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		Record of Revision								
Version	Revise Date	Page	Content							
01	2007-12-12	All	Initial release							
	2007-12-25	P13	Backlight driving condition							
			G							

www.panelook.com MT216WW01 V.0 SPEC NO. 3/23 PAGE Contents: A. General Specification **B. Electrical Specifications** 1. Pin assignment 2. Absolute maximum ratings 3. Electrical characteristics a. Typical operating conditions b. Display color vs. input data signals c. Input signal timing d. Display position e. Backlight driving conditions C. Optical specifications D. Reliability test items E. Safety F. Display quality G. Handling precaution H. Label I. Mechanical drawings Appendix

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A. General Specification

NO.	Item	Specification	Remark
1	Display resolution (pixel)	1680(H) X 1050(V), WSXGA+ resolution	
2	Active area (mm)	464.94(H) X 290.59(V)	
3	Screen size (inch)	21.6 inches diagonal	
4	Pixel pitch (mm)	0.277(H) X 0.277(V)	
5	Color configuration	R, G, B vertical stripe	
6	Overall dimension (mm)	493.7 (W) X 320.1 (H) X 16.5 (D) (typ.)	P
7	Weight (g)	3000 (typ.)	
8	Surface treatment	Anti-glare, Haze = 25%, Hard coating (3H)	
9	Input color signal	8 bit LVDS	
10	Display colors	16.7 M (6 bit with Hi-FRC)	
11	NTSC(%)	72% (typ)	
12	Optimum viewing direction	6 o'clock	
13	Backlight	4 CCFL	
14	RoHS	RoHS compliance	
	NN		

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B. Electrical Specifications

1. Pin assignment

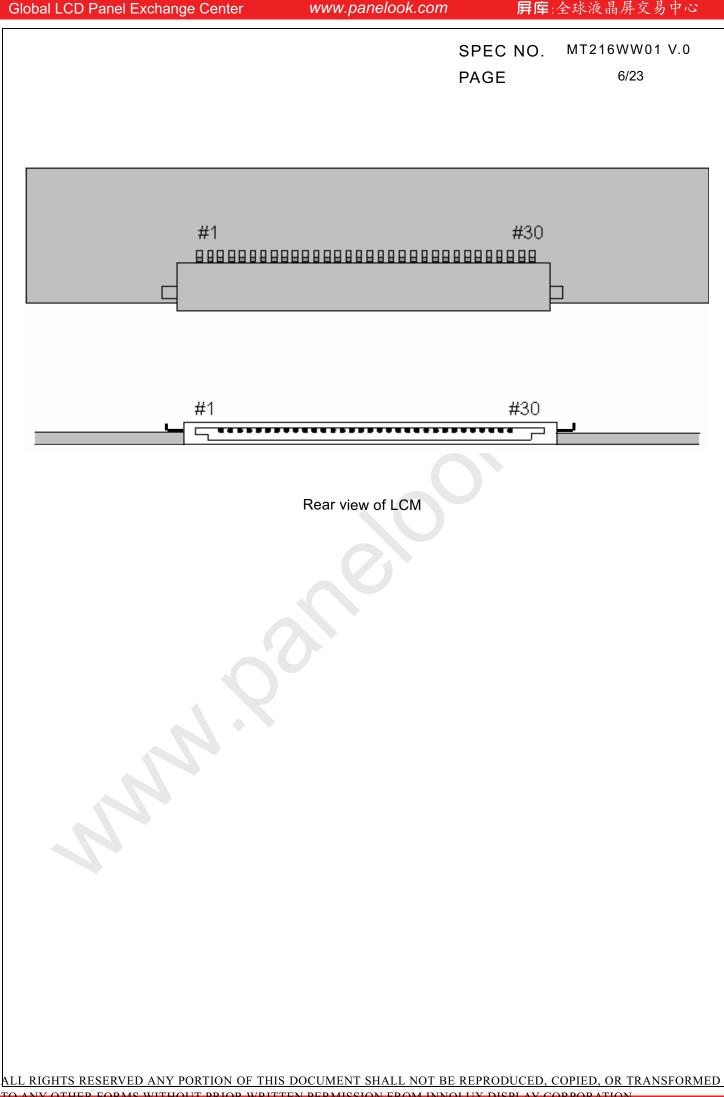
Module connector type: JAE FI-XB30SSL-HF15 or equivalent.

Pin No.	Symbol	Description
Frame	VSS	Ground
1	RXinO0-	-LVDS differential data input, Chan 0-Odd
2	RXinO0+	+LVDS differential data input, Chan 0-Odd
3	RXinO1-	-LVDS differential data input, Chan 1-Odd
4	RXinO1+	+LVDS differential data input, Chan 1-Odd
5	RXinO2-	-LVDS differential data input, Chan 2-Odd
6	RXinO2+	+LVDS differential data input, Chan 2-Odd
7	VSS	Ground
8	RXOC-	-LVDS differential Clock input (Odd)
9	RXOC+	+LVDS differential Clock input (Odd)
10	RXinO3-	-LVDS differential data input, Chan 3-Odd
11	RXinO3+	+LVDS differential data input, Chan 3-Odd
12	RXinE0-	-LVDS differential data input, Chan 0-Even
13	RXinE0+	+LVDS differential data input, Chan 0-Even
14	VSS	Ground
15	RXinE1-	-LVDS differential data input, Chan 1-Even
16	RXinE1+	+LVDS differential data input, Chan 1-Even
17	VSS	Ground
18	RXinE2-	-LVDS differential data input, Chan 2-Even
19	RXinE2+	+LVDS differential data input, Chan 2-Even
20	RXEC-	-LVDS differential Clock input (Even)
21	RXEC+	+LVDS differential Clock input (Even)
22	RXinE3-	-LVDS differential data input, Chan 3-Even
23	RXinE3+	+LVDS differential data input, Chan 3-Even
24	VSS	Ground
25	VSS	Ground
26	NC	No Connection
27	VSS	Ground
28	VCC	+5.0V power supply
29	VCC	+5.0V power supply
30	VCC	+5.0V power supply
Frame	VSS	Ground

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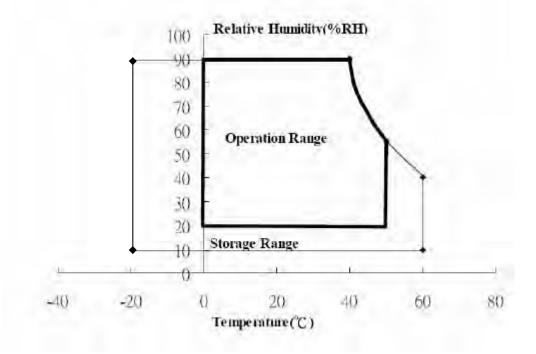
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2. Absolute maximum ratings

		Val	ues		
Parameter	Symbol	Min.	Max.	Unit	Remark
Power voltage	V_{cc}	-0.3	6	V	At 25°C
Input signal voltage	V_{LH}	-0.3	4.3	V	At 25°C
Operating temperature	Тор	0	50	°C	Note 1
Storage temperature	T _{ST}	- 20	60	°C	Note 2
CCFL Current	ICFL	3	8	[mA]	

Note 1: The relative humidity must not exceed 90% non-condensing at temperatures of 40°C or less. At temperatures greater than 40°C, the wet bulb temperature must not exceed 39°C. Note 2: The unit should not be exposed to corrosive chemicals.



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3. Electrical characteristics

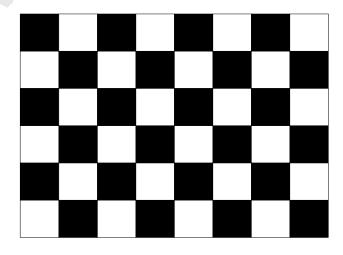
a. Typical operating conditions

	ltem		Symbol	Min.	Тур.	Max.	Unit	Remark
	Input Voltage	e	V _{cc}	4.5	5	5.5	V	
Permiss	sive Power In	out Ripple	V_{RF}	-	-	0.25	V	
		Black	I _{cc}	-	900	-		Note 1
Input	Input Current		I _{cc}	-	700	-	mA	Note 2
		Mosaic	I _{cc}	-	800			Note 3
	Rush Currer	nt	I _{Rush}	-	-	4	А	Note 4
Logic Input	Common M	lode Voltage	VCM	-	1.2	Y	V	
Voltage	Differential I	nput Voltage	VID	100		600	mV	
LVDS: IN+, IN-	Threshold V	oltage (High)	VTH	-)-	100	mV	Note 5
	Threshold V	′oltage (Low)	VTL	-100	-	-	mV	Note 5

- Note 1 : The specified current is under the V_{cc} =5V, 25°C, fv=60Hz (frame frequency) condition whereas black pattern is displayed.
- Note 2 : The specified current is under the Vcc =5V, 25°C, fv=60Hz (frame frequency) condition whereas white pattern is displayed.
- Note 3 : The specified current is under the Vcc =5V, 25°C, fv=60Hz (frame frequency) condition whereas mosaic pattern(black & white [8*6]) is displayed.

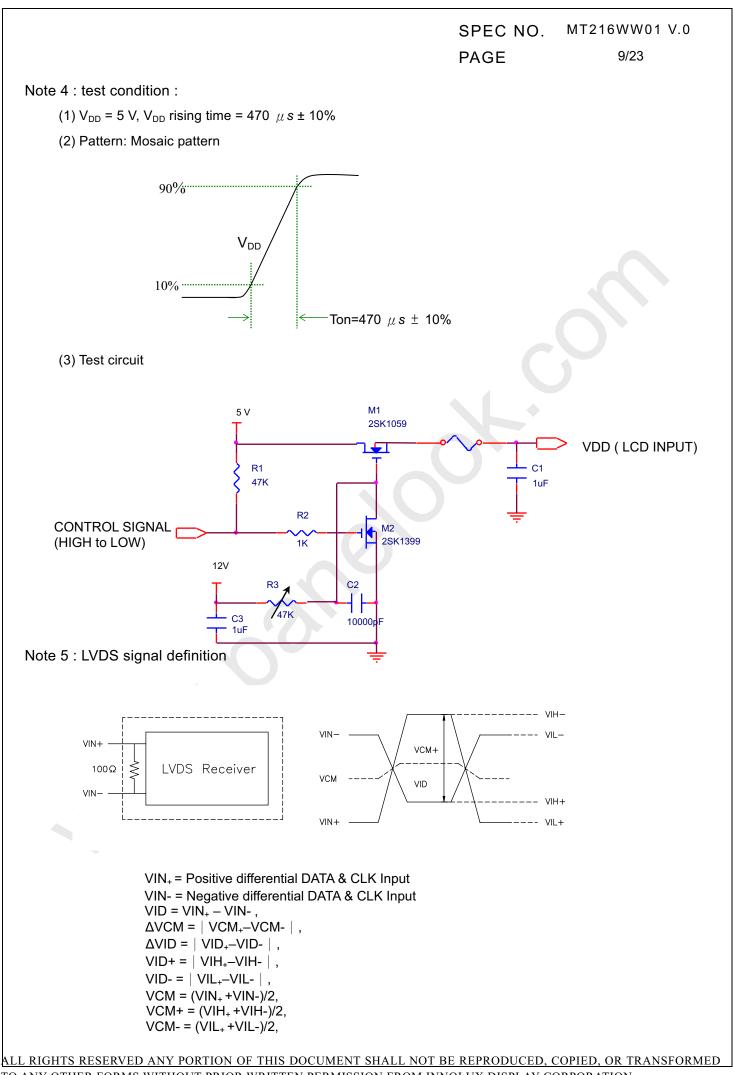
White: 255 Gray

Black: 0 Gray



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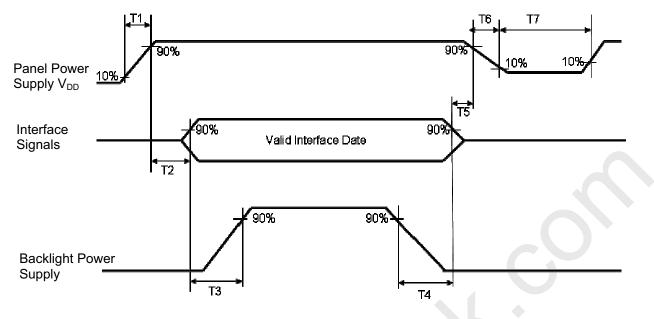


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Parameter		Value							
	Min.	Тур.	Max.	ms					
T1	0.1	Ŧ	10	ms					
T2	0		50	ms					
T3	200	250		ms					
T4	100	250		ms					
T5	0	20	50	ms					
T6	0.1			ms					
T7	1000			ms					

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b. Display color vs. input data signals

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 a reference for color versus data input.

												Inp	uto	colo	or d	lata									
	Color	MS	B		R	ed			SB	N	ISB		G	Gree	en		SB	MS	SB.			BI	ue	1	SB
		R7	R6	R5	R4	R3	R2		R0	G7	G6	G5	G4	G3	G2			B7	B6	B5	В4	В3	В2	B1	в0
Basic colors	Black Red(255) Green(255) Blue(255) Cyan Magenta Yellow White	0 1 0 0 1 1	0 1 0 0 1 1	0 1 0 0 1 1 1	0 1 0 0 1 1	0 1 0 0 1 1	0 1 0 0 1 1 1	0 1 0 0 1 1 1	0 1 0 0 1 1	0 0 1 0 1 0 1	0 0 1 1 0	0 0 1 1 1 0	0 0 1 1 0 1	0 0 1 1 1 0	0 0 1 1 0 1	0 0 1 1 0 1	0 0 1 1 0 1	0 0 1 1 1 0 1							
Red	Red(000) dark Red(001) Red(002) : Red(253) Red(254) Red(255) bright	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 1 : 0 1	0 1 0 : 1 0 1	0 0 0 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 0 0 0 0	0 0 : 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 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	Green(000)dark Green(001) Green(002) : Green(253) Green(254) Green(255)bright	0 0 : 0 0 0	0 0 : 0 0	0 0 : 0 0 0	0 0 0 : 0 0	0 0 : 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 1 1	0 0 1 : 0 1	0 1 : 1 0 1	0 0 : 0 0 0	0 0 : 0 0 0	0 0 0 0 0 0 0	0 0 : 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	Blue(000) dark Blue(001) Blue(002) : Blue(253) Blue(254) Blue(255) bright	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 : 0 0 0	0 0 0 0 0 0	0 0 0 0 0 0	0 0 : 0 0 0	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 : 1 1	0 0 1 : 0 1	0 1 0 : 1 0 1

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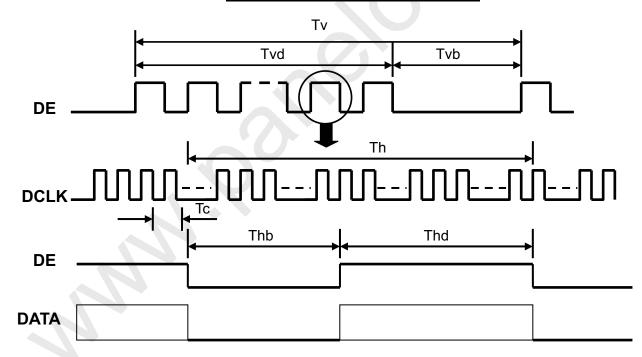
c. Input signal timing

Support Input Timing Table

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

Signal	ltem	Description	Min.	Тур.	Max.	Unit
Clock	Dclk	period	12.2	16.8	17.9	nS
CIUCK	DCIK	frequency	56	59.6	82	MHz
	T_{V_TOTAL}	V total line number	1059	1080	1100	Т _н
Vertical	$T_{V_{DATA}}$	Data duration	1050	1050	1050	Тн
ventical	T _{VB}	V-blank	9	30	50	T _H
	f _V	frequency	56	60	76	Hz
	T _{H_TOTAL}	H total pixel number	890	920	1004	DClk
Horizontal	T _{H_DATA}	Data duration	840	840	840	DClk
	T _{HB}	H-blank	73	80	164	DClk

Note: Because this module is operated by DE only mode, Hsync and Vsync input signals should be set to low logic level or ground. Otherwise, this module would operate abnormally.



INPUT SIGNAL TIMING DIAGRAM

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d. Display Position

D(1, 1)	D(2, 1)	 D(840, 1)	 D(1679, 1)	D(1680, 1)
D(1, 2)	D(2, 2)	 D(840, 2)	 D(1679, 2)	D(1680, 2)
:		 :		:
D(1, 525)	D(2, 525)	 D(840, 525)	 D(1679, 525)	D(1680, 525)
:		 :		:
D(1, 1049)	D(2, 1049)	 D(840, 1049)	 D(1679, 1049)	D(1680, 1049)
D(1, 1050)	D(2,1050)	 D(840, 1050)	 D(1679,1050)	D(1680, 1050)

e. Backlight driving conditions

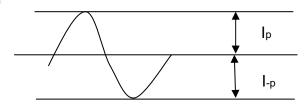
Parameter	Symbol	Min.	Тур.	Max.	Unit	Remark	Remark
Lamp voltage	VL	702	780	858	Vrms	@7mA	
Lamp operation current	IL	3	7	8	mArms		Note 1
Lown starting voltage	\/l_start	1400			Vrms	T = 25°C	Note 2,3,4,5
Lamp starting voltage	VLstart	1600			vrms	T = 0°C	Note 2,3,4,5
Frequency	F	40	-	60	KHZ		Note 5
Lamp life time		40000			Hr		Note 6

Note: The waveform of the voltage output of inverter must be area-symmetric and the design of the inverter must have specifications for the modularized lamp. The performance of the Backlight, such as lifetime or brightness, is greatly influenced by the characteristics of the DC-AC inverter for the lamp. All the parameters of an inverter should be carefully designed to avoid producing too much current leakage from high voltage output of the inverter. When designing or ordering the inverter please make sure that a poor lighting caused by the mismatch of the Backlight and the inverter (miss-lighting, flicker, etc.) never occurs. If the above situation is confirmed, the module should be operated in the same manners when it is installed in your instrument.

Note 1:

The degree of unbalance: less than 10%

The ratio of wave height: less than $\sqrt{2 \pm 10\%}$



Ip: high side peak

I-p: low side peak

The degree of unbalance = $|I_{p}-I_{-p}|$ /Irms*100(%) The ratio of wave height = I_{p} (or I_{-p})/Irms Lamp should be completely turned on.

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Note 2: Test equipment: AS-114B

- Note 3: The voltage shown above should be applied to the lamp for more than 1 second after startup. Otherwise, the lamp may not be turned on normally.
- Note 4: Inverter should provide more than min. value, and then lamp could be completely turned on.
- Note 5: The frequency range can be kept within ±10% range of electrical and optical characteristics. (Reference value)
- Note 6: Lamp life definition: The brightness of lamp becomes 50% of the initial brightness or not normal lighting.

Backlight connector : 35001HS-02L

Pin no.	Symbol	Function	Remark
1	VIH	Lamp high voltage input	Cable color: Pink
2	VIL	Lamp low voltage input	Cable color: White
3	VIH	Lamp high voltage input	Cable color: Blue
4	VIL	Lamp low voltage input	Cable color: Black

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C. Optical Specifications

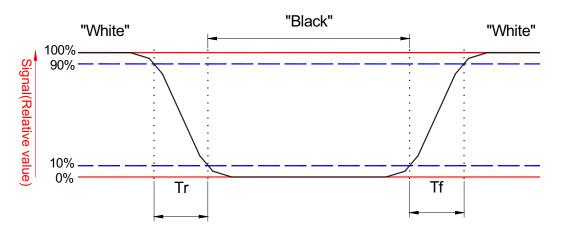
			Specification				
ltem	Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
Response time	Tr+Tf	θ= 0°		5	8	ms	Note 4
Contrast ratio	CR	θ= 0°	700	1000			Note 3,5
Viewing angle	Horizontal	CR≧10	150	170		deg.	Note 3,5,7
	Vertical (<i>θ</i>)		140	160	G		
	Horizontal (ϕ)	CR≧5	150	170	*		
	Vertical (θ)		150	170			
Brightness (Center)	YL		250	300		nit	Note 3,6
Color chromaticity(CIE)	Wx	$\theta = \phi = 0^{\circ}$	-0.03	0.313	+0.03		Note 3
	Wy			0.329			
	Rx			0.649			
	Ry			0.336			
	Gx			0.292			
	Gy			0.613			
	Вх			0.143			
	Ву			0.093			
White uniformity (9 points)	δw		0.75	0.80			Note 3,8
Cross talk	Ct				2%		Note 9

Note 1: Ambient temperature = 25°C.

- Note 2: To be measured in dark room after backlight warm up 30 minutes.
- Note 3: To be measured with a viewing cone of 2°by Topcon luminance meter BM-5A.
- Note 4: Definition of response time: The output signals of BM-7 are measured when the input signals are changed from "Black" to "White" (falling time) and from "White" to "Black" (rising time), respectively. The response time interval is between the 10% and 90% of amplitudes. Refer to figure as below:

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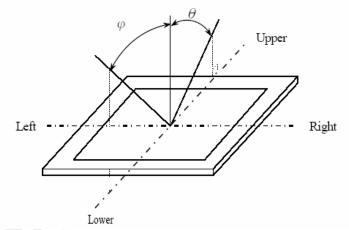
Note 5: Definition of contrast ratio:

Contrast ratio is calculated by the following formula.

Contrast ratio (CR)= <u>Brightness on the "white" state</u> <u>Brightness on the "black" state</u>

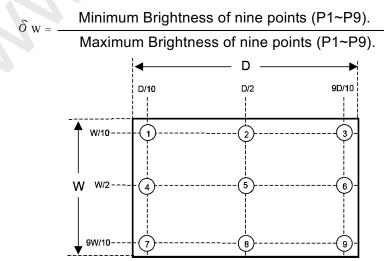
Note 6: Driving conditions for CCFL: I_L = 7mA, 50 KHz Frequency.

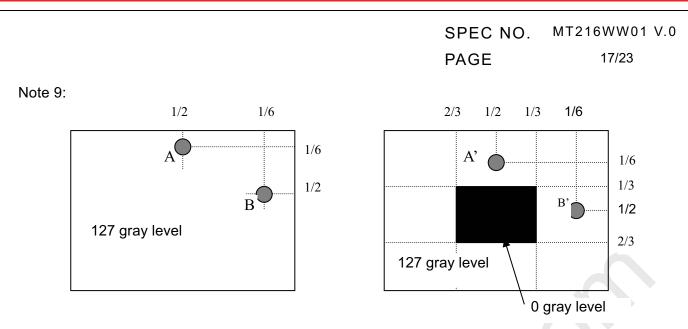
Note 7: Definition of viewing angle.



Note 8: Definition white uniformity:

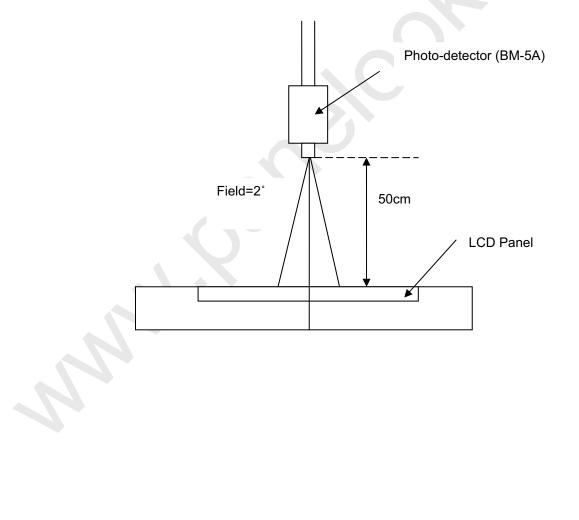
Luminance are measured at the following nine points (P1~P9).





I L_A - $L_{A'}$ I / L_A x 100%= 2% max., L_A and $L_{A'}$ are brightness at location A and A' I L_B - $L_{B'}$ I / L_B x 100%= 2% max., L_B and $L_{B'}$ are brightness at location B and B'

Note 10: Optical characteristic measurement setup.



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D. Reliability test items

Test Item	Test Condition	Judgment	Remark
High temperature storage	60°C, 240Hrs	Note 1	Note 2
Low temperature storage	-20°C, 240Hrs	Note 1	Note 2
High temperature & high	40°C, 90%RH, 240Hrs	Note 1	Note 2
humidity operation	(No condensation)		
High temperature operation	50°C, 240Hrs	Note 1	Note 2
Low temperature operation	0°C, 240Hrs	Note 1	Note 2
Thermal Shock -20°C~60°C		Note 1	Note 2
(non-operation)	1Hr, 10mins, 1Hr, 100cycles	NOLE I	Note 2
	Contact:+/-8kV, 150pF(330ohms),	\mathbf{O}	Note 2
Electrostatic discharge (ESD)	25 times/1 point, 1 time/1 sec	Note 1	
(non-operation)	Air discharge:+/-15kV, 150pF(330ohms),		
	25 times/1 point, 1 time/1 sec		
Vibration (non-operation)	Vibration level : 1.5G		Note 2
	Bandwidth : 10-300Hz		
	Waveform : sine wave,	Note 1	
	sweep rate : 10min	Note 1	
	30 min for each direction X, Y, Z		
	(1.5 Hrs in total)		
	Shock level : 50G, 11ms		Note 2
Mechanical Shock	Waveform : Half sine wave	Note 1	
(non-operation)	Direction : ±X, ±Y, ±Z		
	One time each direction		
MTBF Demonstration	40,000 hours with confidence level 90%	Note 1	Note 3

Note1: Pass: Normal display image with no obvious non-uniformity and no line defect. Partial transformation of the module parts should be ignored.

Fail: No display image, obvious non-uniformity, or line defects.

Note2: Evaluation should be tested after storage at room temperature for one hour.

Note 3: The MTBF (exclude the CCFL) calculation is based on the assumption that the failure rate distribution meets the Exponential Model.

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E. Safety

1. Sharp Edge Requirements

There will be no sharp edges or corners on the display assembly that could cause injury.

- 2. Materials
- a. Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible InnoLux Toxicologist.

b. Flammability

All components including electrical components that do not meet the flammability grade UL94-V1 in the module will complete the flammability rating exception approval process. The printed circuit board will be made from material rated 94-V1 or better. The actual UL flammability rating will be printed on the printed circuit board.

c. Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

F. Display quality

The display quality of the color TFT-LCD module should be in compliance with the Innolux's Incoming inspection standard.

G. Handling precaution

The Handling of the TFT-LCD should be in compliance with the Innolux's handling principle standard.

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	SPEC NO. MT216WW01 V.0 PAGE 20/23
H. Label	
1. Module Label	83 mm
MT216WW01 AM2200002	V.0 0XX INNOLUX
	GP
$\begin{array}{c} \mathbf{Z}_{1} \ \mathbf{Z}_{2} \ \mathbf{Z}_{3} \ \mathbf{Z}_{4} \ \mathbf{Z}_{5} \ \mathbf{Z}_{6} - \mathbf{Z}_{7} - \mathbf{Z}_{8} \ \mathbf{Z}_{9} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	E253847 Z ₁₀ Z ₁₁ Z ₁₂
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
)
	MADE IN XXX
(a) Model Number: MT216WW01	
(b) Version: V.0	
(c) Serial ID I: $Z_1 Z_2 Z_3 Z_4 Z_5 Z_6 Z_7$	$Z_7 Z_8 Z_9 Z_{10} Z_{11} Z_{12}$
	Serial No
	Code of grade
	INL internal use
	INL internal use
	Year, Month, Date
	INL internal use
Serial ID includes the information as below:	
1. Manufactured Date: Year: 0~9, for 2000	0~2009
2. Month: 1~9 & A~C for Jan.~ Dec.	
3. Date: 1~9 & A~Z (exclude I, O, Q, U) fo	or 1th~31th
4. Code of grade: 1, 2, 3, 5, E	
5. Serial No.: Module manufacture sequer	nce number.
(d) Serial ID II (INL internal use)	

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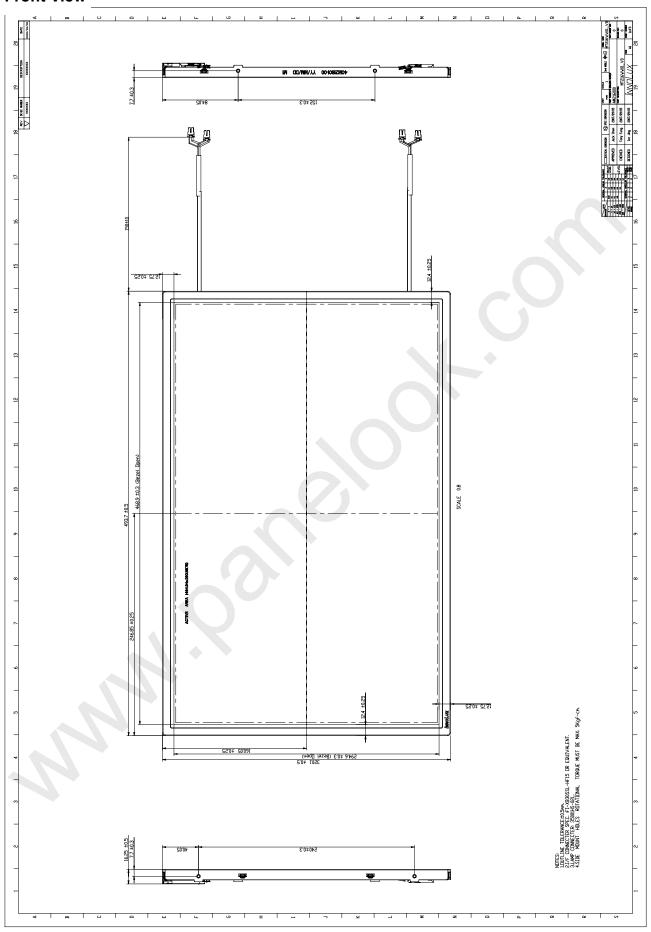


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Global LCD Panel Exchange Center 屏库:全球液晶屏交易中心 www.panelook.com MT216WW01 V.0 SPEC NO. 21/23 PAGE 2. Carton Label **INNOLUX DISPLAY** BOX ID: $Z_1 Z_2 Z_3 Z_4 - Z_5 - Z_6 Z_7 Z_8 Z_9$ **100** mm Model No. MT216WW01 V.0 0XX AM2200002 5 PCS Quantity : Made in XXX MFG Date: 20XX/XX/XX QC: 120 mm (a) Model Number: MT216WW01 (b) Version: V.0 (c) Packing quantity: 5 pcs (d) Serial ID: Z₁ Z_2 Z_3 Z_4 Z₅ Z_6 Z_7 Z_8 Z_9 Serial No Code of grade Year, Month, Date INL internal use Serial ID includes the information as below : (a) Manufactured Date: Year: 0~9, for 2000~2009 Month: 1~9 & A~C for Jan.~Dec. Date: 1~9 & A~Z (exclude I, O, Q, U) for 1th~31th (b) Code of grade: 1, 2, 3, 5, E (c) Serial No.: Module packing sequence number. ALL RIGHTS STRICTLY RESERVED. ANY PORTION OF THIS PRPER SHALL NOT BE REPRODUCED, COPIED, OR TRANSFORMED TO ANY OTHER FORMS WITHOUT PERMISSION FROM INNOLUX DISPLAY CORPORATION.

I. ME Drawing

1. Front View



2. Back View

