



Issued Date: Feb. 9th, 2009 Model No.: V216B1-P02

Approval

TFT LCD Approval Specification

MODEL NO.: V216B1 – P02

Customer:	
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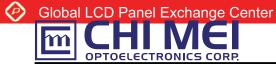


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REVISION HISTORY

Version	Date	Page (New)	Section	Description	
Ver 2.0	Feb. 9th, '09	All	All	Approval Specification was first issued.	
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1. GENERAL DESCRIPTION

1.1 OVERVIEW

V216B1- P02 is a 21.6-inch wide TFT LCD cell with driver ICs and a 30-pin 1-ch LVDS interface. The product supports 1366 x 768 (16.9 wide screen) mode and displays up to 16.7 (6-bit+Hi-FRC colors) millions colors. The backlight unit is not built in.

1.2 CHARACTERISTICS

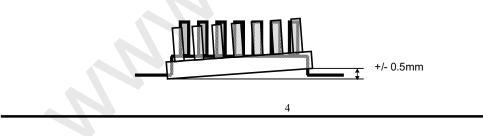
CHARACTERISTICS ITEMS	SPECIFICATIONS
Screen Diagonal [in]	21.6
Pixels [lines]	1366 x R.G.B. x 768
Active Area [mm]	477.417 (H) x 268.416 (V) (21.6" diagonal)
Sub -Pixel Pitch [mm]	0.1165 (H) x 0.3495 (V)
Pixel Arrangement	RGB vertical stripe
Weight [g]	TYP. 606
Physical Size [mm]	488.917(W) x 279.916(H) x 2.0(D) Typ.
Display Mode	TN / Normally White
Contrast Ratio	800:1 Typ. (Typical value measured at CMO's module: V216B1-L01)
Glass thickness (Array/CF) [mm]	0.7 / 0.7
Viewing Angle (CR>10)	+85/-85(H),+80/-80(V) Typ. (Typical value measured at CMO's module: V216B1-L01)
Color Chromaticity	R=(0.644, 0.331) G=(0.273,0.588) B=(0.151,0.061) W=(0.285,0.293) *Please refer to "color chromaticity" on p.15 (Typical value measured at CMO's module: V216B1-L01)
Cell Transparency [%]	7.38%Typ.s (Typical value measured at CMO's module: V216B1-L01)
Polarizer (CF side)	Anti-glare coating, 484.4(H) x 275.8(w). Hardness: 3H
Polarizer (TFT side)	484.4(H) x 275.8(w)

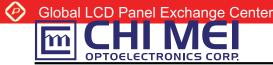
1.3 MECHANICAL SPECIFICATIONS

Item	Min.	Тур.	Max.	Unit	Note
Weight		595		g	
	The mounting in the screen center				(2)

Note (1) Please refer to the attached drawings for more information of front and back outline dimensions.

(2) Connector mounting position





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2. ABSOLUTE MAXIMUM RATINGS

2.1 ABSOLUTE RATINGS OF ENVIRONMENT (BASED ON CMO MODULE V216B1-L01)

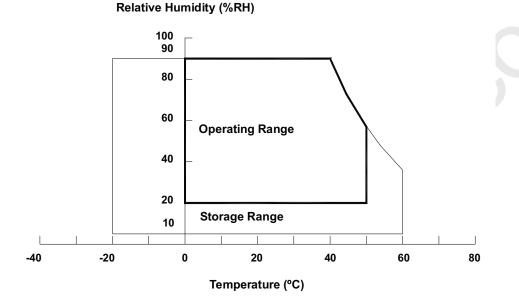
ltem	Symbol	Va	Unit	Note	
item	Symbol	Min.	Max.	Unit	NOLE
Storage Temperature	T _{ST}	-20	+60	°C	(1), (3)
Operating Ambient Temperature	T _{OP}	0	+50	°C	(1), (2), (3)
Altitude Operating	A _{OP}	0	5000	М	(3)
Altitude Storage	A _{ST}	0	12000	М	(3)

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 your 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 your product design.
- Note (3) The rating of environment is base on LCD module. Leave LCD cell alone, this environment condition can't be guaranteed. Except LCD cell, the customer has to consider the ability of other parts of LCD module and LCD module process.

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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	Value			Note
liem	Symbol	Min.	Max.	Unit	Note
Power Supply Voltage	Vcc	-0.3	6.0	V	
Input Signal Voltage	Vin	-0.3	3.6	V	

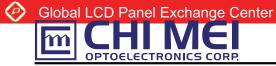
3. ELECTRICAL CHARACTERISTICS

3.1 TFT L	CD OPEN C	ELL					Та	= 25 ± 2 °C
Parameter			Symbol	Value			Unit	Note
	Falamet	.01	Symbol	Min.	Тур.	Max.	Unit	Note
Power Su	pply Voltage		V _{cc}	4.5	5.0	5.5	V	(1)
Power Su	pply Ripple Vo	ltage	V _{RP}	-	-	150	mV	
Rush Cur	rent		I _{RUSH}	-	-	3.0	Α	(2)
		White		-	0.50	-	A	
Power Su	pply Current	Black	Icc	-	0.85	0.95	A	(3)
		Vertical Stripe		-	0.75	-	A	
	Differential In	put High	V _{LVTH}	+100	_		mV	
LVDS	Threshold Vo	ltage	▼ LVTH	+100	-	-	IIIV	
Interface	Differential In		VLVTL	_	_	-100	mV	
intenace	Threshold Vo	ltage	V LVTL	-	_	-100	IIIV	
	Common Inpu	ut Voltage	VLVC	1.125	1.25	1.375	V	
	Terminating R	Resistor	R _T	-	100	- /	ohm	
CMOS	Input High Threshold Voltage		VIH	2.7	-	3.3	V	
interface	Input Low Thr	eshold Voltage	VL	0	-	0.7	V	

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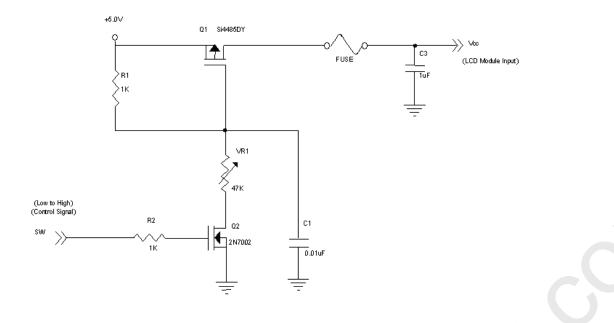
Note (1) The module should be always operated within above ranges.

Note (2) Measurement Conditions:

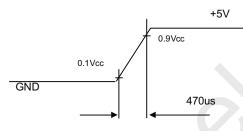


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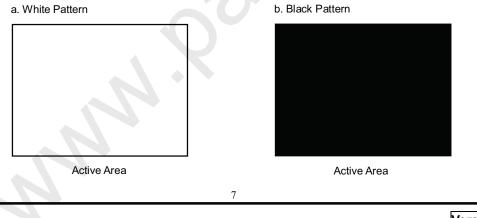
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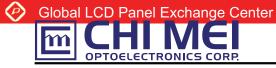


Vcc rising time is 470us



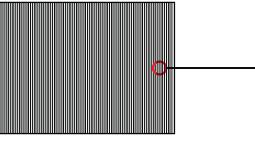
Note (3) The specified power supply current is under the conditions at Vcc = 5 V, Ta = 25 ± 2 °C, $f_v = 60$ Hz, whereas a power dissipation check pattern below is displayed.



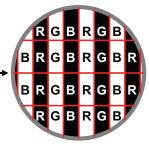


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c. Vertical Stripe Pattern

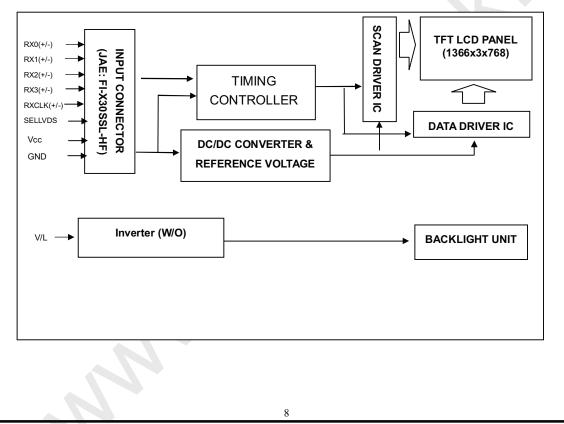


Active Area



4. BLOCK DIAGRAM

4.1 TFT LCD OPEN CELL



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5. INPUT TERMINAL PIN ASSIGNMENT

5.1 TFT LCD MODULE

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

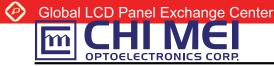
Note (1) Connector part no.: JAE: FI-X30SSL-HF (LCDS) or compatible

Note (2) Reserved for CMO internal use, please leave it open

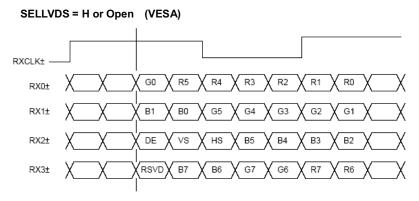
Note (3) Low: JEIDA data format. High/open: VESA data format.

Note (4) Logic level voltage definition: Low: 0V, High: 3.3V

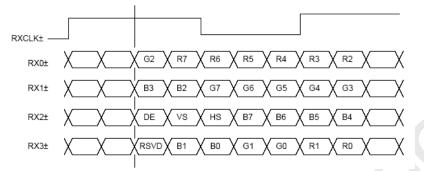
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5.2 LVDS DATA MAPPING TABLE



SELLVDS = L (JEIDA)



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"

删除: Note (2) Specified values are for lamp (Refer to 3.2 for further information). .

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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		Sigr				1							
	Color				Re	ed	1						G	reer	۱						Blı	Je			
			R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	B6	B5	B4	B3	B2		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
Crow	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
Gray Scale	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	•	:	:	:	•	:
Red	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
Reu	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
C	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
Gray	:	:	:	:	:	:	:	:	:	:	:	:	:	:		•	:	:	:	:	:	:	:	:	:
Scale	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	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
0	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
Gray	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Scale	:	:	:	:	:	:	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	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
Blue	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

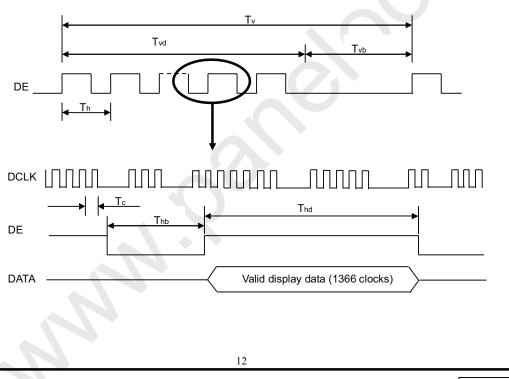
The input signal timing specifications are shown as the following table and timing diagram.

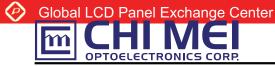
Signal	Item	Symbol	Min.	Тур.	Max.	Unit	Note
	Frequency	1/Tc	60	76	82	MHz	
LVDS Receiver Clock	Input cycle to cycle Jitter	Trcl	-	-	200	ps	
LVDS Receiver Data	Setup Time	Tlvsu	600	-	-	ps	
LVDS Receiver Data	Hold Time	Tlvhd	600	-	-	ps	
		Fr	47	50	53	Hz	
	Frame Rate		57	60	63	112	
Vertical Active Display Term	Total	Τv	778	806	888	Th	Tv=Tvd+Tvb
	Display	Tvd	768	768	768	Th	-
	Blank	Tvb	10	38	120	Th	-
	Total	Th	1442	1560	1936	Tc	Th=Thd+Thb
Horizontal Active Display Term	Display	Thd	1366	1366	1366	Tc	-
	Blank	Thb	76	194	570	Tc	-

Note (1) Since this module is operated in DE only mode, Hsync and Vsync input signals should be set to low logic level. Otherwise, this module would operate abnormally.

(2) Please refer to 5.1 for detail information.

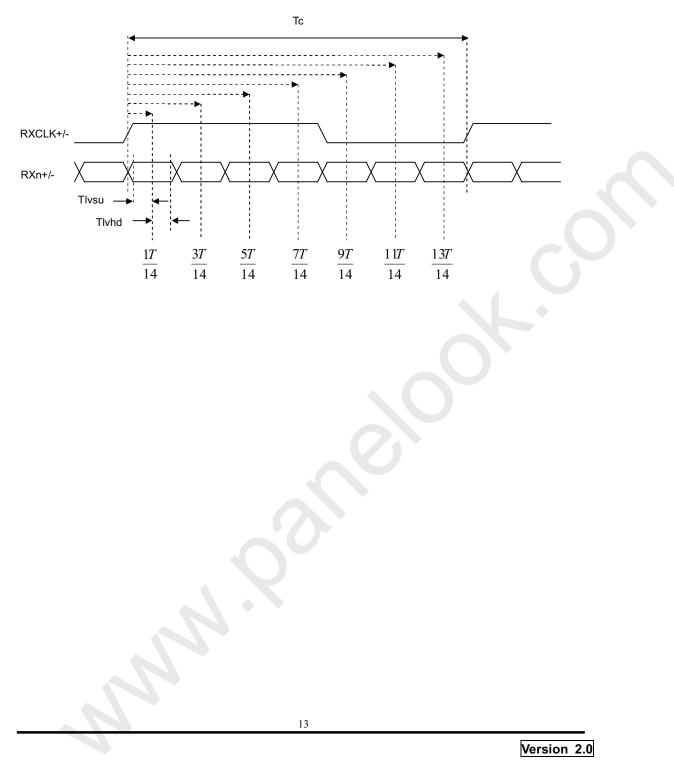






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LVDS RECEIVER INTERFACE TIMING DIAGRAM

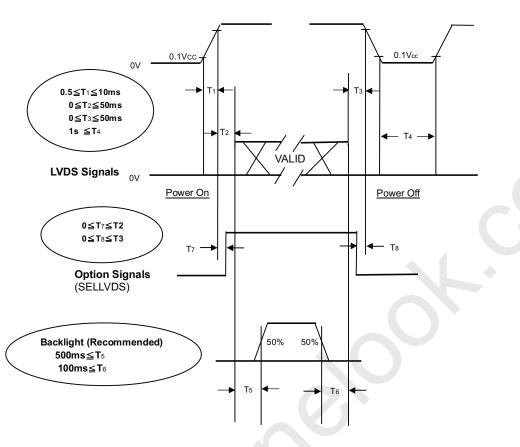




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6.2 POWER ON/OFF SEQUENCE

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



Power ON/OFF Sequence

- Note (1) The supply voltage of the external system for the module input should follow the definition of Vcc.
- Note (2) Apply the lamp voltage within the LCD operation range. When the backlight turns on before the LCD operation or the LCD turns off before the backlight turns off, the display may momentarily become abnormal screen.
- Note (3) In case of Vcc is in off level, please keep the level of input signals on the low or high impedance. If T2<0,that maybe cause electrical overstress failure.
- Note (4) T4 should be measured after the module has been fully discharged between power off and on period.
- Note (5) Interface signal shall not be kept at high impedance when the power is on.

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7. OPTICAL CHARACTERISTICS

7.1 TEST CONDITIONS

Item	Symbol	Value	Unit			
Ambient Temperature	Та	25±2	oC			
Ambient Humidity	На	50±10	%RH			
Supply Voltage	Vcc	5.0	V			
Input Signal	According to typical value in "3. ELECTRICAL CHARACTERIST					
Inverter Current	l.	7.0	mA			
Inverter Driving Frequency	FL	50	KHz			
Dimming Frequency	F _B	160 (type)	Hz			
Minimum Duty Ratio	D _{MIN}	20	%			
Maximum Duty Ratio	D _{MAX}	100	%			
Inverter	Ampower (27-D024817)					

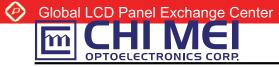
7.2 OPTICAL SPECIFICATIONS

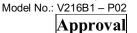
The relative measurement methods of optical characteristics are shown as below. The following items should

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	
Contrast Ratio)	CR		600	800		-	(2)	
Doononoo Tim		T _R			1.3	2.2	ms	(2)	
Response Time		T _F			3.7	5.8	1115	(3)	
Center Lumina	ance of White	Lc		300	400			(4)	
White Variation	White Variation					1.3) -	(7)	
Cross Talk		СТ	θ _x =0°, θ _Y =0°			4	%	(5)	
	Red	Rx	Viewing Angle at		0.644	Typ. +0.03	-	(0),(6)	
	Red	Ry	Normal Direction	Тур. -0.03	0.331		-		
	Green Blue White	Gx	With CMO's		0.273		-		
		Gy	module: V216B1-L01		0.588		-		
Color		Bx			0.151		-		
Chromaticity		Ву			0.061		-		
		Wx			0.285		-		
		Wy			0.293		-		
	Color Gamut	CG	\mathbf{O}	68	72		%	NTSC Ratio	
Viewing	l la desental	θ _x +	CR>10	75	85				
	Horizontal	θ _x -	With CMO's	75	85		Dee	(1)	
Angle	Vortical	θ _Y +	module:	70	80		Deg.	(1)	
	Vertical	θγ-	V216B1-L01	70	80				

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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 :

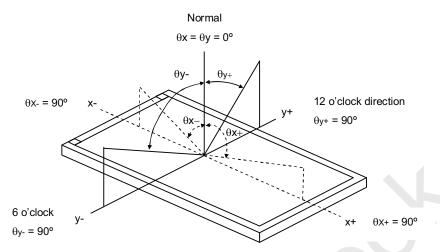
1. Measure Module's and BLU's spectrum. White is without signal input and R,G,B are with signal input.

- BLU (for V216B1-L01) is supplied by CMO.
- 2. Calculate cell's spectrum.

Calculate cell's chromaticity by using the spectrum of standard light source "C".

Note (1) Definition of Viewing Angle (θx , θy):

Viewing angles are measured by EZ-Contrast 160R (Eldim)



Note (2) Definition of Contrast Ratio (CR):

The contrast ratio can be calculated by the following expression.

Contrast Ratio (CR) = L255 / L0

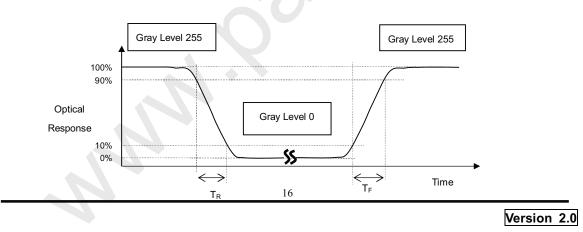
L255: Luminance of gray level 255

L 0: Luminance of gray level 0

CR = CR (5),

CR (X) is corresponding to the Contrast Ratio of the point X at the figure in Note (7).

Note (3) Definition of Response Time (T_R, T_F) :



Note (4) Definition of Luminance of White (L_C):

Measure the luminance of gray level 255 at center point and 5 points

 $L_{C} = L(5)$

L (X) is corresponding to the luminance of the point X at the figure in Note (7).

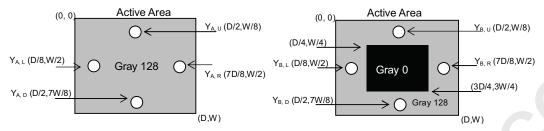
Note (5) Definition of Cross Talk (CT):

$$CT = |Y_B - Y_A| / Y_A \times 100$$
 (%)

Where:

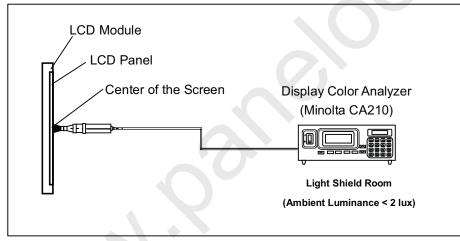
 Y_A = Luminance of measured location without gray level 0 pattern (cd/m²)

 Y_B = Luminance of measured location with gray level 0 pattern (cd/m²)



Note (6) 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.

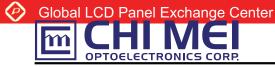


Note (7) Definition of White Variation (δW):

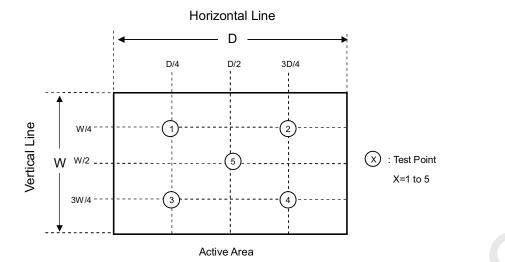
Measure the luminance of gray level 255 at 5 points

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

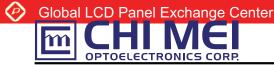
17



 \oslash



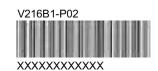
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8. DEFINITION OF LABELS

8.1 OPEN CELL LABEL

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



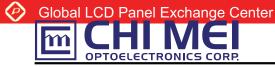
8.2 CARTON LABEL

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



- (a) Model Name: V216B1-P04
- (b) Carton ID: CMO internal control
- (c) Quantities: 27
- (d) Production Location:XXXX, for example:TAIWAN or CHINA .

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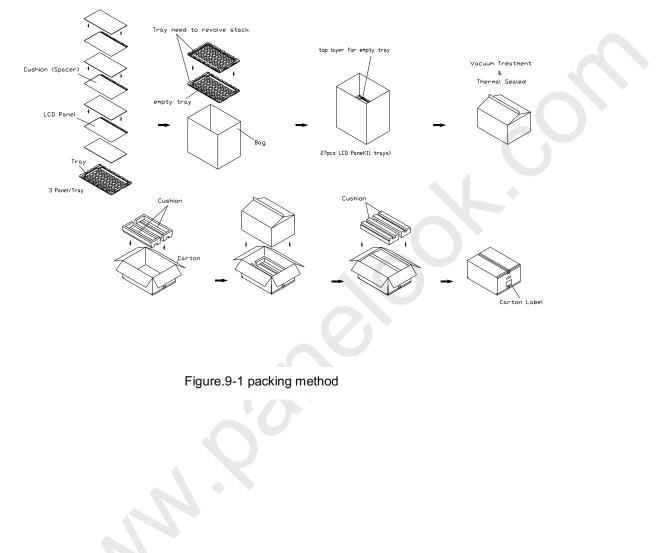
9. packaging

9.1 packing specifications

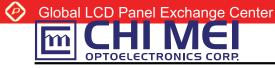
- (1) 27 LCD TV Panels / 1 Box
- (2) Box dimensions : 640(L) x 490(W) x 320(H) mm
- (3) Weight : Approx.24.2Kg

9.2 packing Method

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



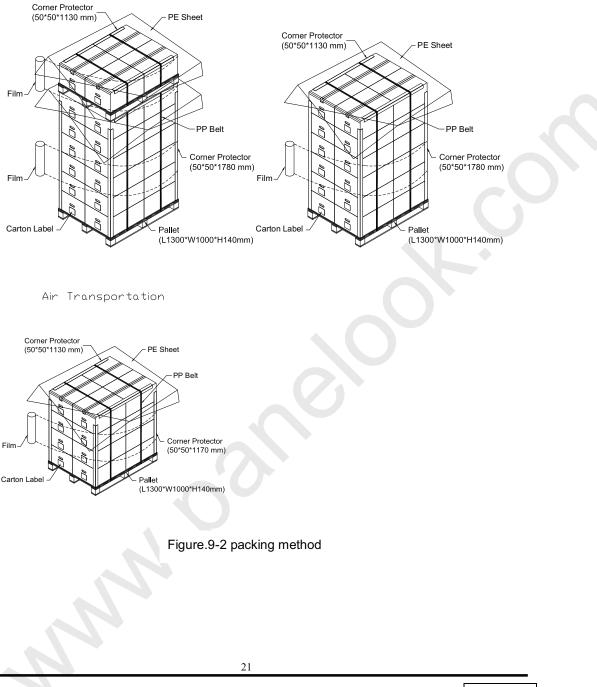
20

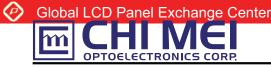


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10. PRECAUTIONS

10.1 ASSEMBLY AND HANDLING PRECAUTIONS

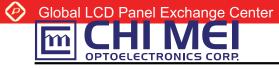
- (1) Do not apply rough force such as bending or twisting to the product during assembly.
- (2) To assemble backlight or install module into user's system can be only in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.
- (3) It's not permitted to have pressure 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.

刪除: The startup voltage of Backlight is approximately 1000 Volts. It may cause electrical shock while assembling with inverter. Do not disassemble the module or insert anything into the Backlight unit. -

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11. Mechanical Drawing

