-1) TFT-LCD Panel Driving :

Connecter type : IRISO 9637S-30Y905 30pin Pitch : 0.5mm

CN 1

Pin No.	Symbol	I/O	Function	Remark
1	DIO1	I/O	Horizontal Start Pulse Signal Input or Output	Note 5-6
2	VSS1	I	Ground	
3	VDD1	I	Power Supply	
4	CLK	_	Horizontal Shift Clock	Note 5-4
5	VSS1		Ground	
6	R/L		Right / Left selection	Note 5-6
7	R0		Red Data (LSB)	
8	R1	-	Red Data	
9	R2	I	Red Data	
10	R3	I	Red Data	
11	R4	_	Red Data	
12	R5		Red Data (MSB)	
13	VSS1		Ground	
14	G0		Green Data (LSB)	
15	G1	-	Green Data	
16	G2	-	Green Data	
17	G3	I	Green Data	
18	G4	_	Green Data	
19	G5	-	Green Data (MSB)	
20	VSS1	-	Ground	
21	B0	-	Blue Data (LSB)	
22	B1	I	Blue Data	
23	B2	I	Blue Data	
24	B3	I	Blue Data	
25	B4	I	Blue Data	
26	B5	I	Blue Data (MSB)	
27	LD	I	Load output signal	Note 5-7
28	REV	I	Data invert control	Note 5-8
29	POL	I	Polarity selection	Note 5-9
30	DIO2	I/O	Horizontal Start Pulse Signal Input or Output	Note 5-6

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#### **CN 2**

Pin No.	Symbol	I/O	Function	Remark
1	VSS2		Ground	
2	V1		Gamma Voltage 1	
3	V2		Gamma Voltage 2	
4	V3		Gamma Voltage 3	
5	V4		Gamma Voltage 4	Note 5-11
6	V5		Gamma Voltage 5	
7	V6	Ι	Gamma Voltage 6	
8	V7	Ι	Gamma Voltage 7	
9	VSS2		Ground	
10	V8		Gamma Voltage 8	
11	V9		Gamma Voltage 9	
12	V10		Gamma Voltage 10	
13	V11		Gamma Voltage 11	Note 5-11
14	V12 I		Gamma Voltage 12	
15	V13		Gamma Voltage 13	
16	V14		Gamma Voltage 14	
17	VSS2		Ground	
18	VDD2		Voltage for analog circuit	
19	VCOM		Common Voltage	
20	XON		NC	Note 5-10
21	OE		Output Enable	Note 5-5
22	U/D		Up / Down Selection	Note 5-3
23	CKV		Vertical Shift Clock	Note 5-7
24	STVU	I/O	Vertical Shift Pulse Signal Input or Output	Note 5-3
25	STVD	I/O	Vertical Shift Pulse Signal Input or Output	Note 5-3
26	VGG	I	Gate On Voltage	Note 5-2
27	GND		Ground	
28	VCC		Voltage for logic circuit	
29	GND		Ground	
30	VEE	Ι	Gate Off Voltage	Note 5-1



Note 5-1 : Gate off voltage, V<sub>EE(TYP.)</sub>= -8V

Note 5-2 : Gate on voltage,  $V_{GG(TYP.)}$ = +17V

Note 5-3 : Select up or down shift

U/D	STVU	STVD	Shift
1	Hi-Z	Input	Down to Up
0	Input	Hi-Z	Up to Down

Note 5-4 : Gate driver shift clock

Note 5-5 : When OE is connected to high "1", the driver outputs are disabled (Gate output =  $V_{EE}$ ). Under this condition, the operation of registers will not be affected.

Note 5-6 : Select left or right shift

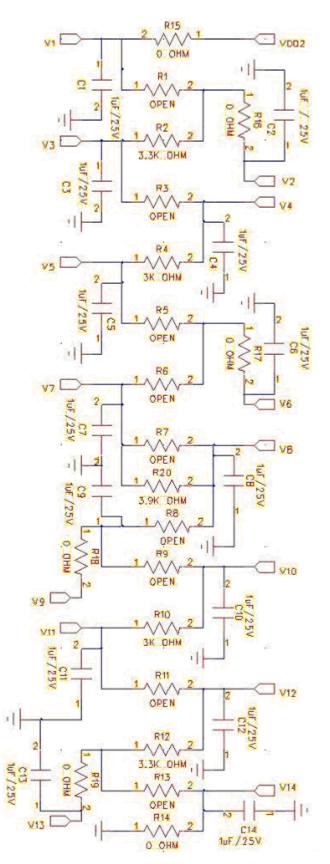
R/L	DIO1	DIO2	Shift
1	Input	Hi-Z	Left to right
0	Hi-Z	Input	Right to left

- Note 5-7 : Latch the polarity of outputs and switch the new data to outputs. At the rising edge (LD), latch the "POL" signal to control the polarity of the outputs.
- Note 5-8 : Control whether the Data R0~G5 are inverted or not. (PVI suggests connecting to GND) When "REV=1", these data will be inverted. EX: "00"→"3F", "07"→"38", "15"→"2A"
- Note 5-9 : Polarity selector for dot-inversion control. Available at the rising edge of LD. When POL=1: Even outputs range from V1~V7, and Odd outputs range from V8~V14; When POL=0: Even outputs range from V8~V14, and Odd outputs range from V1~V7.

Note 5-10 : This pin is NC or must connect VCC.



Note 5-11 : Typical Application Circuit (When  $V_{DD2}$  (Typ.) = +9.5V)





#### 5-2) Backlight driving :

Connector type : JST BHSR-02VS-1

Pin No	Symbol	Description	Remark
1	+	Input terminal (Anode)	Wire color : Red
2	-	Input terminal (Cathode)	Wire Color : Black

### 6. Absolute Maximum Ratings :

VSS1=VSS2=GND=0V, Ta=25℃

Parameters	Symbol	MIN.	MAX.	Unit	Remark
	V <sub>DD1</sub>	-0.3	5.0	V	
	V <sub>CC</sub>		5.0	V	
Supply Voltage	V <sub>DD2</sub>	-0.5	12.0	V	
	V <sub>GG</sub>	-0.3	40.0	V	
	$V_{GG}$ - $V_{EE}$	-	40.0	V	
	V <sub>EE</sub>	-20	0.3	V	
Operating Temperature	Тор	-30	85	°C	
Storage Temperature	Tst	-40	95	°C	

### 7. Electrical Characteristics :

### 7-1) Recommended Operating Conditions:

VSS1=VSS2=GND=0V, Ta=25℃

Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Supply Voltage for Source Driver	V <sub>DD1</sub>	3.0	3.3	3.6	V	
Supply voltage for Source Driver	V <sub>DD2</sub>	-	9.5	-	V	
	$V_{GG}$	-	17.0	-	V	
Supply Voltage for Gate Driver	V <sub>EE</sub>	-	-8.0	-	V	
	V <sub>CC</sub>	3.0	3.3	3.6	V	
Digital Input Voltage	VIH	$0.8V_{DD1}$	-	V <sub>DD1</sub>	V	
Digital input voltage	VIL	0	-	$0.2V_{DD1}$	V	
V <sub>com</sub> Voltage	V <sub>com</sub>	-	3.3	-	V	



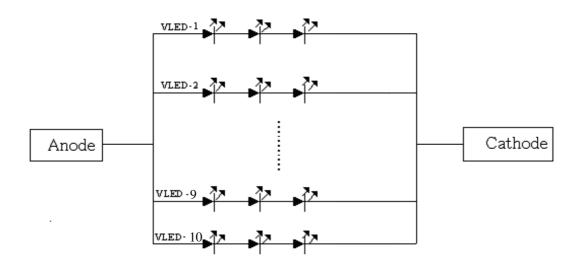
### 7-2) Recommended driving condition for LED back light :

						Ta = 25 <sup>°C</sup>
Parameter	Symbol	Min	TYP	MAX	Unit	Remark
Supply voltage of LED backlight	$V_{\text{LED}}$	-	-	10.4	V	Note 7-1
Supply current of LED backlight	I <sub>LED</sub>	-	12	-	mA	Note 7-2
Backlight Power Consumption	PLED	-	-	1248	mW	Note 7-3

Note 7-1 : The  $I_{LED}$ = 120 mA, Constant current.

Note 7-2 : The LED driving condition is defined for each LED module. (3 LED Serial) Input current = 12mA \* 10 = 120mA

Note 7-3 :  $P_{LED} = V_{LED-1} * I_{LED-1} + V_{LED-2} * I_{LED-2} + V_{LED-9} * I_{LED-9} + V_{LED-10} * I_{LED-10}$ 



#### 7-3) Power Consumption :

Parameter	Symbol	Condition	Тур.	Max.	Unit	Remark
Supply Current for Gate Driver (Hi level)	I <sub>GG</sub>	$V_{GG}$ = +17V	0.13	0.39	mA	
Supply Current for Gate Driver (Low level)	I <sub>EE</sub>	$V_{EE}$ = -8V	0.14	0.42	mA	
Supply Current for Source Driver (Digital)	I <sub>DD1</sub>	V <sub>DD1</sub> = +3.3	3.49	6.98	mA	
Supply Current for Source Driver (Analog)	I <sub>DD2</sub>	V <sub>DD2</sub> = +9.5	15.34	30.68	mA	
Supply Current for Gate Driver (Digital)	I <sub>CC</sub>	$V_{CC} = +3.3$	0.10	0.30	mA	
LCD Panel Power Consumption			160.55	325.30	mW	Note 7-4
Total Power Consumption			-	1.573	W	

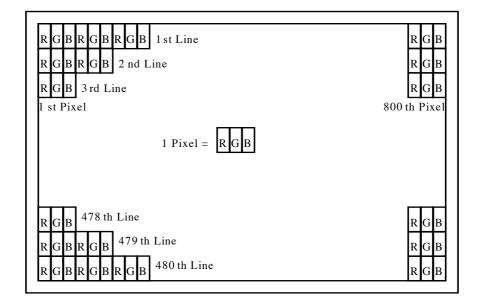
Note 7-4 : The power consumption for back light is not included.

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### 8. Pixel Arrangement :

The LCD module pixel arrangement is the stripe.

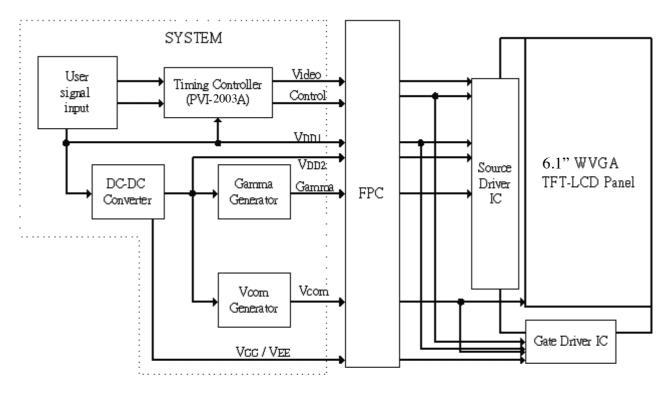




### 9. Display Color and Gray Scale Reference :

Color		Input Color Data																	
		Red				Green					Blue								
		R5	R4	R3	R2	<b>R1</b>	R0	G5	G4	G3	G2	G1	G0	B5	<b>B</b> 4	<b>B</b> 3	<b>B2</b>	<b>B1</b>	<b>B0</b>
	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	↓	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$
	Brighter																		
	Red (61)	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	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	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$
	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	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$	$\downarrow$
	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

10. Block Diagram : **TFT-module Block Diagram :** 



If you use PM061WX1, you can apply PVI-2003 A (Timing controller) which will gernerate timing signals to support PM061WX1.



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## 11. Interface Timing

11.1) Timing Parameters

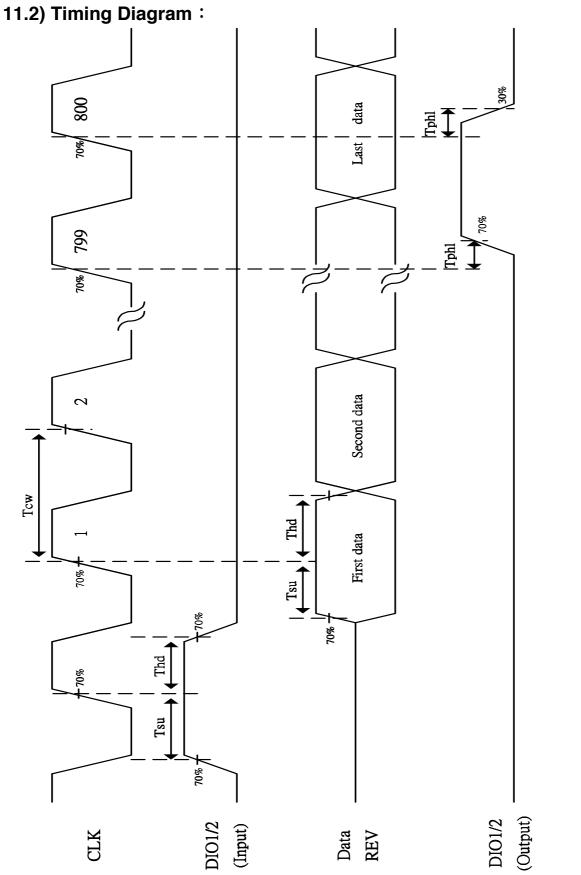
AC Electrical Characteristics (V<sub>CC</sub>=V<sub>DD1</sub>= 3.3V, V<sub>DD2</sub>=9.5V, GND=V<sub>SS1</sub>=V<sub>SS2</sub>=0V, Ta=25 °C)

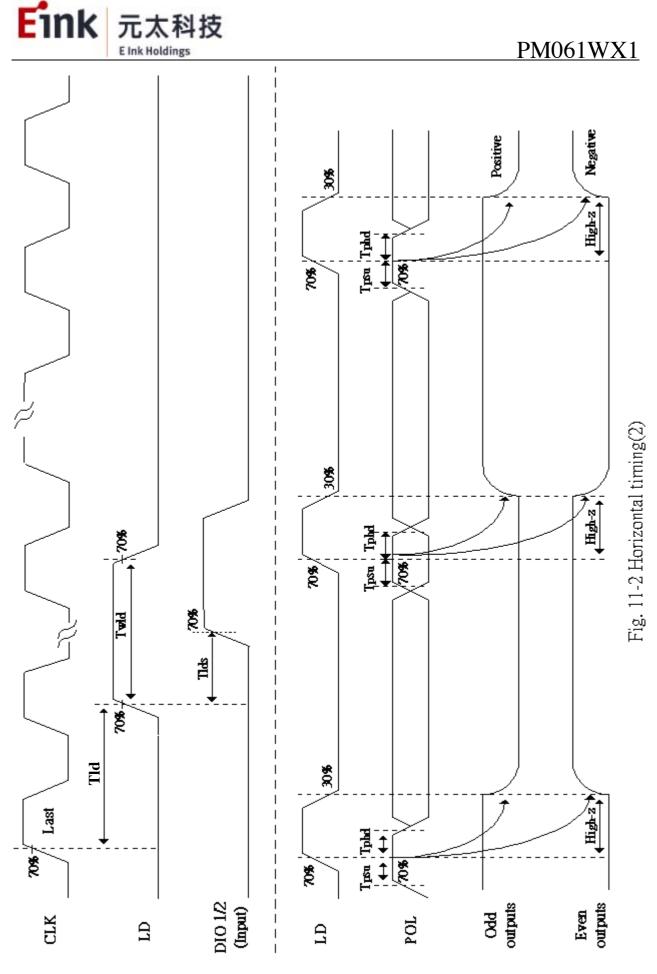
Parameter	Symbol	Min.	Тур.	Max.	Unit
CLK Frequency	Fclk	-	32	40	MHz
CLK Pulse Width	Tcw	25	-	-	ns
Data Set-up Time	Tsu	4	-	-	ns
Data Hold Time	Thd	2	-	-	ns
Propagation Delay of DIO2/1	Tphl	6	10	15	ns
Time That The Last Data to LD	Tld	1	-	-	Tcw
Pulse width of LD	Twld	2	-	-	Tcw
Time That LD to DIO1/2	Tlds	5	-	-	Tcw
POL Set-up Time	Tpsu	6	-	-	ns
POL Hold Time	Tphd	6	-	-	ns
OE Pulse Width	T <sub>OEV</sub>	1	-	-	μs
CKV Pulse Width	Тски	500	-	-	ns
STV Set-up Time	T <sub>SUV</sub>	400	-	-	ns
STV Hold Time	T <sub>HDV</sub>	400	-	-	ns
Horizontal Display Period	T <sub>HDP</sub>	-	800	-	Tcw
Horizontal Period Timing Range	T <sub>HP</sub>	-	1056	-	Tcw
Horizontal Lines Per Field	Τv	484	508	620	T <sub>HP</sub>
Vertical Display Timing Range	T <sub>DV</sub>	-	480	-	T <sub>HP</sub>

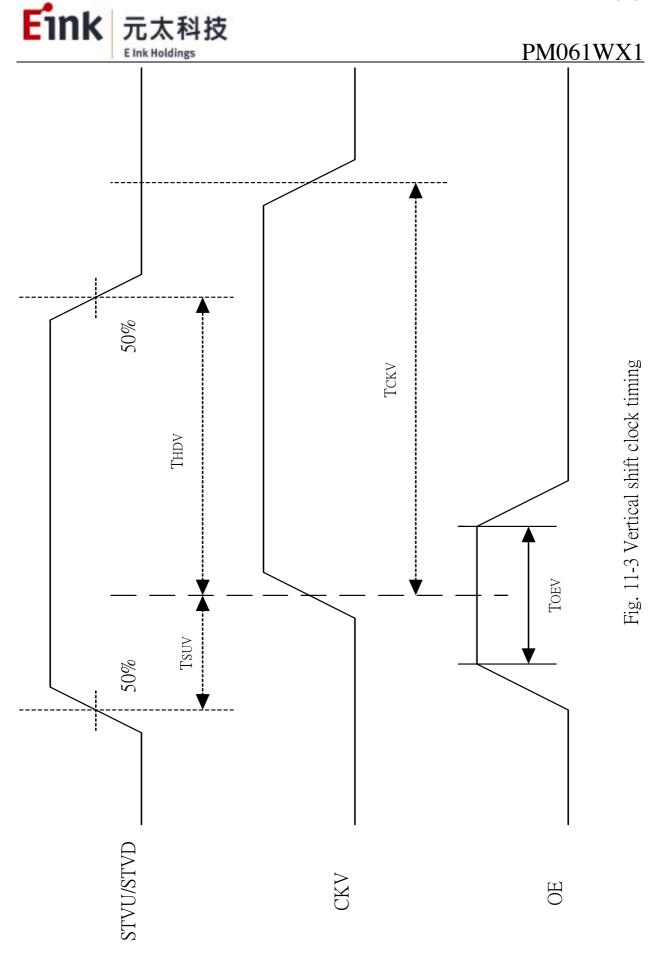
Fig. 11-1 Horizontal timing (1)



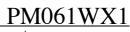
## PM061WX1

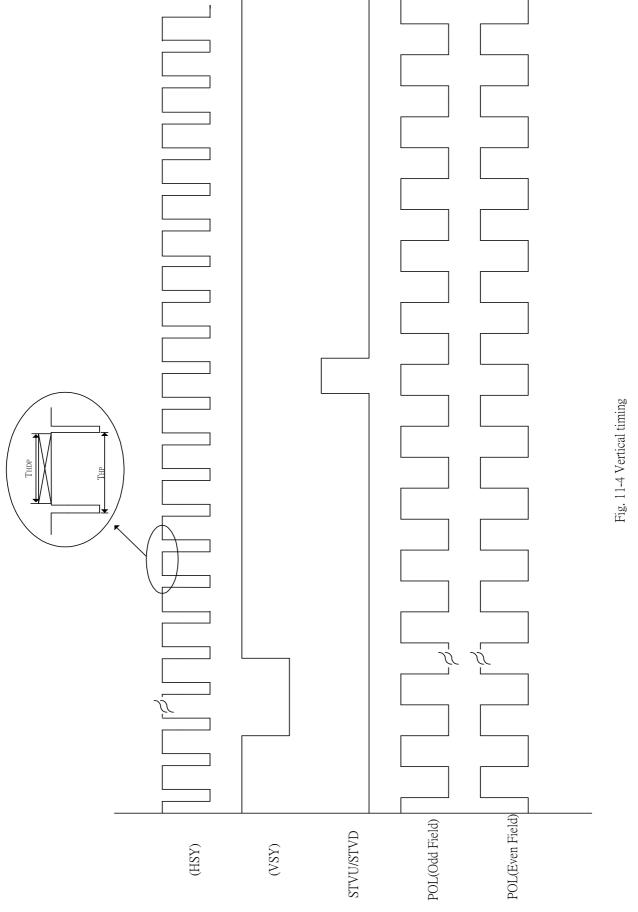






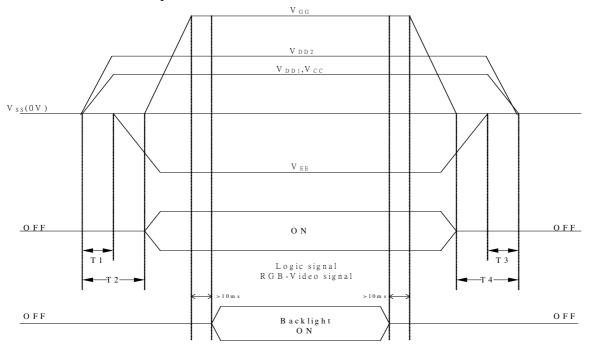








#### 12. Power On Sequence :



- $1.10ms \leq T1 < T2$
- 2.  $0ms < T3 \le T4 \le 10ms$

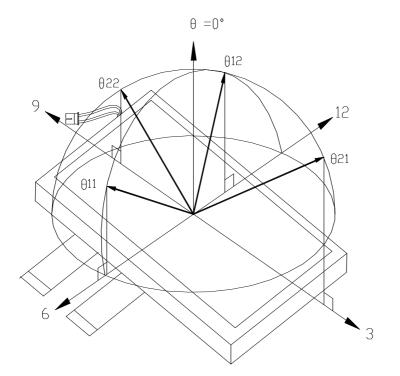
### **13. Optical Characteristics :**

#### 13-1) Specification :

								<b>Ta=25</b> ℃	
Para	meter	Symbol	Condition	MIN.	TYP.	MAX.	Unit	Remarks	
Viewing	Horizontal	θ 21, θ 22		70	75		deg		
Viewing Angle	Vertical	0 <b>12</b>	$CR \ge 10$	45	50	-	deg	Note 13-1	
Angie	ventical	θ 11		50	60	-	deg		
Contrast Ratio		CR	At optimized Viewing angle	250	400	-	-	Note 13-2	
Response	Response Rise time Fall		⊖ <b>=0</b> °	-	10	15	ms	Note 13-3	
time			0=0	-	15	20	ms	Note 13-3	
Brightness			θ <b>=0°/</b> φ <b>=0</b>	400	500		cd/m <sup>2</sup>	Note 13-4	
Luminance Uniformity		U	⊖ <b>=0</b> °	75	80	-	%	Note 13-5	
LED Life Time				50000	-	-	hr	Note 13-8	
White Chromaticity		x	⊖ <b>=0</b> °	0.27	0.31	0.35	-		
		у	⊖ <b>=0</b> °	0.30	0.34	0.38	-		
Cros	s Talk		⊖ <b>=0</b> °	-	-	3.5	%	Note 13-6	

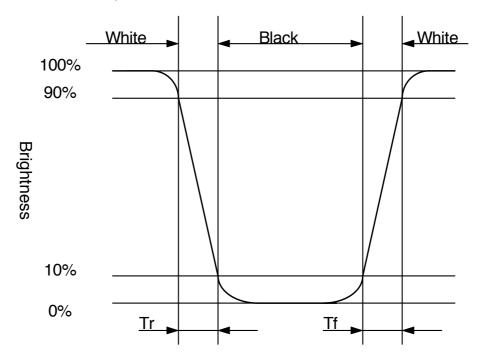


#### Note 13-1 : The definitions of viewing angles are as follow



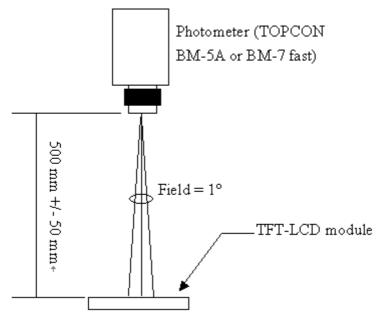
Note 13-2 : The definition of contrast ratio  $CR = \frac{Luminance at White Pattern}{Luminance at Black Pattern}$ 

Note 13-3 : Definition of Response Time Tr and Tf :





Note 13-4 : 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

Note 13-5 : The uniformity of LCD is defined as :

 $U = \frac{\text{The Minimum Brightness of the 9 testing Points}}{1}$ 

The Maximum Brightness of the 9 testing Points

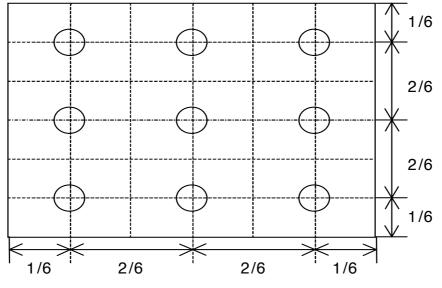
Luminance meter : BM-5A or BM-7 fast (TOPCON)

Measurement distance : 500 mm +/- 50 mm

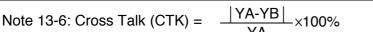
Ambient illumination < 1 Lux

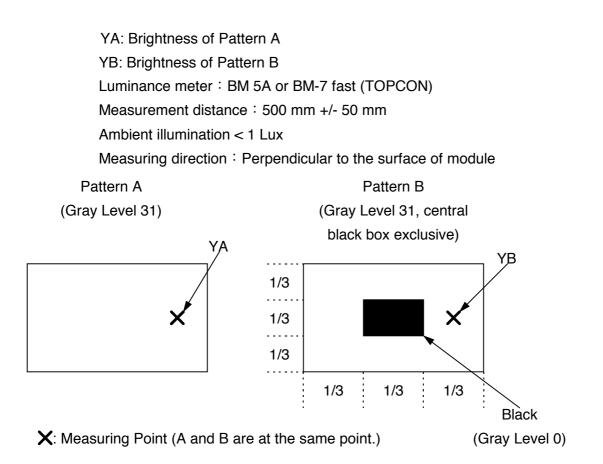
Measuring direction : Perpendicular to the surface of module

The test pattern is white.









Note 13-7 : Topcon BM-7(fast)luminance meter 1° field of view is used in the testing. Note 13-8 : The "LED Life time" is defined as the module brightness decrease to 50% original Brightness that the ambient temperature is 25°C and I<sub>LED</sub>=120mA.

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## PM061WX1



### 14. Handling Cautions :

#### 14-1) Mounting of module :

- a) Please power off the module when you connect the input/output connector.
- b) Polarizer which is made of soft material and susceptible to flaw must be handled carefully.
- c) Protective film (Laminator) is applied on surface to protect it against scratches and dirt.
- d) Please following the tear off direction as figure14-1 to remove the protective film as slowly as possible, so that electrostatic charge can be minimized.

#### 14-2) 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.

#### 14-3) Adjusting module :

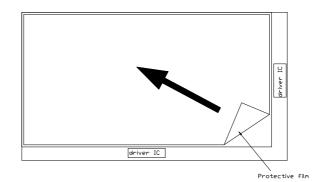
- a) Adjusting volumes on the rear face of the module have been set optimally before shipment.
- b) Therefore, do not change any adjusted values. If adjusted values are changed, the specifications described may not be satisfied.

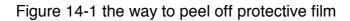
#### 14-4) Others :

- 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.

#### 14-5) Polarizer mark :

The polarizer mark is to describe the direction of wide view angle film how to mach up with the rubbing direction.







### 15. Reliability Test :

No	Test Item	Test Condition	Remark
1	High Temperature Storage Test	Ta = +95 ℃, 240 hrs	
2	Low Temperature Storage Test	Ta = -40 ℃, 240 hrs	
3	High Temperature Operation Test	Ta = +85 ℃, 240 hrs	
4	Low Temperature Operation Test	Ta = -30 ℃, 240 hrs	
_	High Temperature & High Humidity	Ta = +60 ℃, 90%RH, 240 hrs	
5	Operation Test	(No Condensation)	
	Thermal Cycling Test	-30 °C →+80 °C , 200 Cycles	
6	(non-operating)	30min 30min	
		Frequency:10~55 H <sub>Z,</sub> Amplitude:1 mm	
7	Vibration Test	Sweep time : 11 min	
	(non-operating)	Test Period : 6 Cycles for each direction of	
		X, Y, Z	
	Shock Test	100G, 6ms	
8	(non-operating)	Direction: $\pm X$ , $\pm Y$ , $\pm Z$ Cycle: 3 times	
9	Electrostatic Discharge Test	200pF, 0Ω ±200V	
	(non-operating)	1 time / each terminal	

#### Ta : ambient temperature

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

[Criteria]

There can be no display failures after exposure to reliability tests (including : line defect, no image). All the cosmetic specification is judged before the reliability stress.



16. Packing :

#### ZONE REV. DOCUUMENT NO. DESCRIPTION DATE REV.BY 50\_0302394 (1)2 (3) (1)Tape <u>NOTE:</u> 1.Q'TY: 40 pcs moudule /carton. 2.Dimension: 530\*295\*230mm 3.Weight: 7.5 Kg 4 4 CARTON 3 靜電袋 40 抗靜電 2 PM061WX1 40 瓦楞隔板緩衝材 上蓋十 底座 ITEM DESCRIPTION QTY REMARK MTL.SPEC. UNSPECIFIED TOL'S REMARK Eink 元太科技工業股份有限公司 ANGLE ROUGHNESS UNIT SHEET DWG.TITLE SCALE APPROVE Frank shin 09.03.24 1 of 1 PM061WX1 Module Packing Draw CHECK Frank shin 09 03 24 MTL.NO. DWG FILE: REV. $\mathop{\rm A}_4_{\rm SIZE}$ DRAWN 09 03 24 Josephh 01

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# PM061WX1