

CHIMEI OPTOELECTRONICS CORP. Issued Date: 3, Dec. 2009 Model No.: V260B3– P01

TFT LCD Approval Specification

MODEL NO.: V260B3 – P01

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Note:		
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Version 2.0

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REVISION HISTORY

Version	Date	Page (New)	Section	Description
Ver 2.0	Dec.03,'09	All	All	Approval Specification was first issued.
Ver 2.0	Dec.03,'09	All		Approval Specification was first issued.



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1. GENERAL DESCRIPTION

1.1 OVERVIEW

V260B3- P01 is a 26-inch TFT LCD cell with driver ICs and 1ch-LVDS interface. This module supports 1366 x 768 WXGA format and can display 16.7M colors (6-bit+Hi-FRC). The backlight unit is not built in

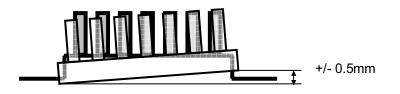
1.2 CHARACTERISTICS

CHARACTERISTICS ITEMS	SPECIFICATIONS
Screen Diagonal [in]	26.0
Pixels [lines]	1366×768
Active Area [mm]	575.769×323.712
Sub -Pixel Pitch [mm]	0.1405(H)×0.4215(V)
Pixel Arrangement	RGB vertical stripe
Weight [g]	TYP. 820
Physical Size [mm]	Refer to 2D Drawing
Display Mode	MVA, Normally Black
Contrast Ratio	(3000:1) Typ.
	(Typical value measured at CMO's module)
Glass thickness (Array/CF) [mm]	0.7 / 0.7
Viewing Angle (CR>20)	+88/-88(H), +88/-88(V) Typ.
	(Typical value measured at CMO's module)
Color Chromaticity	R=0.646, 0.330
	G=0.275,0.593
	B=0.144,0.063
· · · · · · · · · · · · · · · · · · ·	W=0.279,0.287
	*Please refer to "color chromaticity" on p.16
Cell Transparency [%]	5.0%Тур.
	(Typical value measured at CMO's module)
Polarizer (CF side)	Anti-Glare coating
	587.4(H) x 335.2(w). Hardness: 3H
Polarizer (TFT side)	587.4(H) x 335.2(w).

1.3 MECHANICAL SPECIFICATIONS

Item	Min.	Тур.	Max.	Unit	Note
Weight		g			
I/E connector mounting position	The mounting in	connector makes		(1)	
I/F connector mounting position	the screen center		(1)		

Note (1) Connector mounting position





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2. ABSOLUTE MAXIMUM RATINGS

2.1 ABSOLUTE RATINGS OF ENVIRONMENT (BASED ON CMO MODULE V260B3-L03)

Item	Symbol	Va	Unit	Note	
lteni	Symbol	Min.	Max.	Onit	NOLE
Storage Temperature	T _{ST}	-20	+60	°C	(1)
Operating Ambient Temperature	T _{OP}	0	+50	°C	(1), (2)
Shock (Non-Operating)	S _{NOP}	—	50	G	(3), (5)
Vibration (Non-Operating)	V _{NOP}	—	1.0	G	(4), (5)

Note (1) Temperature and relative humidity range is shown in the figure below.

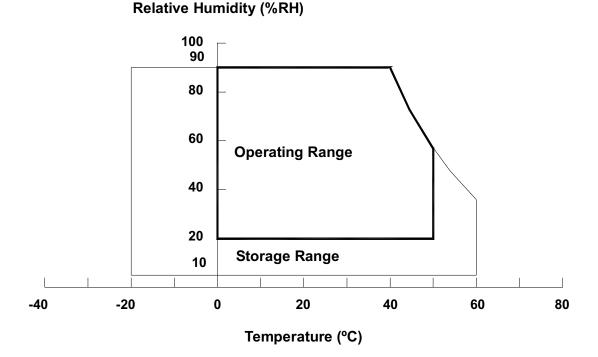
(a) 90 %RH Max. (Ta \leq 40 °C).

- (b) Wet-bulb temperature should be 39 °C Max. (Ta > 40 °C).
- (c) No condensation.
- Note (2) The maximum operating temperature is based on the test condition that the surface temperature of display area is less than or equal to 65 °C with LCD module alone in a temperature controlled chamber. Thermal management should be considered in final product design to prevent the surface temperature of display area from being over 65 °C. The range of operating temperature may degrade in case of improper thermal management in final product design.

Note (3) 11 ms, half sine wave, 1 time for $\pm X$, $\pm Y$, $\pm Z$.

Note (4) 10 ~ 500 Hz, 10 min, 1 time each X, Y, Z.

Note (5) At testing Vibration and Shock, the fixture in holding the module has to be hard and rigid enough so that the module would not be twisted or bent by the fixture.





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2.2 ABSOLUTE RATINGS OF ENVIRONMENT (OPEN CELL)

Storage Condition : With shipping package. Storage temperature range : 25 ± 5 °C Storage humidity range : 50 ± 10 %RH

Shelf life : a month

2.3 ELECTRICAL ABSOLUTE RATINGS

2.3.1 ELECTRICAL ABSOLUTE RATINGS (OPEN CELL)

Item	Symbol	Va	lue	Unit	Note
item	Symbol	Min.	Max.	Unit	Note
Power Supply Voltage	Vcc	-0.3	13.5	V	(1)
Input Signal Voltage	VIN	-0.3	3.6	V	(1)

Note (1) Permanent damage to the device may occur if maximum values are exceeded. Function operation

should be restricted to the conditions described under Normal Operating Conditions.



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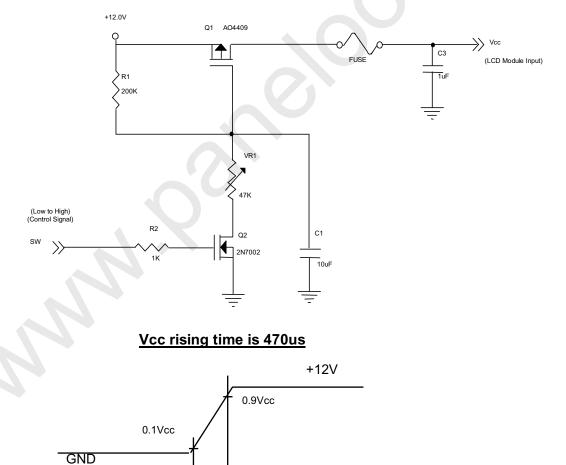
3. ELECTRICAL CHARACTERISTICS

3.1 TFT LCD MODULE

3.1 TFT L		E					Ta = 2	25 ± 2 ℃	
	Paramet	or	Symbol		Value	Unit	Note		
	Falamei	ei	Symbol	Min.	Тур.	Max.	Unit	NOLE	
Power Su	pply Voltage		V _{cc}	10.8	12.0	13.2	V	(1)	
Rush Cur	rent		I _{RUSH}	—	—	3.0	Α	(2)	
		White		—	0.40	0.50	А		
Power Su	pply Current	Black	I _{cc}	_	0.30	0.35	А	(3)	
		Vertical Stripe		_	0.4	0.50	А		
	Differential In		VLVTH	+100	_	_	mV		
	Threshold Vo	0	- LVIII						
LVDS	Differential In		V _{LVTL}	_	_	-100	mV		
Interface	Threshold Vo	v v						(4)	
	Common Inpu	ut Voltage	V _{LVC}	1.0	1.2	1.4	V		
	Differential in	out voltage	V _{ID}	200	—	600	mV		
	Terminating F	Resistor	R _T	—	100	—	ohm		
CMOS	Input High Th	reshold Voltage	V _{IH}	2.7	—	3.3	V		
interface	Input Low Th	eshold Voltage	VIL	0	-	0.7	V		

Note (1) The module should be always operated within above ranges.

Note (2) Measurement Conditions:



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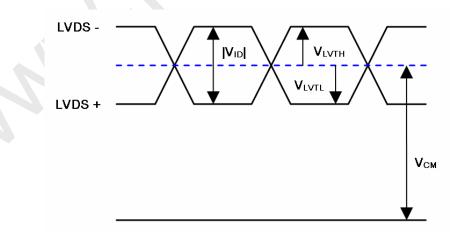


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Note (3) The specified power supply current is under the conditions at Vcc = 12 V, Ta = 25 ± 2 °C, f_v = 60 Hz, whereas a power dissipation check pattern below is displayed.

a. White Pattern b. Black Pattern Active Area Active Area c. Vertical Stripe Pattern G В R GΒ В G В R R G В R G В R G G Active Area

Note (4) The LVDS input characteristics are as follows:





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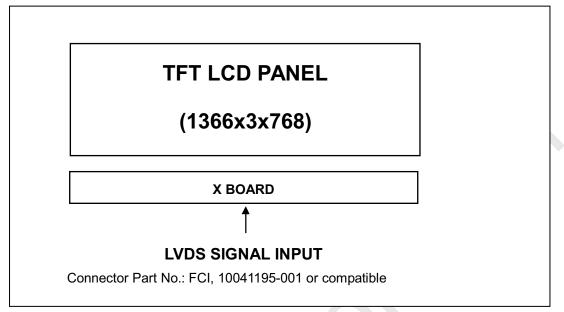
4. BLOCK DIAGRAM

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4.1 TFT LCD MODULE

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5. INPUT TERMINAL PIN ASSIGNMENT

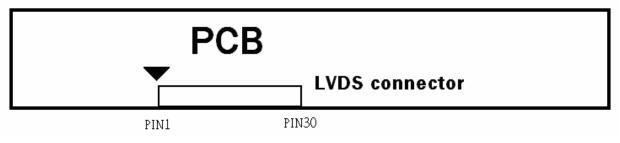
5.1 TFT LCD MODULE

CN1 Connector Pin Assignment

Pin No.	Symbol	Description	Note
1	VCC	Power supply: +12V	
2	VCC	Power supply: +12V	
3	VCC	Power supply: +12V	
4	VCC	Power supply: +12V	
5	GND	Ground	
6	GND	Ground	
7	GND	Ground	
8	GND	Ground	
9	SELLVDS	Select LVDS data format	(2),(5)
10	ODSEL	Overdrive Lookup Table Selection	(3),(5)
11	GND	Ground	
12	RX0-	Negative transmission data of pixel 0	
13	RX0+	Positive transmission data of pixel 0	
14	GND	Ground	
15	RX1-	Negative transmission data of pixel 1	
16	RX1+	Positive transmission data of pixel 1	
17	GND	Ground	
18	RX2-	Negative transmission data of pixel 2	
19	RX2+	Positive transmission data of pixel 2	
20	GND	Ground	
21	RXCLK-	Negative of clock	
22	RXCLK+	Positive of clock	
23	GND	Ground	
24	RX3-	Negative transmission data of pixel 3	
25	RX3+	Positive transmission data of pixel 3	
26	GND	Ground	
27	NC	No connection	(4)
28	NC	No connection	(4)
29	GND	Ground	
30	GND	Ground	

Note (1) Connector Part No.: FCI, 10041195-001 or compatible

LVDS connector pin order defined as follows



Note (2) Low = Open or connect to GND: VESA Format, High = Connect to +3.3V: JEIDA Format.

Please refer to 5.5 LVDS INTERFACE

Note (3) Overdrive lookup table selection. The Overdrive lookup table should be selected in accordance to the frame rate to optimize image quality.

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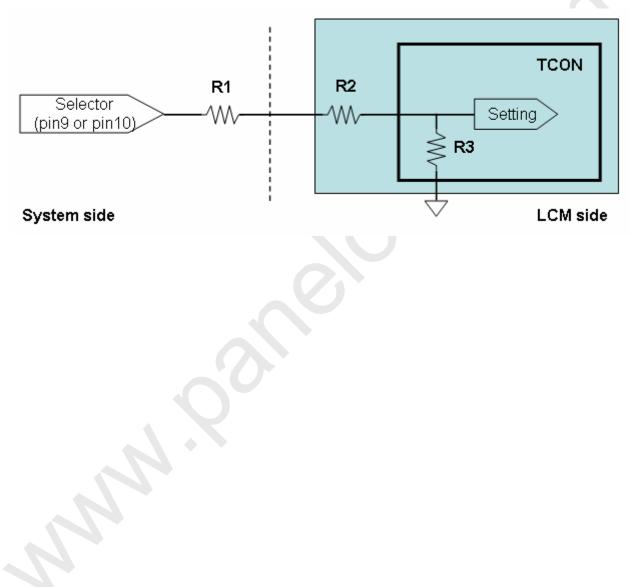
Low = Open or connect to GND	High = Connect to $+3.3V$

ODSEL	Note
L or Open	Lookup table was optimized for 60 Hz frame rate.
Н	Lookup table was optimized for 50 Hz frame rate.

Note (4) Reserved for internal use. Left it open.

Note (5) LVDS signal pin connected to the LCM side has the following diagram.

R1 in the system side should be less than 1K Ohm. (R1 < 1K Ohm)



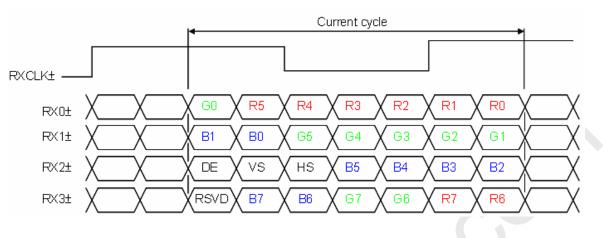


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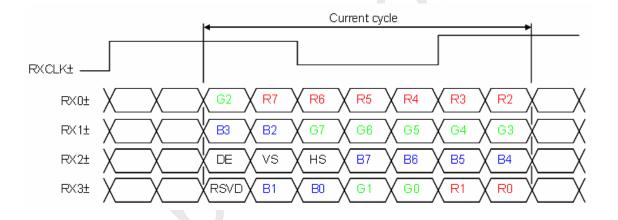
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5.2 LVDS INTERFACE

VESA LVDS format : (SELLVDS pin=L or open)



JEDIA LVDS format : (SELLVDS pin=H)



R0~R7: Pixel R Data (7; MSB, 0; LSB)

G0~G7: Pixel G Data (7; MSB, 0; LSB)

B0~B7: Pixel B Data (7; MSB, 0; LSB)

DE: Data enable signal

Notes(1) RSVD(reserved)pins on the transmitter shall be "H" or("L" or OPEN)



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5.3 COLOR DATA INPUT ASSIGNMENT

The brightness of each primary color (red, green and blue) is based on the 8-bit gray scale data input for the color. The higher the binary input, the brighter the color. The table below provides the assignment of color versus data input.

												Da	ata	Sigr	nal										
	Color				Re	ed							G	reer	n I						Blu	Je			
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	B6	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	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
	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	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
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
	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
	Red(0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(1)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray	Red(2)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scale	:	:	:	:	:	:	:	:	:	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	:	:	:	:	:	:	:	:	÷	÷	\cdot	•	:	:	:	:	:	:	:	:	:	:	:	:	:
	Red(253)	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red	Red(254)	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(255)	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(0) / Dark	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green(1)	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	Green(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Scale	:	:	:	·	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Green	Green(253)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0
Green	Green(254)	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(255)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0
	Blue(0) / Dark	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(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Gray	Blue(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Scale	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Blue	Blue(253)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1
Dide	Blue(254)	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(255)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1

Note (1) 0: Low Level Voltage, 1: High Level Voltage



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6. INTERFACE TIMING

6.1 INPUT SIGNAL TIMING SPECIFICATIONS

Signal	Item	Symbol	Min.	Тур.	Max.	Unit	Note	
	Frequency	F _{clkin} (=1/TC)	60	76	82	MHz		
LVDS	Input cycle to cycle jitter	T _{rcl}		_	200	ps	(3)	
Receiver Clock	Spread spectrum modulation range	Fclkin_mod	F _{clkin} -2%	_	F _{clkin} +2%	MHz		
	Spread spectrum modulation frequency	F _{SSM}			200	KHz	(4)	
LVDS	Setup Time	Tlvsu	600		-	ps		
Receiver Data	Hold Time	Tlvhd	600			ps	(5)	
	Frame Rate	F _{r5}	47	50	53	Hz	(6)	
Vertical	Traine Rate	F _{r6}	57	60	63	Hz	(0)	
Active	Total	Τv	778	806	888	Th	Tv=Tvd+Tvb	
Display Term	Display	Tvd	768	768	768	Th	—	
	Blank	Tvb	10	38	120	Th	_	
Horizontal Active	Total	Th	1442	1560	1936	Тс	Th=Thd+Thb	
	Display	Thd	1366	1366	1366	Тс	_	
Display Term	Blank	Thb	76	194	570	Тс	—	

Note (1) Please make sure the range of pixel clock has follow the below equation :

Fclkin(max) \geq Fr6 imes Tv imes Th

 $Fr5 \times Tv \times Th \ge Fclkin(min)$

Note (2) This module is operated in DE only mode and please follow the input signal timing diagram below :

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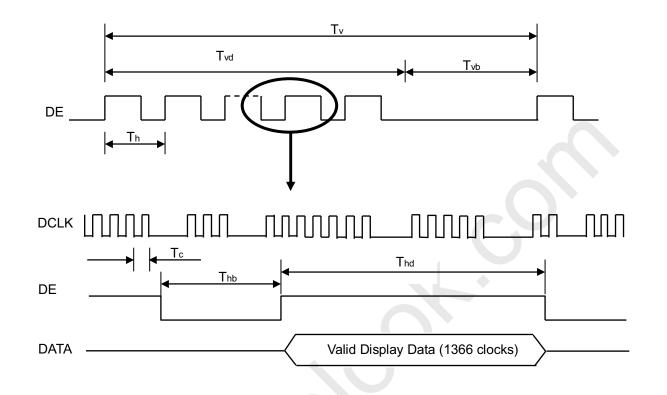
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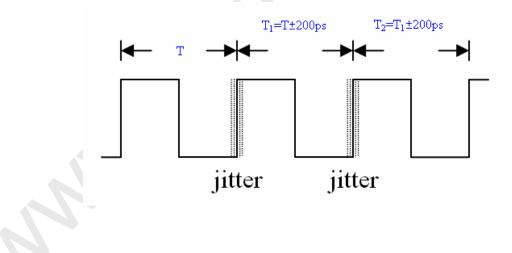


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INPUT SIGNAL TIMING DIAGRAM



Note (3) The input clock cycle-to-cycle jitter is defined as below figures. Trcl = I $T_1 - TI$

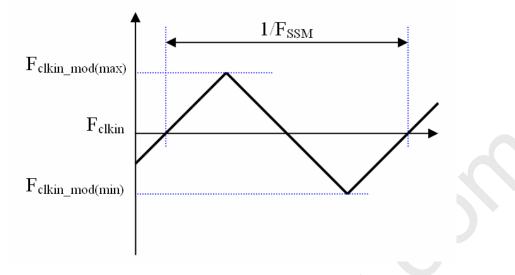




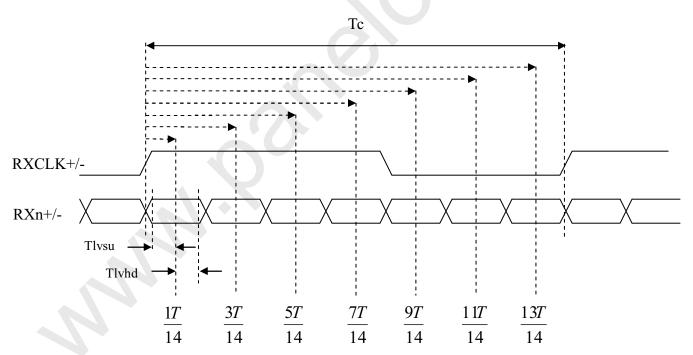
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Note (4) The SSCG (Spread spectrum clock generator) is defined as below figures.



Note (5) The LVDS timing diagram and setup/hold time is defined and showing as the following figures.



LVDS RECEIVER INTERFACE TIMING DIAGRAM

Note (6) : (ODSEL) = H/L or open for 50/60Hz frame rate. Please refer to 5.1 for detail information



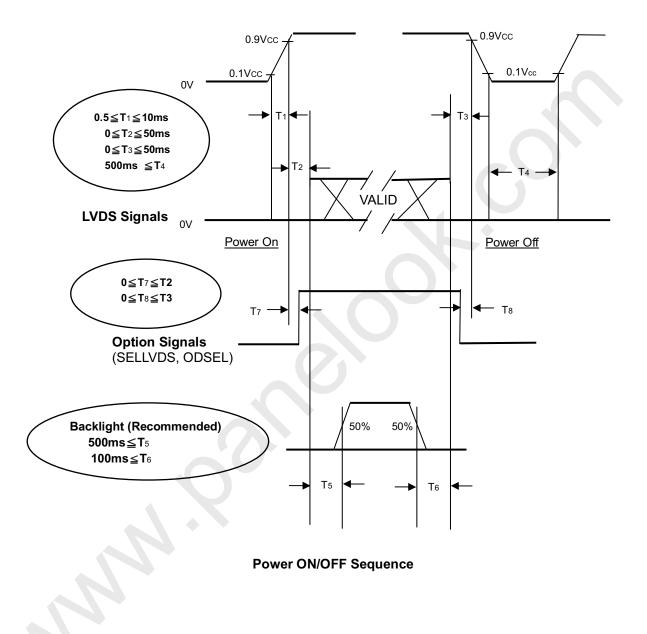
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6.2 POWER ON/OFF SEQUENCE

(Ta = 25 ± 2 °C)

To prevent a latch-up or DC operation of LCD module, the power on/off sequence should be as the diagram below.





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7. OPTICAL CHARACTERISTICS

7.1 TEST CONDITIONS

Item	Symbol	Value	Unit	
Ambient Temperature	Та	25±2	Do	
Ambient Humidity	На	50±10	%RH	
Supply Voltage	V _{CC}	12.0	V	
Input Signal	According to typical value in "3. ELECTRICAL CHARACTERISTICS"			
Lamp Current	۱	9.0 ± 0.5	mA	
Oscillating Frequency (Inverter)	Fw	58 ± 3	KHz	
Vertical Frame Rate	Fr	60	Hz	

7.2 OPTICAL SPECIFICATIONS

The relative measurement methods of optical characteristics are shown as below. The following items should be measured under the test conditions described in 7.1 and stable environment shown in Note (5).

Item		Symbol	Condition	Min.	Тур.	Max.	Unit	Note
	Red	Rcx			0.646		-	
	Reu	Rcy			0.330		-	
	Green	Gcx	θ _x =0°, θ _Y =0°		0.271		-	
Color	Green	Gcy	Viewing Angle at Normal		0.593		-	(0) (5)
Chromaticity		Bcx	Direction	-	0.144	-	-	(0),(5)
	Blue	Всу	Standard light source "C"		0.063		-	
	White	Wcx			0.279		-	
	VVIILE	Wcy			0.287		-	
Center Transmittance		Т%	$\theta_x = 0^\circ, \ \theta_Y = 0^\circ$	-	5.0	-	%	(1),(7)
Contrast Ratio		CR	with CMO module		3000	-		(1),(3)
Response Time		Gray to	$\theta_x = 0^\circ, \ \theta_Y = 0^\circ$	-	8.5		me	(4)
		gray	with CMO Module@60Hz	-	0.0		ms	(4)
White Variation		δW	$\theta_x=0^\circ, \ \theta_Y=0^\circ$	-	-	1.3	-	(1) (6)
		000	with CMO module				-	(1),(6)
Viewing		θ_x +			88			
		θ_{x} -	CR≥20		88		Deg.	(1),(2)
Angle	Vertical	θ_{Y} +	With CMO module		88		Dey.	(1),(2)
	vertical	θ _Y -			88			





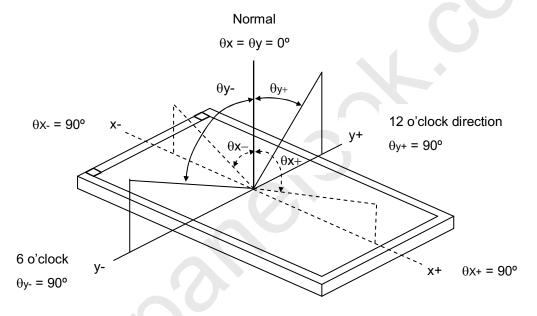
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- Note (0) Light source is the standard light source "C" which is defined by CIE and driving voltage are based on suitable gamma voltages. The calculating method is as following :
 - Measure Module's and BLU's spectrum. White is without signal input and R,G,B are with signal input. BLU(for V260B3-L01) is supplied by CMO.
 - 2. Calculate cell's spectrum.
 - 3. Calculate cell's chromaticity by using the spectrum of standard light source "C".
- Note (1) Light source is the BLU which is supplied by CMO and driving voltage are based on

suitable gamma voltages.

Note (2) Definition of Viewing Angle (θx , θy):

Viewing angles are measured by Conoscope Cono-80



Note (3) Definition of Contrast Ratio (CR):

The contrast ratio can be calculated by the following expression.

Contrast Ratio (CR) = L255 / L0

L255: Luminance of gray level 255

L 0: Luminance of gray level 0

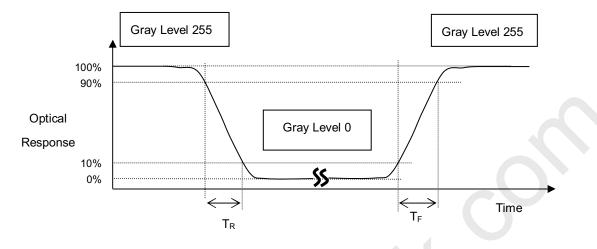
CR = CR (5), where CR (X) is corresponding to the Contrast Ratio of the point X at the figure in Note (6).



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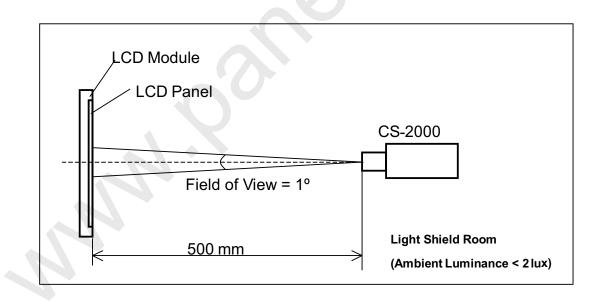
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Note (4) Definition of Response Time (T_R, T_F) :



Note (5) Measurement Setup:

The LCD module should be stabilized at given temperature for 1 hour to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 1 hour in a windless room.





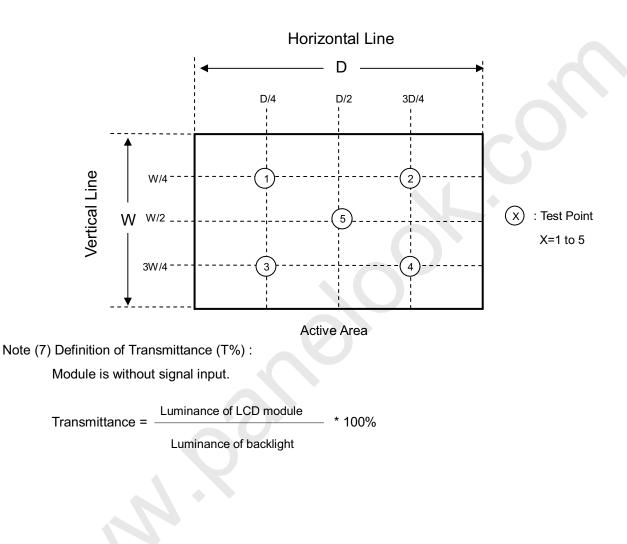
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Note (6) Definition of White Variation (δW):

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Measure the luminance of gray level 255 at 5 points

δW = Maximum [L (1), L (2), L (3), L (4), L (5)] / Minimum [L (1), L (2), L (3), L (4), L (5)]





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8. DEFINITION OF LABELS

8.1 OPEN CELL LABEL

The barcode nameplate is pasted on each open cell as illustration for CMO internal control.





8.2 CARTON LABEL

The barcode nameplate is pasted on each box as illustration, and its definitions are as following explanation

P.O. NO
Parts ID
Carton ID Quantities XXXXXXXXXXXXXX
Made in Taiwan
P.O. NO
Parts ID
Carton IDQuantities XXXXXXXXXXXXXXX
Made in China

- (a) Model Name: V260B3– P01
- (b) Carton ID: CMO internal control
- (c) Quantities: 21



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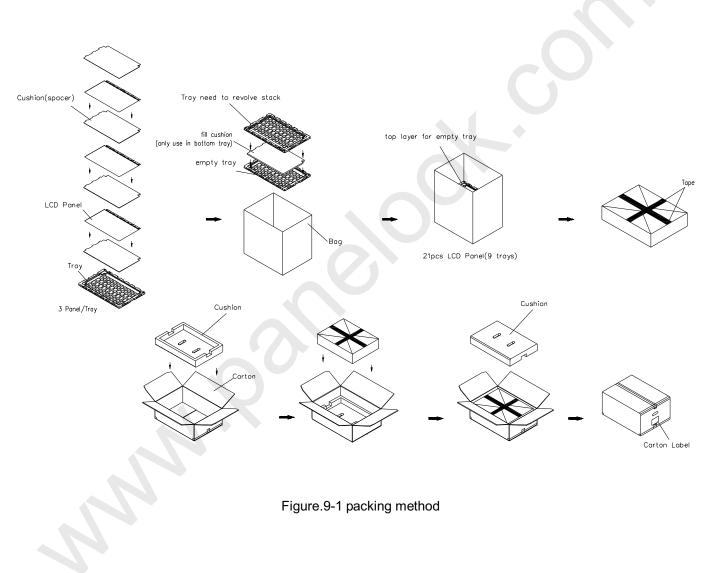
9. PACKAGING

9.1 PACKING SPECIFICATIONS

- (1) 21PCS LCD TV Panels / 1 Box
- (2) Box dimensions : 812 (L) X 572 (W) X 277 (H)
- (3) Weight : approximately 27.5 Kg

9.2 PACKING METHOD

Figures 9-1 and 9-2 are the packing method



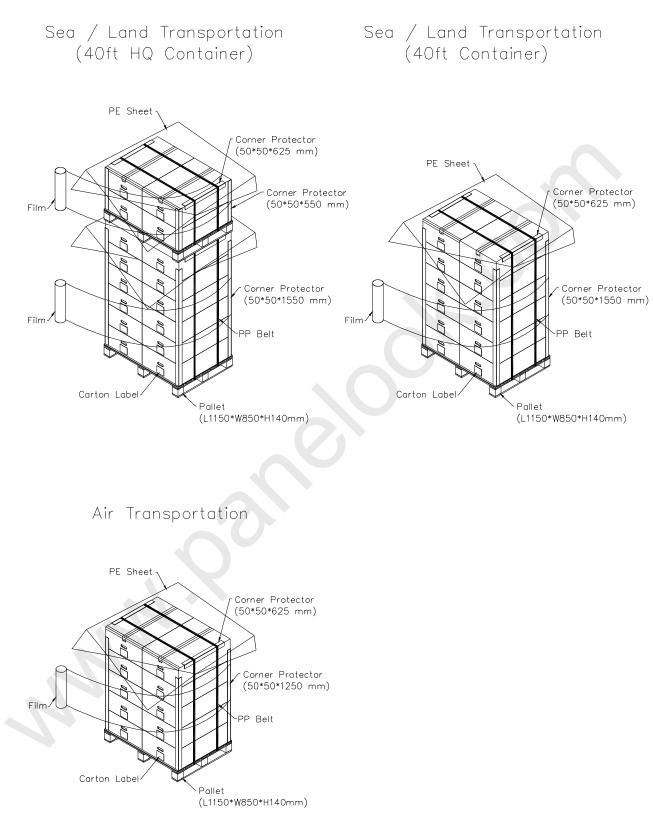
www.panelook.com

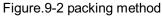
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10. PRECAUTIONS

10.1 ASSEMBLY AND HANDLING PRECAUTIONS

- (1) Do not apply rough force such as bending or twisting to the product during assembly.
- (2) To assemble backlight or install module into user's system can be only in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.
- (3) It's not permitted to have pressure or impulse on the module because the LCD panel will be damaged.
- (4) Always follow the correct power sequence when the product is connecting and operating. This can prevent damage to the CMOS LSI chips during latch-up.
- (5) Do not pull the I/F connector in or out while the module is operating.
- (6) Use a soft dry cloth without chemicals for cleaning, because the surface of polarizer is very soft and easily scratched.
- (7) It is dangerous that moisture come into or contacted the product, because moisture may damage the product when it is operating.
- (8) High temperature or humidity may reduce the performance of module. Please store this product within the specified storage conditions.
- (9) When ambient temperature is lower than 10°C may reduce the display quality. For example, the response time will become slowly.

10.2 SAFETY PRECAUTIONS

- (1) If the liquid crystal material leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, skin or clothes, it has to be washed away thoroughly with soap.
- (2) After the product's end of life, it is not harmful in case of normal operation and storage.

OPTOE

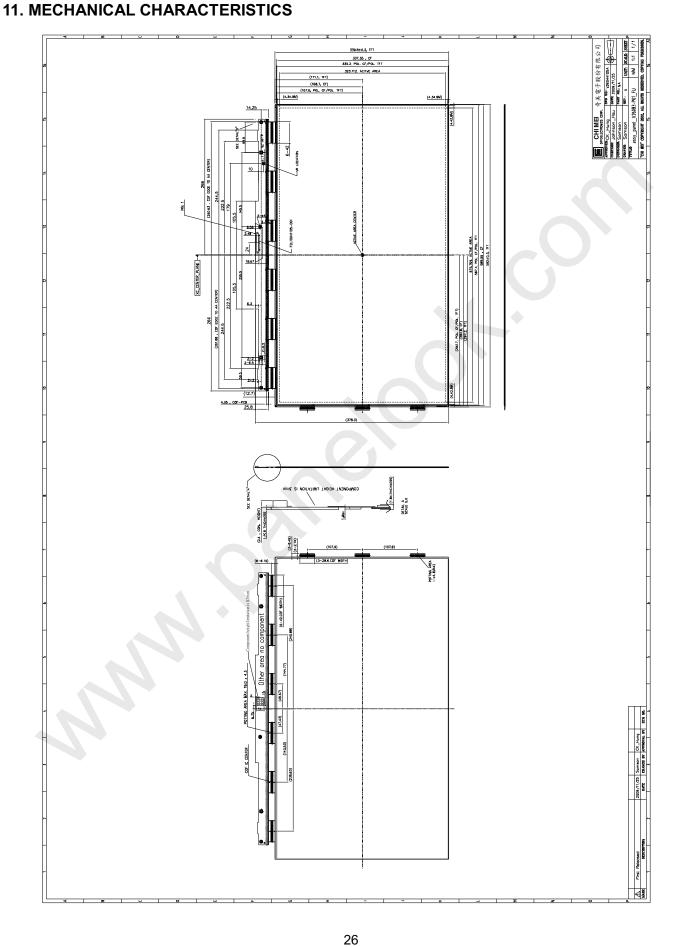
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