

Version : <u>1.1</u>

TECHNICAL SPECIFICATION

MODEL NO.: PW065XS1

Customer's Confirmation

Customer

Date

Ву

PVI's Confirmation

Confirmed By

Prepared By

PRIME VIEW INTERNATIONAL CO.,LTD. 3,LI SHIN RD. 1,SCIENCE-BASED INDUSTRIAL PARK,HSINCHU,TAIWAN,R.O.C. http://www.pvi.com.tw

Date : Mar. 27 , 2003

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TECHNICAL SPECIFICATION

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1. Application

This technical specification applies to 6.5" color TFT-LCD module, PW065XS1. The applications of the panel are car TV, portable DVD, GPS, multimedia applications and others AV system.

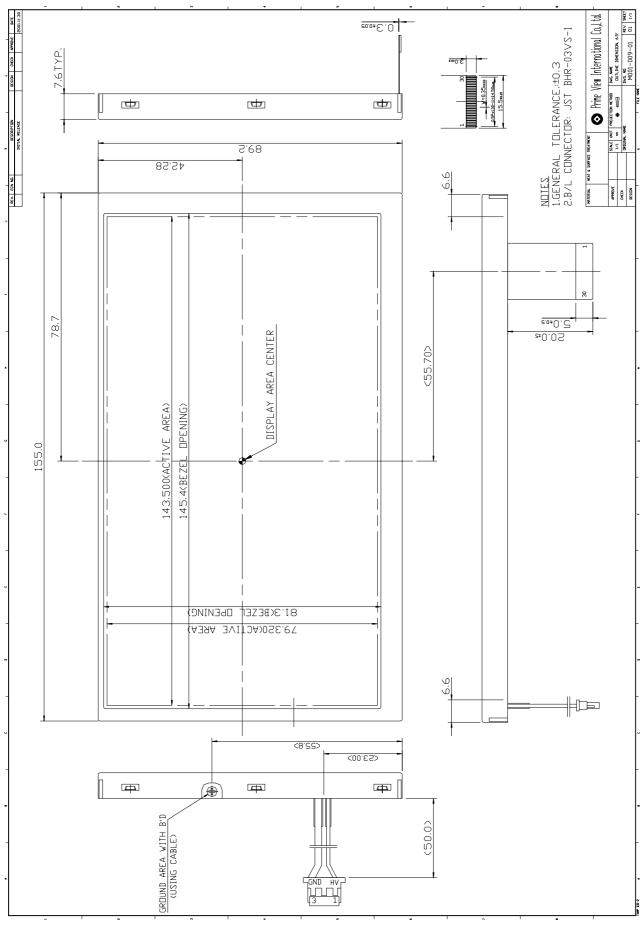
- 2. Features
 - . Pixel in stripe configuration
 - . Compatible with NTSC and PAL system
 - . Slim and compact
 - . High Brightness
 - . Up / Down and Left / Right Image Reversion
 - . Wide Viewing Angle
 - . Support Multi Video Display Mode (With PVI timing controller : PVI-1004B)

3. Mechanical Specifications

Parameter	Specifications	Unit
Screen Size	6.5 (16:9 diagonal)	Inch
Display Format	1200 (H) ×234(V)	Dot
Active Area	143.40 (H)×79.32 (V)	Mm
Dot Pitch	0.119 (H)×0.345 (V)	Mm
Pixel Configuration	Stripe	
Outline Dimension	155.0 (W)×89.2 (H)×7.6 (D) (typ.)	mm
Surface Treatment	Anti-Glare+WV film	
Weight	164±3	g

PW065XS1

4. Mechanical Drawing of TFT-LCD Module



5. Input / Output Terminals

LCD Module Connector FPC Down Connect, 30 Pins, Pitch: 0.5 mm

Pin No	Symbol	I/O	Description	Remark
1	GND	-	Ground for logic circuit	
2	V _{CC}	Ι	Supply voltage of logic control circuit for gate driver	Note 5-3
3	NC	-	No connection	
4	V_{EE}	Ι	Negative power for gate driver	Note 5-4
5	NC	-	No connection	
6	V_{GH}		Positive power for gate driver	Note 5-5
7	NC	-	No connection	
8	STVD	I/O	Vertical start pulse	Note 5-1
9	STVU	I/O	Vertical start pulse	
10	CKV	Ι	Shift clock for gate driver	
11	U/D	Ι	Up / Down Control for gate driver	Note 5-1
12	OE3	I	Output enable for gate driver	
13	OE2		Output enable for gate driver	
14	OE1	Ι	Output enable for gate driver	
15	V _{COM}	Ι	Common electrode voltage	
16	STHL	I/O	Start pulse for source driver	Note 5-2
17	V _{SS2}	-	Ground for analog circuit	
18	V _R	Ι	Video Input R	
19	V_{G}	Ι	Video Input G	
20	VB	Ι	Video Input B	
21	V _{SS1}	-	Ground for digital circuit	
22	V_{DD2}	Ι	Supply power for analog circuit	Note 5-6
23	CPH1	Ι	Sampling and shift clock for source driver	
24	CPH2	Ι	Sampling and shift clock for source driver	
25	CPH3	Ι	Sampling and shift clock for source driver	
26	V _{DD1}	Ι	Supply power for digital circuit	Note 5-7
27	R/L	Ι	Left / Right Control for source driver	Note 5-2
28	NC	Ι	No Connection	
29	OEH	Ι	Output enable for source driver	
30	STHR	I/O	Start pulse for source driver	Note 5-2

Note 5-1

U/D	STVD	STVU	scanning direction
Vcc	Input	output	down to up
GND	Output	input	up to down

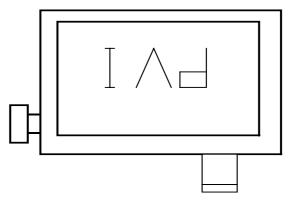
Note 5-2

R/L	STHL	STHR	scanning direction
Vcc	output	input	left to right
GND	input	output	right to left

The definitions of Note 5-1,5-2

U/D(PIN 11)=Low R/L(PIN 27)=High

U/D(PIN 11)=High R/L(PIN 27)=Low



Note 5-3 : $V_{CC}TYP. = +5V$

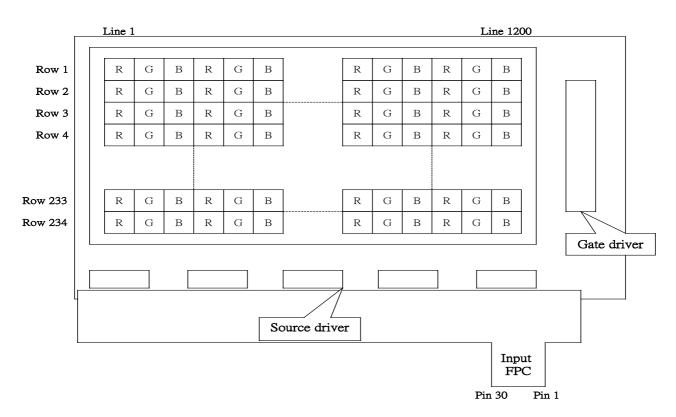
Note 5-4 : V_{EE} TYP.=-12V

Note 5-5 : V_{GH} TYP.=+17V

Note 5-6 : V_{DD2} TYP.=+5V

Note 5-7 : V_{DD1} TYP.=+5V

6. Pixel Arrangement and input connector pin NO.





7. Absolute Maximum Ratings

The followings are maximum values , which if exceeded, may cause faulty operation or damage to the unit.

Parameter		Symbol	MIN.	MAX.	Unit	Remark
Supply Voltage For Source Driver		V_{DD2}	-0.3	+5.8	V	
		V _{DD1}	-0.3	+7.0	V	
Supply Voltage For Gate Driver		V _{CC}	-0.3	+6.0	V	
		V_{GH} - V_{EE}	-0.3	+40.0	V	
	H Level	V _{GH}	-0.3	+25.0	V	
	L Level	V _{EE}	-16	+0.3	V	
Analog Signal Input Level	V_R, V_G, V_B	-0.2	V _{DD1} +0.2	V	Note 7-1	
Storage Temperature		-30	+80	°C		
Operation Temperature			-30	+80	°C	Note 7-2

Notes 7-1 : Analog Input Voltage means V_R,V_G,V_B.

Notes 7-2 : Optical characteristics shown in Table 10-1 are measured under Ta=+25 $^{\circ}$ C.

8. Electrical Characteristics

8-1) Recommended Driving condition for TFT-LCD panel

Parameter	Symbol	MIN.	Тур.	MAX.	Unit	Remark	
Supply Voltage For Source	Analog	V_{DD2}	+4.5	+5.0	+5.5	V	
Driver	Logic	V_{DD1}	+4.5	+5.0	+5.5	V	
	H level	V_{GH}	+15	+17	+19	V	
Supply Voltage For Gate Driver	L level	$V_{\text{EE DC}}$	-13.0	-12	-10.5		DC Component of V_{EE}
Supply voltage for Gate Driver		$V_{\text{EE AC}}$		+6.0		V_{P-P}	$\begin{array}{lll} AC & Component \\ of \ V_{EE} \end{array}$
	Logic	V _{CC}	+4.5	+5.0	+5.5	V	
Analog Signal input Level	Amplitud		+0.3		Vcc-0.3	V	
Digital input voltage	H level	V _{IH}	0.7 VDD1	-	Vdd1	V	
	L level	V _{IL}	-0.3	-	0.3 VDD1	V	
Digital output voltage	H level	V _{OH}	0.7 VDD1	-	Vdd1	V	
	L level	V _{OL}	-0.3	-	0.3 VDD1	V	
V	$V_{\text{COM AC}}$	-	+6.0	-	V_{P-P}	AC Component of V _{COM}	
V _{COM}		$V_{\text{COM DC}}$	1.3	1.5	1.7	v	DC Component of V _{COM} Note 8-1

Note 8-1 : PVI strongly suggests that the V_{COM DC} level shall be adjustable , and the adjustable level range is $1.5V\pm1V$, every module's V_{COM DC} level shall be carefully adjusted to show a best image performance.

8-2)	Recommended	drivina	condition	for	back light

						Ta= 25 U
Parameter	Symbol	Min.	Тур.	Max.	Unit	Remark
Lamp voltage	VL	500	550	600	Vrms	I _L =6mA
Lamp current	ΙL	3	6	8	mA	Note 8-2
Lamp frequency	PL	30	43	80	KHz	Note 8-3
Kick-off voltage(25℃) (Reference Value)	Vs		720	830	Vrms	Note 8-4

- Note 8-2 : In order to satisfy the quality of B/L , no matter use what kind of inverter , the output lamp current must between Min. and Max. to avoid the abnormal display image caused by B/L.
- Note 8-3 : The waveform of lamp driving voltage should be as closed to a perfect sine wave as possible.

Note 8-4 : The Kick-off times \geq 1sec.

Back Light driving

Back Light Connector : JST BHR-03VS-1, Pin No. : 3 , Pitch : 4 mm

Pin No	Symbol	Description	Remark
1	VL1	Input terminal (Hi voltage side)	
2	NC	No Connection	
3	VL2	Input terminal (Low voltage side)	Note 8-5

Note 8-5 : Low voltage side of back light inverter connects with Ground of inverter circuits.

8-3) Power Consumption

Ta= 25 ℃

Parameter	Symbol	Conditions	TYP.	MAX	Unit	Remark
Supply current for Gate Driver (Hi level)	I _{GH}	$V_{GH} = +17V$	0.63	0.9	mΑ	
Supply current for Gate Driver (Low level)	I _{EE}	$V_{\text{EE}}=\text{-}12V$	0.85	1.02	mΑ	V_{EE} center voltage
Supply current for Source Driver(Digital)	I _{DD1}	$V_{\text{DD1}}=\!+5V$	1.14	1.37	mΑ	
Supply current for Source Driver(Analog)	I _{DD2}	$V_{DD2} = +5V$	16.6	19.9	mΑ	
Supply current for Gate Driver (Digital)	I _{CC}	$V_{CC} =$ +5V	0.03	0.05	mΑ	
LCD Panel Power Consumption			109.76	134.14	mW	Note 8-6
Back Light Lamp Power Consumption			3.30		W	Note 8-7

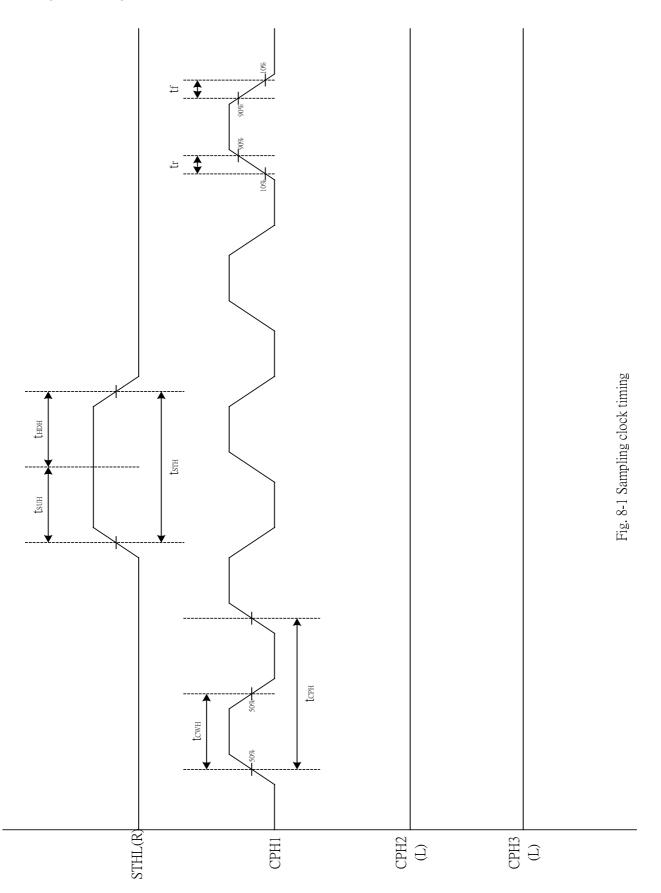
Note 8-6 : The power consumption for back light is not included.

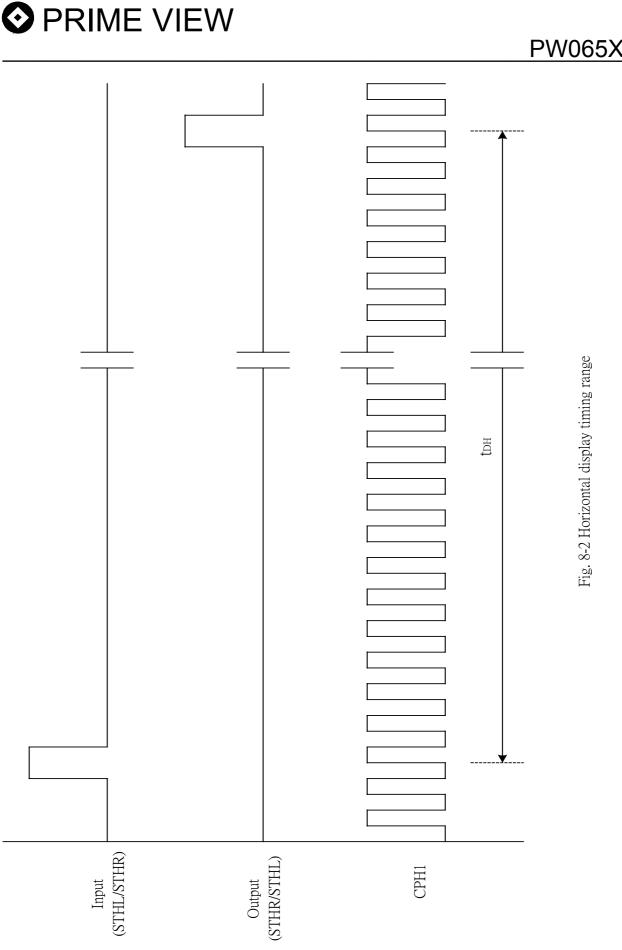
Note 8-7 : Back light lamp power consumption is calculated by $I_L \times V_L$.

8-4) Timing Characteristics Of Input Signals

Characteristics	Symbol	Min.	Тур.	Max.	Unit	Remark
Rising time	t _r	-	-	10	ns	
Falling time	t _f	-	-	10	ns	
High and low level pulse width	t _{CPH}	120	125	130	ns	CPH1~CPH3
CPH pulse duty	t _{CWH}	40	50	60	%	CPH1~CPH3
STH setup time	t _{sun}	20	-	-	ns	STHR,STHL
STH hold time	t _{HDH}	20	-	-	ns	STHR,STHL
STH pulse width	t _{sth}	-	1	-	t _{CPH}	STHR,STHL
STH period	t _H	61.5	63.5	65.5	μ s	STHR,STHL
OEH pulse width	t _{OEH}	-	1.22	-	μ s	OEH
Sample and hold disable time	t _{DIS1}	-	8.28	-	μ s	
OEV pulse width	t _{OEV}	-	10.8	-	μ s	OEV
CKV pulse width	t _{CKV}	-	32	-	μs	CKV
Clean enable time	t _{DIS2}	-	5.4	-	μs	
Horizontal display start	t _{SH}	_	0	_	t _{CPH} /3	
Horizontal display timing range	t _{DH}	-	1200	-	t _{CPH} /3	
STV setup time	t _{SUV}	400	-	-	ns	STVU,STVD
STV hold time	t _{HDV}	400	-	-	ns	STVU,STVD
STV pulse width	t _{STV}	-	-	1	t _H	STVU,STVD
Horizontal lines per field	t _v	256	262	268	t _H	
Vertical display start	t _{sv}		3	-	t _H	
Vertical display timing range	t _{DV}		234	-	t _H	
VCOM rising time	t _{rCOM}		-	5	μ s	
VCOM falling time	t _{fCOM}	-	-	5	μ s	
VCOM delay time	t _{DCOM}		-	3	μ s	
RGB delay time	t _{DRGB}		-	1	μ s	



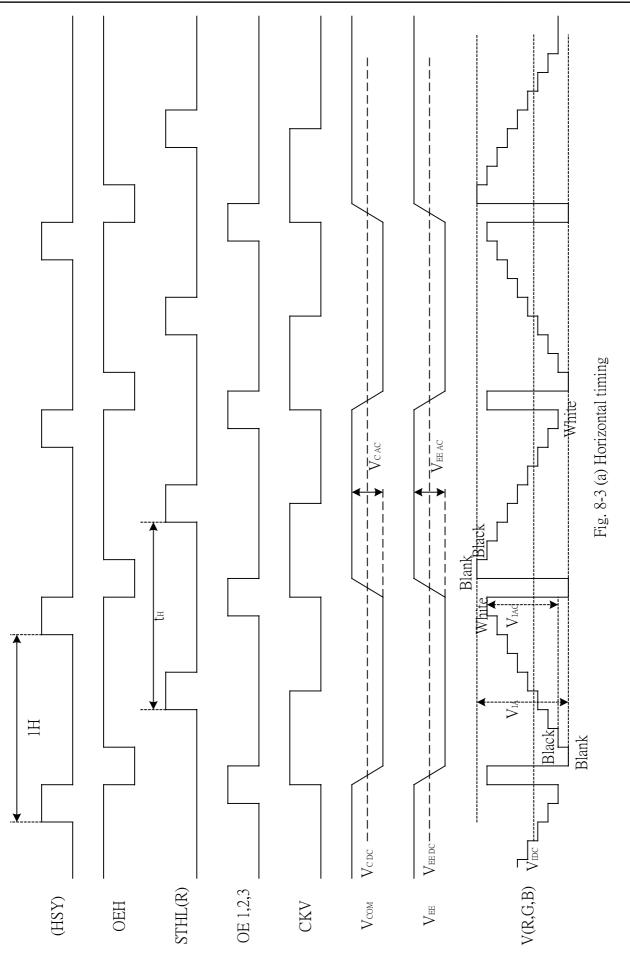




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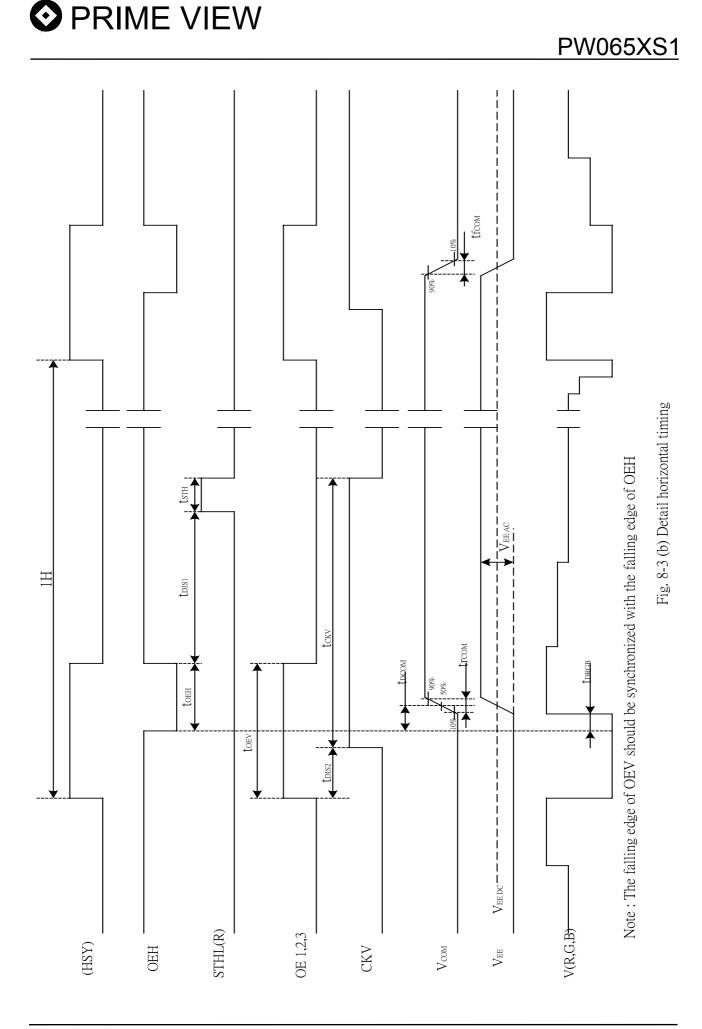
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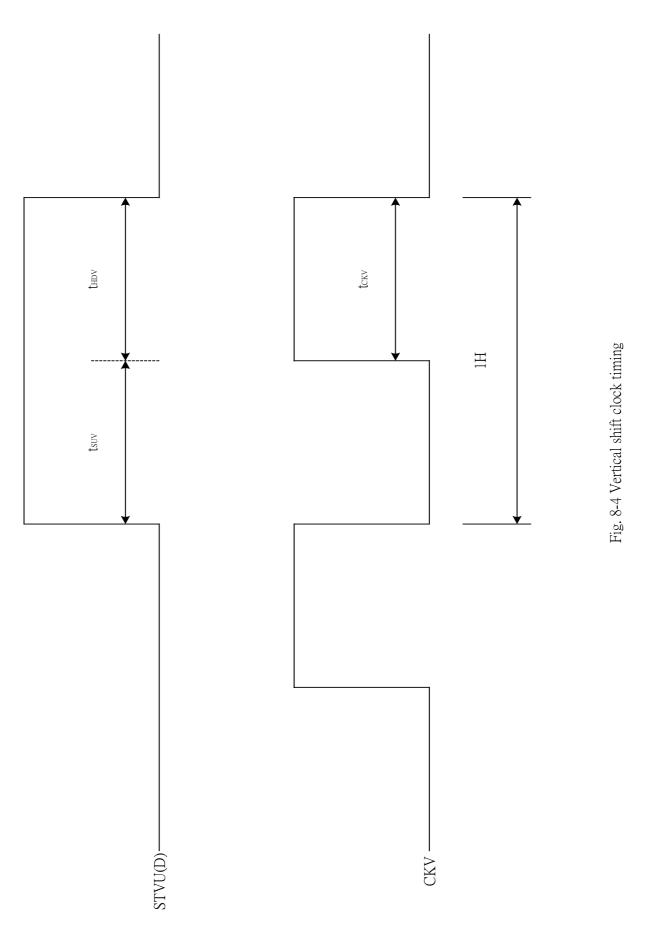


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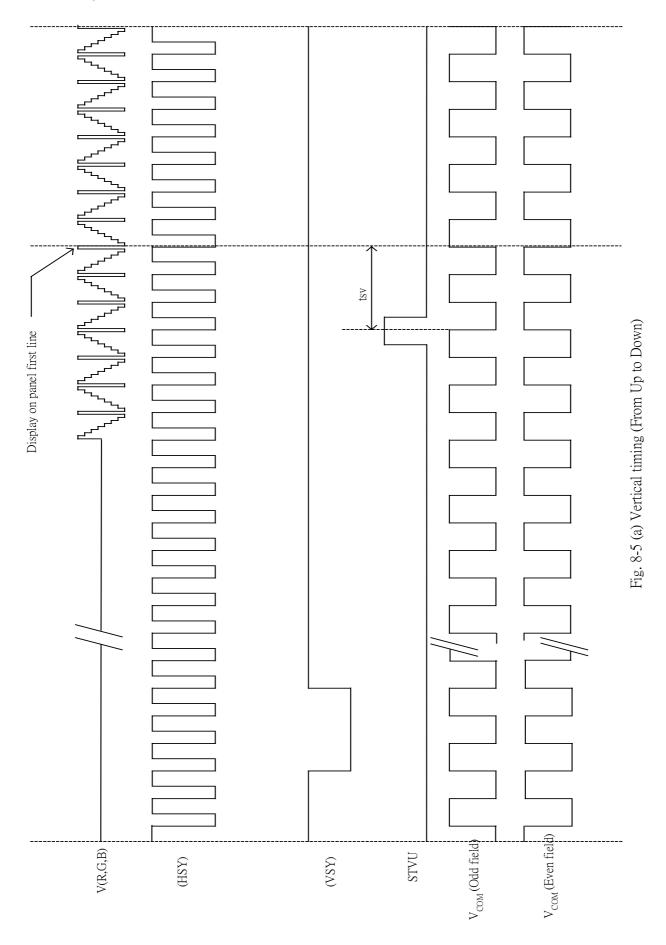


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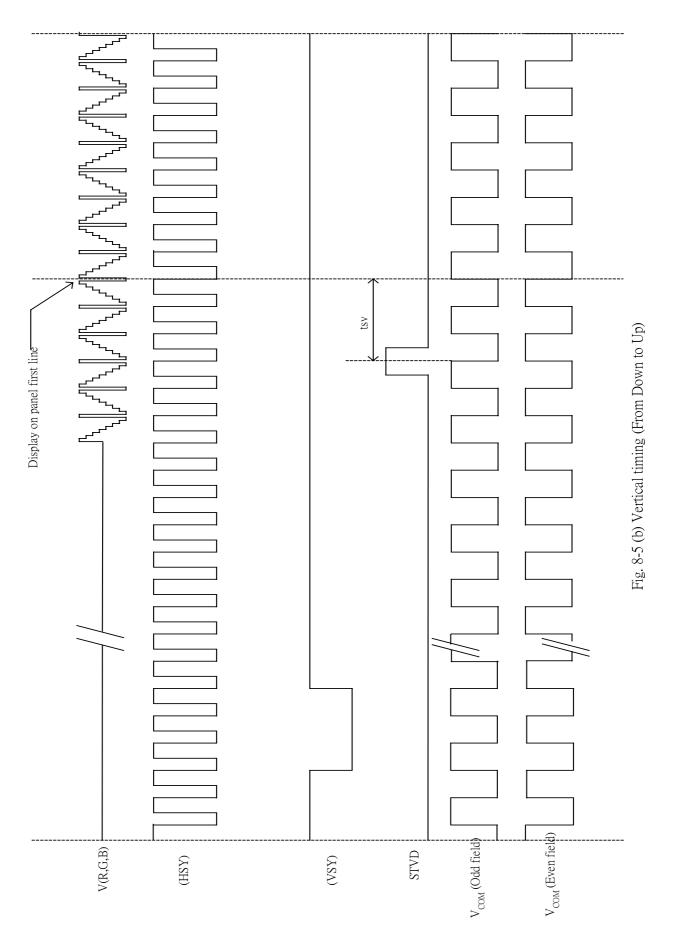


Vertical timing (From up to down)



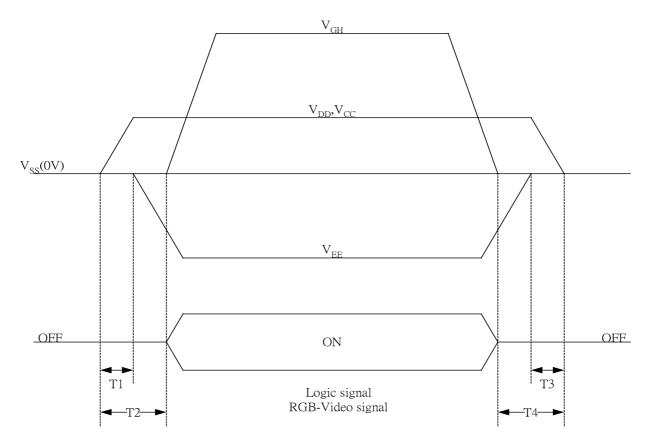


Vertical timing (From down to up)



9. Power on Sequence

The Power on Sequence only effect by $V_{CC}, V_{SS}, V_{DD}, V_{EE}$ and V_{GH} , the others do not care.



- 1) $10ms \le T1 < T2$
- 2) 0ms<T3 \leq T4 \leq 10ms

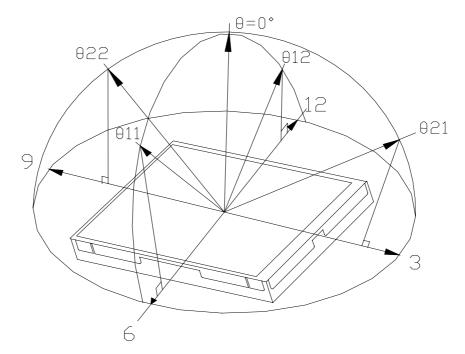
10. Optical Characteristics

10-1) Specification

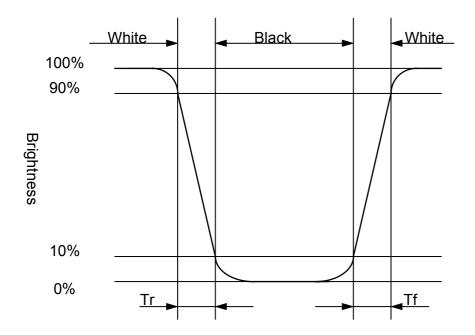
Ta = 25℃

Parameter		Symbol	Condition	MIN.	TYP.	MAX.	Unit	Remarks	
			Condition		IIF.			Relliaiks	
Viewing	Horizontal	heta 21, $ heta$ 22		55	60		deg		
Angle	Vertical	heta 12	CR≧10	35	40		deg	Note 10-1	
		θ 11		50	55		deg		
Contrast Ratio		CR	At optimized Viewing angle	110	150			Note 10-2	
Response time	Rise	Tr	<i>θ</i> =0°		15	30	ms	Note 10-4	
	Fall	Tf	0-0		25	50	ms	11010 10-4	
Brightness				350	400		cd/ m ^²	Note 10-3	
Transmission Ratio		Т		8.0	8.5	9.0	%		
Uniformity		U		70	75		%	Note 10-5	
White		х		0.283	0.313	0.343			
Chromaticity		У	<i>θ</i> =0°	0.299	0.329	0.359		Note 10-3	
		Тс		6400	6600	6800	K		
Lamp Life Time +25°C				20000	30000		hr		

Note 10-1 : The definitions of viewing angles



- Note $10-2: CR = \frac{Luminance when Testing point is White}{Luminance when Testing point is Black}$ (Testing configuration see 8-2) Contrast Ratio is measured in optimum common electrode voltage.
- Note 10-3 : 1.Topcon BM-7(fast) luminance meter 2°field of view is used in the testing (after 20~30 minutes operation). 2.Lamp current : 6 mA 3.Inverter model : TDK-347.
- Note 10-4 : The definition of response time:



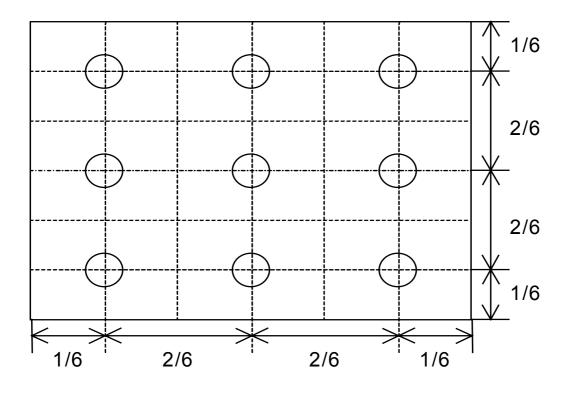


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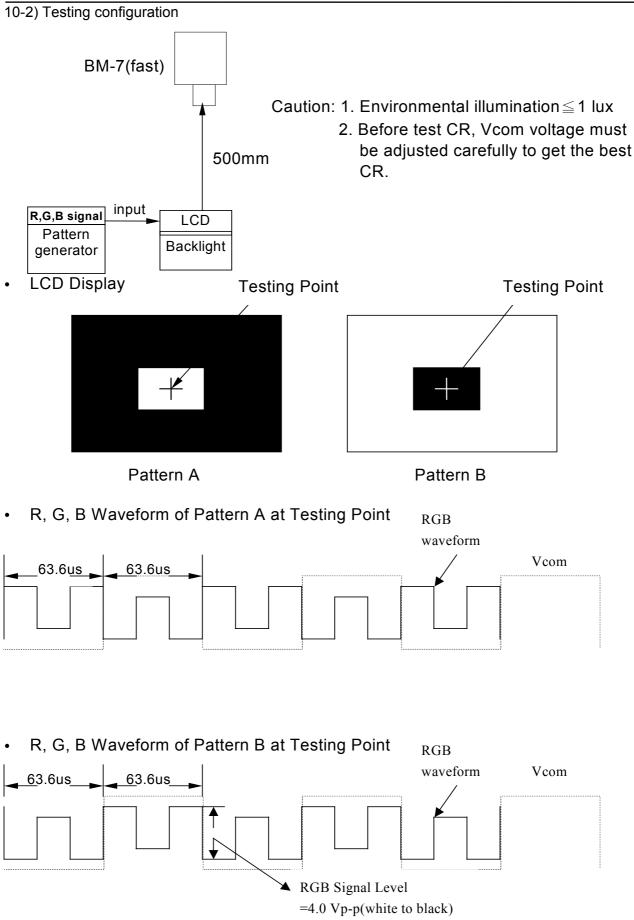
Note 10-5 : The uniformity of LCD is defined as

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).



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11. Handling Cautions

- 11-1) 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 dirt. It is recommended to peel off the laminator before use and taking care of static electricity.
- 11-2) 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.

11-3) 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.

11-4) Polarizer mark

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

12. Reliability Test

No.	Test Item	Test Condition				
1	High Temperature Storage Test	Ta = +80°C, 240 hrs				
2	Low Temperature Storage Test	Ta = -30℃, 240 hrs				
3	High Temperature Operation Test	Ta = +80°C , 240 hrs				
4	Low Temperature Operation Test	Ta = -30°C , 240 hrs (Note 12-1				
5	High Temperature & High Humidity Operation Test	Ta = +60 $^\circ$ C , 80 $^\circ$ RH , 240 hrs				
6	Thermal Cycling Test	-30°C→+25°C→+80°C , 200 Cycles				
0	(non-operating)	30 min 5min 30 min				
7	Vibration Test	Frequency : 10 ~ 55 H _z Amplitude : 1 mm				
	(non-operating)	Sweep time : 11 mins				
		Test Period : 6 Cycles for each direction of X, Y, Z				
8	Shock Test	100G , 6ms				
	(non-operating)	Direction : $\pm X$, $\pm Y$, $\pm Z$				
	(non-operating)	Cycle : 3 times				
9	Electrostatic Discharge Test	200pF , 0 Ω				
		±200V				
	(non-operating)	1 time / each terminal				

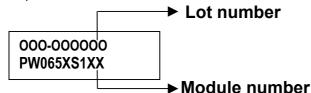
Ta: ambient temperature

Note 12-1 : PVI guarantee the module can power on under -30 $^\circ\!\mathrm{C}$

[Criteria]

Under the display quality test conditions with normal operation state, there should be no change which may affect practical display function.

- 13. Indication of Lot Number Label
 - a) Indicated contents of the label



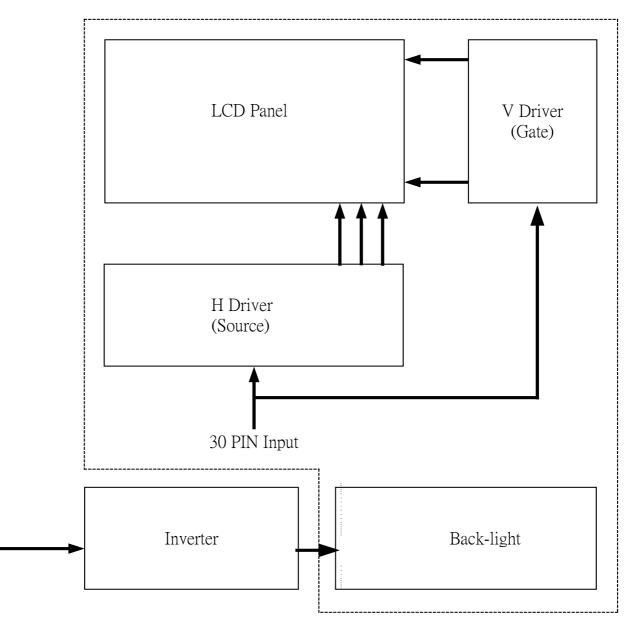
Contents of lot number : SB9—The OEM product

 5_{th} —Production year : 1999⇒9, 2000⇒A, 2001⇒B......

- $\mathbf{6}_{th}\text{--Production month}$: 1, 2, 3,....9, A, B, C
- 7_{th}~10_{th}—Serial numbers : 0001~9999



14. Block Diagram



PW065XS1

15. Packing

		ZONE	REV. DOCUUMENT NO	DESCRIPTION	DATE	REV.BY
^		LUNE	MEN. DOCCOMENT NO		DAIL	1117.DÍ
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			<u>NOTE:</u> 10'TY: 40 pcs pr	anel /carton		
			1.Q'TY: 40 pcs pc 2.Dimension: 530*2	anel/carton. 295*230mm		
				nnel/carton. 295*230mm		
			1.Q'TY: 40 pcs pc 2.Dimension: 530*2	anel/carton. 295*230mm		
			I.Q'TY: 40 pcs p 2.Dimension: 530* 3.Weight: 10 Kg	CARTON		
			I.Q'TY: 40 pcs p 2.Dimension: 530*; 3.Weight: 10 Kg 4 50-0100111 3 50-0500071	CARTON PINK Bag 190*190mn	n 40	抗靜電
			I.Q'TY: 40 pcs p: 2.Dimension: 530*: 3.Weight: 10 Kg 4 50-0100111 3 50-0500071 2	<u>CARTON</u> PINK Bag 190*190mn 6.5" Panel	n 40 40	
			I.Q'TY: 40 pcs p; 2.Dimension: 530*; 3.Weight: 10 Kg 4 50-0100111 3 50-0500071 2 1 1 50-0300561	<u>CARTON</u> PINK Bag 190*190mn 6.5" Panel	n 40 40 1	上蓋+底
WTL.SPEC. UNSPEC	CIFIED TOL'S		I.Q'TY: 40 pcs p. 2.Dimension: 530*: 3.Weight: 10 Kg 4 50-0100111 3 50-0500071 2 1 1 50-0300561 ITEM PART NO.	CARTON PINK Bag 190*190mn 5.5" Panel 瓦楞隔板緩衡材 DESCRIPTION	n 40 40 1 QTY	上蓋+ 底& REMARI
MTL.SPEC. UNSPEC. ANGLE	CIFIED TOL'S		1.Q'TY: 40 pcs p 2.Dimension: 530*: 3.Weight: 10 Kg 4 50-0100111 3 50-0500071 2 1 50-0300561 ITEM PART NO.	CARTON PINK Bag 190*190mn 5.5" Panel 瓦楞縣板緩動材 DESCRIPTION 斗技工業股份 ²	n 40 40 1 QTY	上蓋+ 底 REMARI
	NESS	(4) REMARK	1.Q'TY: 40 pcs p. 2.Dimension: 530*: 3.Weight: 10 Kg 4 50-0100111 3 50-0500071 2 1 50-0300561 ITEM PART NO. ITEM PART NO. Prime	CARTON PINK Bag 190*190mn 5.5" Panel 瓦楞隔板緩衡材 DESCRIPTION	n 40 40 1 QTY	上蓋+ 底 REMARI
ANGLE	NESS SCALE UNIT	(4) REMARK	1.Q'TY: 40 pcs p 2.Dimension: 530*: 3.Weight: 10 Kg 4 50-0100111 3 50-0500071 2 1 50-0300561 ITEM PART NO. 0 0 0 0 0 0 0 0 0 0 0 0 0	CARTON PINK Bag 190*190mn 5.5" Panel 瓦楞縣板纖飾材 DESCRIPTION 斗技工業股份 ² View Internation	n 40 40 0 0 0 1 0 0 7 9 月 7 月 7 月 7 月 7 月 7 月 7 2 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	上蓋+ 底烟 REMARP 公司 D., Lto
ANGLE ROUGH	NESS SCALE UNIT	(4) REMARK	1.Q'TY: 40 pcs p 2.Dimension: 530*: 3.Weight: 10 Kg 4 50-0100111 3 50-0500071 2 1 50-0300561 ITEM PART NO. 0 0 0 0 0 0 0 0 0 0 0 0 0	CARTON PINK Bag 190*190mn 5.5" Panel 瓦楞縣板緩動材 DESCRIPTION 斗技工業股份 ²	n 40 40 0 0 0 1 0 0 7 9 月 7 月 7 月 7 月 7 月 7 月 7 2 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1	上蓋+ 底烟 REMARP 公司 D., Lto

Revision History

Rev.	Issued Date	Revised Contents
0.1	Oct. 30, 2001	NEW
0.2	Mar. 05, 2002	Modify
		Page 17 : Power on sequence
		Page 19 : Note 10-5: The uniformity of LCD testing points defined
		Page 22 : Reliability test condition
0.3	Mar. 14, 2002	Modify
		Page 8 : Power Consumption
0.4 Apr. 12, 2002 Modify		Modify
	Î	Page 4 : Mechanical Drawing of TFT-LCD Module
0.5	Jul. 12 , 2002	Modify
		Page 6 : Pixel Arrangement and input connector pin NO.
		Page 8 : Power Consumption
		Page 10 : Signal Timing Waveforms
		Page 17 : Optical Characteristics
0.6	Aug. 21 , 2002	Modify
		Page 22 : Reliability Test (About High Temperature test)
0.7	Sep. 16, 2002	Modify
		Page 5 : Note description
		Page 7 : Recommended Driving condition for TFT-LCD panel
0.8	Sep. 26, 2002	Modify
		Page 23 : Packing
1.0	Nov. 04 , 2002	Modify
		Page 3 : Mechanical Specifications
		Page 4 : Mechanical Drawing of TFT-LCD Module (FPC length)
		Page 8 : Power Consumption
1.1	Mar. 27, 2003	Modify
		Page 8 : Power Consumption (From 79.83mW to 109.76mW Typ.)
		(From 98.54mW to 134.14mW Max.)