



Version : **1.2** 

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# **TECHNICAL SPECIFICATION**

MODEL NO.: PD104SL6

Customer's Confirmation	
Customer Name	
Date	
Ву	
	☐PVI's Confirmation
	Confirmed By
	Prepared By
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This technical specification is subject to change without notice.

Please contact with PVI for more detail information about this specification sheet.



# 1.) Application

This data sheet applies to a color TFT LCD module, PD104SL6.

PD104SL6 module applies to notebook PC, sub-note-book PC and other OA product, which require high quality flat panel display. <u>This module is not designed for aerospace, avionics, medical, F/A, transportation, car or any other products, which require extreme level of reliability.</u>

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.

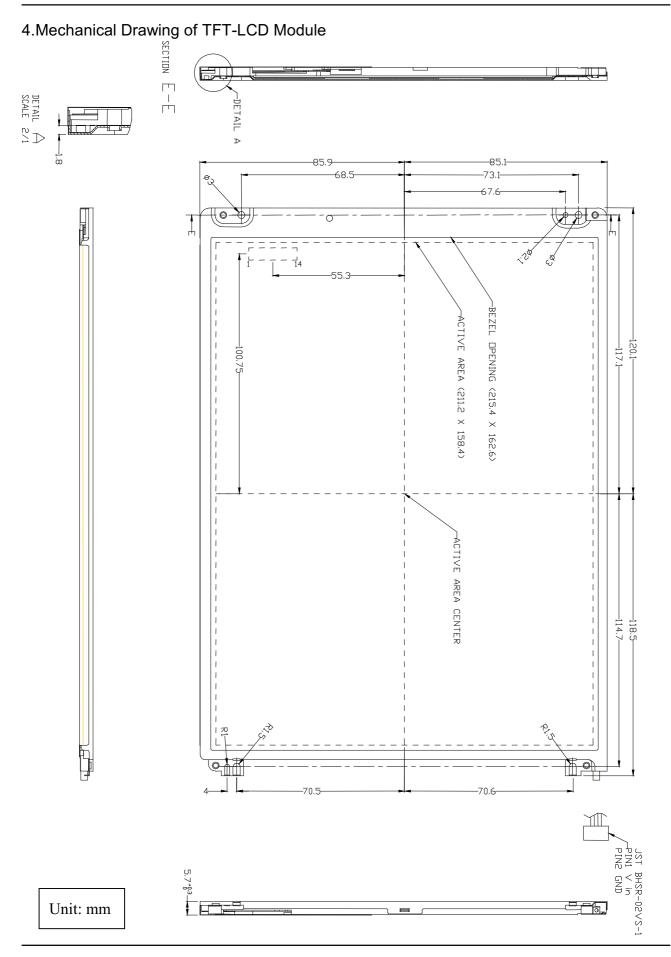
#### 2. Features

- . Amorphous silicon TFT LCD panel with back-light unit
- . Pixel in stripe configuration
- . Slim and compact, designed for O/A application
- . Display Colors : 262,144 colors
- . Optimum Viewing Direction : 12 o'clock
- . 3.3V LVDS interface standard: DS90CF364 as receiver
- . +3.3V DC supply voltage for TFT LCD panel driving
- . Backlight driving DC/AC inverter not included in this module
- . Wide Viewing Angle

# 3. Mechanical Specifications

Parameter	Specifications	Unit
Screen Size	26.4(diagonal)	cm
	10.4 (diagonal)	inch
Display Format	800× (R, G, B)× 600	dot
Display Colors	262,144	
Active Area	211.2(H)× 158.4 (V)	mm
Pixel Pitch	0.264 (H)× 0.264 (V)	mm
Pixel Configuration	Stripe	
Outline Dimension	238.6 (w)× 171.0(H)× 6.0(typ.) (D)	mm
Weight	310(typ.),320(max.)	g
Back-light	Single CCFL, side-light type	
Surface treatment	Anti-glare and hard-coating	
Display mode	Normally white	





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# 6. Absolute Maximum Ratings:

GND=0V, Ta=25°C

Parameters	Symbol	MIN.	MAX.	Unit	Remark
Supply Voltage	VDD	-0.3	+4.0	V	
Input Signals Voltage	$V_{IN}$	-0.3	VDD+0.3	V	Note 6-1
Backlight Driving Voltage	$V_L$	ı	2000	V	
Backlight Driving Frequency	F∟	0	100	KHz	
Storage Temperature	T <sub>ST</sub>	-20	+70	$^{\circ}\!\mathbb{C}$	
Operating Temperature	T <sub>OP</sub>	0	+60	$^{\circ}\!\mathbb{C}$	

Note 6-1: LVDS signal

### 7. Electrical Characteristics

7-1) Recommended Operating Conditions:

GND = 0V,  $Ta = 25^{\circ}C$ 

7 1) Recommended Operating Conditions:						
Item	Symbol	Min.	Тур.	Max.	Unit	Remark
Supply Voltage	VDD	3.0	3.3	3.6	V	
Current Dissipation	$I_{DD}$	-	350	450	mA	Note 7-1
LVDS Differential input high threshold	VTH	-	-	100	mV	Note 7-2
LVDS Differential input low threshold	VTL	-100	-	-		
Lamp Current	I <sub>FL</sub>	3.0	7.0	-	mA	
						Note 7-3
						Note 7-5
Lamp Voltage	$V_L$	500	550	600	Vrms	Note 7-3
Lamp Initial Voltage	$V_{SFL}$	ı	1200	-	Vrms	at Ta=25°C
		1000				at Ta=0°C
Lamp Driving Frequency	$F_L$	-	45	-	KHz	
Total power consumption (at I FL=7mA)		-	5.01	-	W	Note 7-4

Note 7-1: To test the current dissipation of VDD, using the "color bars" testing pattern shown as below

		0 00.0					
1	2	3	4	5	6	7	8

Idd current dissipation testing pattern

- 1. White
- 2. Yellow

- Cyan
   Green
   Magenta
- 6. Red
- 7. Blue
- 8. Black



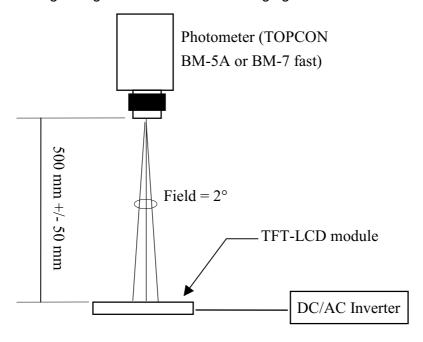
# 9.) Optical Characteristics

### 9-1) Specification:

Ta = 25°C

Parame	eter	Symbol	Condition	MIN.	TYP.	MAX.	Unit	Remarks
	Horizontal	$\theta$		± 55	± 60	-	deg	
Viewing Angle	\	$\theta$ (to 12 o'clock)	CR≥10	50	55	-	deg	Note 9-1
	Vertical	$\theta$ (to 6 o'clock)		35	40	-	deg	
Contrast Ratio		CR	Optimum direction	100	180	-	ı	Note 9-2
Response time	Rise	Tr	$\theta = 0^{\circ}$	-	15	30	ms	Note 9-4
Response time	Fall	Tf	$\varphi$ =0 $^{\circ}$	-	25	50	ms	Note 9-4
Luminance		L	$\theta$ =0°/ $\varphi$ =0°	200	220	-	cd/m²	I <sub>FL</sub> =7mA, Note 9-3
Luminance Unifo	ormity	U		55	80	-	%	Note 9-5
White Chromaticity		Х		0.266	0.316	0.366	-	
		У		0.293	0.343	0.393	-	
		Tc		6400	6600	6800	K	
Lamp Life Time				10000	-	-	hr	I <sub>FL</sub> =7mA
Cross Talk Ratio		CTK		-	-	3.5	%	Note 9-6

All the optical measurement shall be executed 30 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