

Document Version: 0.5 Date: 2009/11/18

Product Specifications

21.6" WXGA Color TFT-LCD Module Model Name: T216XW01 V3

() Preliminary Specifications (*) Final Specifications



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Record Revision

Version	Date	No	Old Description	New Description	Remark
0.0	2009/8/20			First Draft	
0.1	2009/9/28	15	Color coordinate: White (0.285, 0.293)	Color coordinate: White (0.280, 0.290)	update
		8		Update pin1, pin2, pin3, pin20 note	update
		19,20		Update 2D drawing	update
		27		Add Appendix for EDID information	add
		10		Update lamp spec	update
0.2	2009/10/12	10		Update lamp spec	update
		24		Update label information	update
0.3	2009/10/16	14		Update Power Sequence	update
0.4	2009/11/12	8		Update LVDS connector	update
0.5	2009/11/18	21		Update vibration test condition	update



1. General Description

This specification applies to the 21.6 inch Color TFT-LCD Module T216XW01. This LCD module has a TFT active matrix type liquid crystal panel with 1,366x768 pixels, and the diagonal size is 21.6 inches. This module supports 1,366x768 XGA-WIDE mode (Non-interlace).

Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with an 8-bit gray scale signal for each dot.

The T216XW01 has been designed to apply to 8-bit and 1 channel LVDS interface method. It is intended to support displays where high brightness, wide viewing angle, high color saturation, and high color depth are very important.

This module is not equipped with inverter board for backlight.

* General Information

Item	Specification	Unit	Note
Active Screen Size	21.6	Inch	
Display Area	477.417 (H) x 268.416 (V)	mm	
Outline Dimension	501 (H) × 297 (V) × 17.3 (D)	mm	w/o Inverter
Resolution	1,366 x 768	pixel	
Pixel Pitch	0.3495	mm	
Pixel Arrangement	RGB vertical stripe		
Display mode	Normally Black		
Display Colors	16.7M (8-bit for R,G,B)	color	
Typical White Luminance	350 @ 8 mA	[cd/m ²]	
Surface Treatment	AG, Haze=11%, 3H		
Green	RoHS compliance		



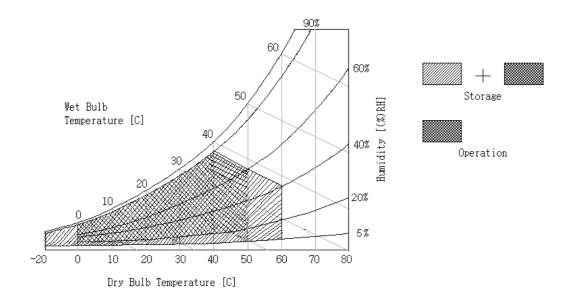
2. Absolute Maximum Ratings

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

Item	Symbol	Min	Max	Unit	Note
Logic/LCD Drive Voltage	Vdd	-0.3	6	[Volt]	1
Input Voltage of Signal	Vin	-0.3	3.6	[Volt]	1
Operating Temperature	TOP	0	+50	[°C]	2
Operating Humidity	HOP	10	90	[%RH]	2
Storage Temperature	TST	-20	+60	[°C]	2
Storage Humidity	HST	10	90	[%RH]	2

Note

- 1, Duration = 50 msec





3. Electrical Specification

The T216XW01 requires two power inputs. One is employed to power the LCD electronics and to drive the TFT array and liquid crystal. An inverter typically generates the second input, which powers the CCFL.

3-1 Electrical Characteristics

Parameter	Symbol		Values	Unit	Note	
Parameter	Syllibol	Min	Тур	Max	Oill	Note
LCD:						
Power Supply Input Voltage	Vcc	4.5	5.0	5.5	Vdc	
Power Supply Input Current	lcc	1	0.8	1.0	Α	1
Power Consumption	Pc	-	4.0	5.0	Watt	1
Inrush Current	I _{RUSH}	-	-	3	Α	1
Backlight Power Consumption		1	22.27	22.81	Watt	2
Total Power Consumption		-	26.27	27.81	Watt	
Life Time		50,000	-	-	Hours	5,6

Note:

- 1. Vcc=5.0V, Fv=60Hz, Fclk= 85.0 MHz, 25°C., Test Pattern: White Pattern
- **2.** Vcc rising time = $470 \,\mu s$, Vcc=5.0 V
- 3. The performance of the Lamp in LCM, for example: lifetime or brightness, is extremely influenced by the characteristics of the DC-AC Inverter. So all the parameters of an inverter should be carefully designed so as not to produce too much leakage current from high-voltage output of the inverter. When you design or order the inverter, please make sure unwanted lighting caused by the mismatch of the lamp and the inverter (no lighting, flicker, etc) never occurs. When you confirm it, the LCD Assembly should be operated in the same condition as installed in your instrument.
- **4.** Do not attach a conducting tape to lamp connecting wire. If the lamp wire attach to conducting tape, TFT-LCD Module have a low luminance and the inverter has abnormal action because leakage current occurs between lamp wire and conducting tape.
- **5.** The relative humidity must not exceed 80% non-condensing at temperatures of 40°C or less. At temperatures greater than 40°C, the wet bulb temperature must not exceed 39°C. When operate at low temperatures, the brightness of CCFL will drop and the lifetime of CCFL will be reduced.
- **6.** The life is determined as the time at which luminance of the lamp is 50% compared to that of initial value at the typical lamp current on condition of continuous operating at $25 \pm 2^{\circ}$ C. The lamp current should fix at 8 mA (typ.) and then keep the 50,000hr(min.) lamp life



3-2 Interface Connections

- LCD connector (CN1): P-TWO 196282-33041

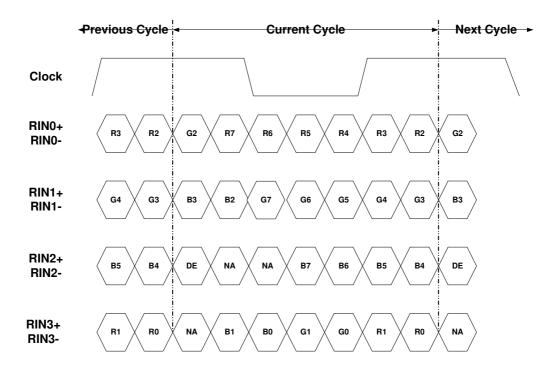
Pin No	Symbol	Description	Note
1	Reserved	No connect	AUO internal test pin
2	SCL	EEPROM Serial Clock	
3	SDA	EEPROM Serial Data	
4	GND	Ground	
5	Rx0-	LVDS Channel 0 [Polarity: Negative]	
6	Rx0+	LVDS Channel 0 [Polarity: Positive]	
7	GND	Ground	
8	Rx1-	LVDS Channel 1 [Polarity: Negative]	
9	Rx1+	LVDS Channel 1 [Polarity: Positive]	
10	GND	Ground	
11	Rx2-	LVDS Channel 2 [Polarity: Negative]	
12	Rx2+	LVDS Channel 2 [Polarity: Positive]	
13	GND	Ground	
14	RXCLK-	LVDS Clock [Polarity: Negative]	
15	RXCLK+	LVDS Clock [Polarity: Positive]	
16	GND	Ground	
17	Rx3-	LVDS Channel 3 [Polarity: Negative]	
18	Rx3+	LVDS Channel 3 [Polarity: Positive]	
19	GND	Ground	
20	Panel_SEL	Panel_SEL	
21	LVDS Option*	Low for JEIDA, High/Open for NS	
22	WP	High(3.3V) for writable, Low (GND) for Protection	
23	GND	Ground	
24	GND	Ground	
25	GND	Ground	
26	Vdd (+5V)	5V, DC, Regulated	
27	Vdd (+5V)	5V, DC, Regulated	
28	Vdd (+5V)	5V, DC, Regulated	
29	Vdd (+5V)	5V, DC, Regulated	
30	Vdd (+5V)	5V, DC, Regulated	

Note:

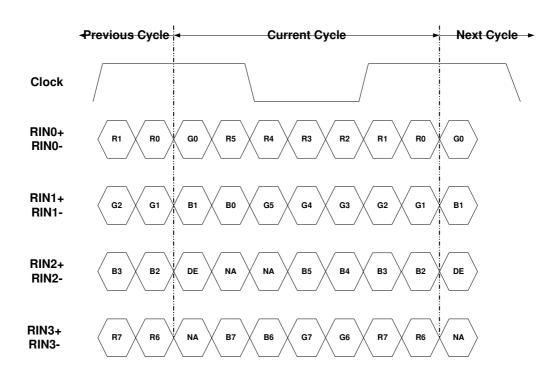
- 1, All GND (ground) pins should be connected together and should also be connected to the LCD's metal frame
- 2, All Vcc (power input) pins should be connected together.



* LVDS Option = L (GND) → JETDA Format



* LVDS Option = H (3.3V) or N.C.→ NS Format





* Backlight Connector Pin Configuration

Electrical specification (Lamp spec)

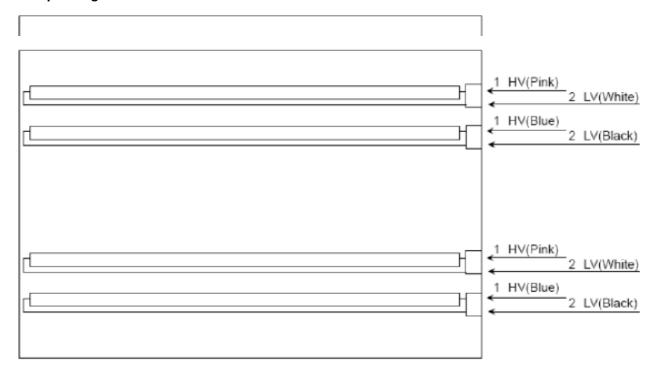
Parameter	Min	Тур	Max	Units	Condition	Note
CCFL Current (ICFL)	7	8	9	[mA] rms	(Ta=25°ℂ)	1
CCFL Frequency (FCFL)	40	46	80	[KHz]	(Ta=25°ℂ)	
CCFL Ignition Voltage (Vs)			1,270	[Volt] rms	(Ta= 25°€)	2
CCFL Ignition Voltage (Vs)			1,450	[Volt] rms	(Ta= 0°€)	3
CCFL Voltage (Reference) (VCFL)	671	696	735	[Volt] rms	(Ta=25°ℂ)	4
CCFL Power Consumption (PCFL)		22.27	26.46	[Watt]	(Ta=25°C)	5

Note:

- 1, CCFL Operation Current: Operation range from 5mA to 9mA.
- 2, Start-up Voltage means the lowest voltage (after output capacitor) at lighting on stable time under darkness environment (under 0.1 lux).
- 3, Start-up Voltage means the lowest voltage (after output capacitor) at lighting on stable time under lightness environment (over 500 lux).
- 4, CCFL Voltage is base on following current, 735Vrms @7.0mA; 696Vrms @8.0mA; 671Vrms @9mA.
- 5, $PCFL = ICFL \times VCFL \times 4 = 8 \times 696 \times 4 = 22.27 \text{ W (typ)}$

 $PCFL = ICFL \times VCFL \times 4 = 9 \times 735 \times 4 = 26.46 \text{ W (max)}$

* Lamp configuration





3-3 Signal Timing Specifications

This is the signal timing required at the input of the User connector. All of the interface signal timings should be satisfied with the following specifications for the proper operation.

* Timing Table

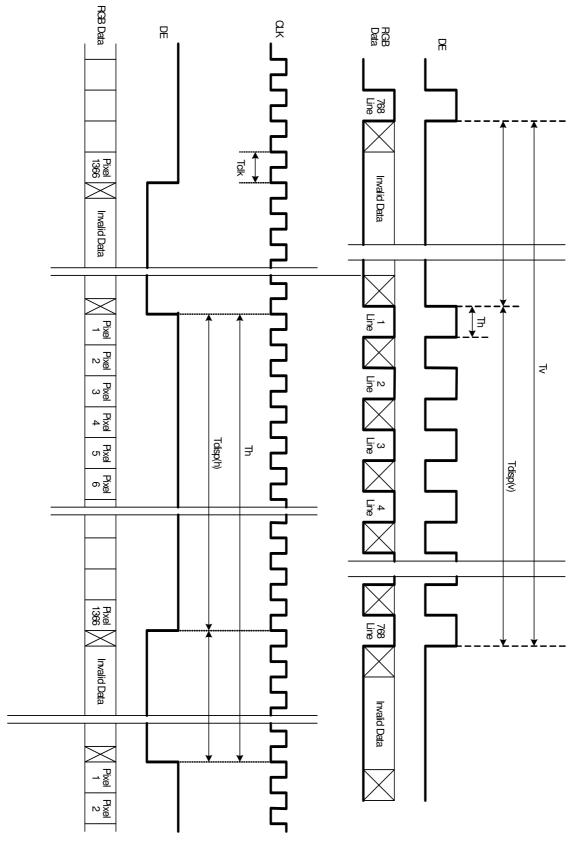
Signal	Item	Symbol	Min.	Тур.	Max.	Unit
	Period	Tv	784	810	1,015	Th
Vertical Section	Active	Tdisp(v)			Th	
	Blanking	Tblk (v)	8	42	247	Th
	Period	Th	1,460	1,648	2,000	Tclk
Horizontal Section	Active	Tdisp(h)		Tclk		
000	Blanking	Tblk (h)	48	282	634	Tclk
LVDS Clock	Frequency	Fclk (1/Tclk)	50	80	86	MHz
Vertical Frequency	Frequency	Fv	47	60	63	Hz
Horizontal Frequency	Frequency	Fh	43	48	53	kHz

Note:

- 1, CLK signal input must be valid while power supply is applied.
- 2, Display position is specific by the rise of DE signal only. Horizontal display position is specified by the falling edge of 1st CLK right after the rise of DE, is displayed on the left edge of the screen. Vertical display position is specified by the rise of DE after a "Low" level period equivalent to eight times of horizontal period. The 1st data corresponding to one horizontal line after the rise of DE is displayed at the top line of screen.
- 3, If a period of DE "High" is less than 1,366 CLK or less than 768 lines, the rest of the screen displays black.
- 4, The display position does not fit to the screen if a period of DE "High" and the effective data period do not synchronize with each other.



3-4 Signal Timing Waveforms





3-5 Color Input Data Reference

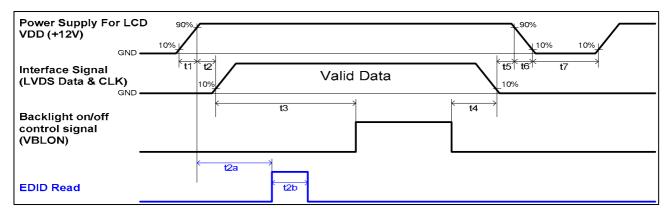
The brightness of each primary color (red, green and blue) is based on the 8 bit gray scale data input for the color. The higher the binary input, the brighter the color. The table below provides a reference for color versus data input.

* COLOR DATA REFERENCE

											I	npu	t Co	olor	Dat	ta									
Color		MS	D		RI	ΕD			SB	MS	D		GR	EEN	1		SB	MS	D		BL	UE			SB
		R7		R5	R4	R3	R2		T		G6	G5	G4	G3	G2	G1	G0	B7	В	B5	B4	ВЗ	B2	В 1	
	Black(L0)	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(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(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(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
Basic	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
Color	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(L255)	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(000)	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(001)	0	0	0	0	0	0	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(000)	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(001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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(000)	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(001)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	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



3-6 Power Sequence



		Values		l lait	
Parameter	Min. Type.		Max.	Unit	
t1	0.4		30	ms	
t2	0.1			ms	
t3	200			ms	
t4	0 ^{*1}			ms	
t5	0	0		ms	
t6			*2 	ms	
t7	500			ms	
t2a	10		100	ms	
t2b	0*3		100 ^{*3}	ms	

Note:

- (1) T4=0 : concern for residual pattern before BLU turn off.
- (2) T6: voltage of VDD must decay smoothly after power-off. (customer system decide this value)
- (3) T2b: customer decide this value



4. Optical Specification

Optical characteristics are determined after the unit has been 'ON' and stable for approximately 30 minutes in a dark environment at 25° C. The values specified are at an approximate distance 50cm from the LCD surface at a viewing angle of Φ and θ equal to 0° .

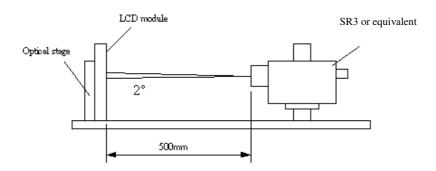


Fig.4-1 Optical measurement equipment and method

Da		C1			Value		l lm!4	Note
Param	eter	Sym	IDOI	Min.	Тур.	Max.	Unit	Note
Contrast Ratio		CR		2,000	2,500			1
Surface Luminance, white		LW	/H	300	350		cd/m²	2
Luminance Varia	ition	δ white	9 p			1.3		3
Response Time		T,	γ		6.5		ms	4
Color Gamut					72		%	
Color Coordinate	es							
	RED	R	X		0.640			
		R	Y		0.330			
	GREEN	G	X		0.290			
		G	Y	T 0.00	0.600	T 0.00		
	BLUE	В	x	Тур0.03	0.150	Typ.+0.03		
		В	Y		0.060			
	WHITE	W	×		0.280			
		W	Y		0.290			
Viewing Angle by	y ELDIM							Contrast Ratio>10
x axis, right($\varphi = 0^{\circ}$)		θ	r	65	88		Degree	5
x axis, le	eft(φ =180°)	θ_{\perp}		65	88		Degree	5
y axis, u	p(φ =90°)	θ	θ_{u}		88		Degree	5
y axis, d	own ($\varphi = 0^{\circ}$)	θ	d	55	88		Degree	5



Note:

1, Contrast Ratio (CR) is defined mathematically as:

2, Surface luminance is luminance value at point 1 across the LCD surface 50cm from the surface with all pixels displaying white. From more information see FIG 4-2. When I_{BL} = **32** mA, L_{WH} =350cd/ $\mathring{\text{m}}$ (typ.) L_{WH} =Lon1, Where Lon1 is the luminance with all pixels displaying white at center 1 location.

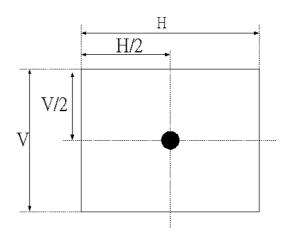


Fig.4-2 Luminance

3, The variation in surface luminance, δ WHITE is defined (center of Screen) as:

 $\delta_{\text{WHITE(9P)}}$ =Maximum(L_{on1}, L_{on2},...,L_{on9})/Minimum(L_{on1}, L_{on2},...L_{on9})

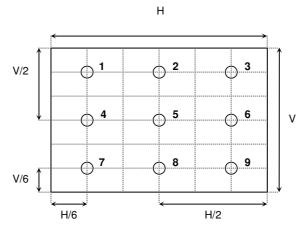


Fig.4-3 Luminance Variation



4, Response time T γ is the average time required for display transition by switching the input signal for five luminance ratio (0%,25%,50%,75%,100% brightness matrix) and is based on f_v=60Hz to optimize.

	0%	25%	50%	75%	100%
0%		t 0%-25%	t 0%-50%	t 0%-75%	t 0%-100%
25%	t 25%-0%		t 25%-50%	t 25%-75%	t 25%-100%
50%	t 50%-0%	t 50%-25%		t 50%-75%	t 50%-100%
75%	t 75%-0%	t 75%-25%	t 75%-50%		t 75%-100%
100%	t 100%-0%	t 100%-25%	t 100%-50%	t 100%-75%	

5, Viewing angle is the angle at which the contrast ratio is greater than 10. The angles are determined for the horizontal or x axis and the vertical or y axis with respect to the z axis which is normal to the LCD surface. For more information see FIG 4-5.

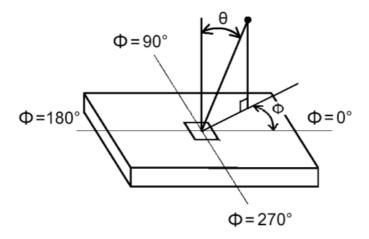


Fig.4-4 Viewing Angle Definition



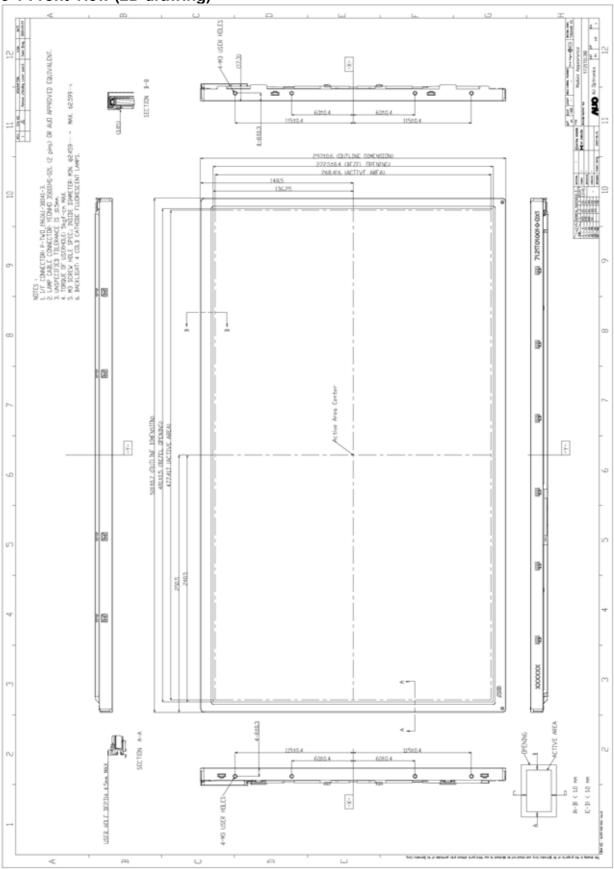
5. Mechanical Characteristics

The contents provide general mechanical characteristics for the model T216XW01. In addition the figures in the next page are detailed mechanical drawing of the LCD.

	Horizontal (typ.)	501mm							
Outline Dimension	Vertical (typ.)	297mm							
	Depth (typ.)	17.3mm							
Bezel Area	Horizontal (typ.)	481mm							
bezei Area	Vertical (typ.)	272.5mm							
Active Diepley Area	Horizontal	477.417mm							
Active Display Area	Vertical	268.416mm							
Weight	2,350g (typ.)								
Surface Treatment	HC, 3H								

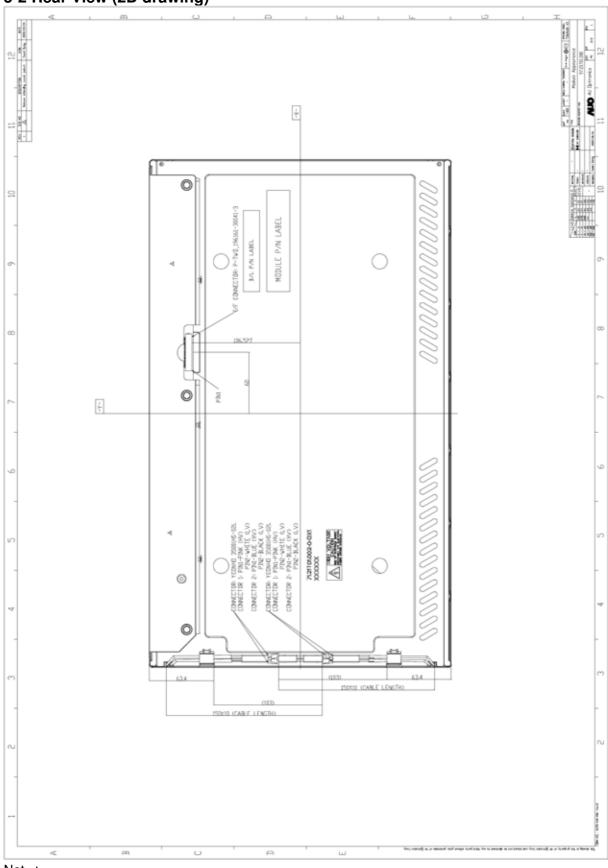


5-1 Front View (2D drawing)





5-2 Rear View (2D drawing)



1, Assembly lamp connecter type: YEONHO 35001HS-02L

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T216XW01 V3

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6. Reliability— Environment test condition

	Test Items	Q'ty	Conditions								
1 High Temperature Storage		3	60°C 300 hrs								
2	2 Low Temperature Storage		-20°C, 300 hrs								
3	3 High Temperature Operation		50℃, 300 hrs								
4	4 Low Temperature Operation		-5°C, 300 hrs								
5	5 Vibration (non-operation)		Wave form: random Vibration level: 1.5G RMS Bandwidth: 10-300Hz, Duration: X, Y, Z 30min One time each direction								
6	Shock (non-operation) 3 Waveform: ha		Shock level: 50G Waveform: half sine wave, 11ms Direction: ±X,±Y, ±Z One time each direction								
7	Vibration (With carton)		Random wave (1.5 Grms 10~200Hz) 30mins / Per each X.Y.Z axes								
8	Drop (With carton)	3	Height: 45.7cm 1 corner, 3 edges, 6 surfaces (ASTMD4169-I)								



7. International Standard

7-1 Safety

1, UL6500, Underwriters Laboratories, Inc. (AUO file number : E204356)

Standard for Safety of Information Technology Equipment Including electrical Business Equipment.

2, CAN/CSA C22.2 No. 950-95 Third Edition, Canadian Standards Association, Jan. 28, 1995

Standard for Safety of Information Technology Equipment Including Electrical Business Equipment.

3, EN60950: 1992+A2: 1993+A2: 1993+C3: 1995+A4: 1997+A11: 1997

IEC 950: 1991+A1: 1992+A2: 1993+C3: 1995+A4:1996

IEC 60065

European Committee for Electro technical Standardization (CENELEC)

EUROPEAN STANDARD for Safety of Information Technology Equipment Including Electrical Business Equipment.

7-2. EMC

- 1, ANSI C63.4 "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electrical Equipment in the Range of 9kHz to 40GHz. "American National standards Institute(ANSI), 1992
- 2, C.I.S.P.R "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology Equipment." International Special committee on Radio Interference.
- 3, EN 55022 "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology Equipment." European Committee for Electrotechnical Standardization. (CENELEC), 1998

7-3 Green

Green Mark Description:

- 1, For Pb Free products, AUO will add for identification.
- 2, For RoHS compatible products, AUO will add for identification.

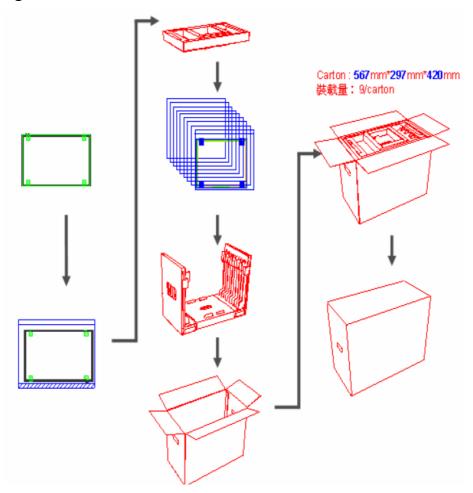
Note

The Green Mark will be present only when the green documents have been ready by AUO Internal Green Team. (The definition of green design follows the AUO green design checklist.)



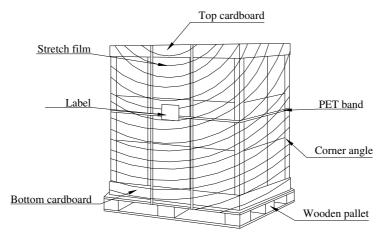
8. Packing

8-1 Packing Instruction



8-2 Pallet Information

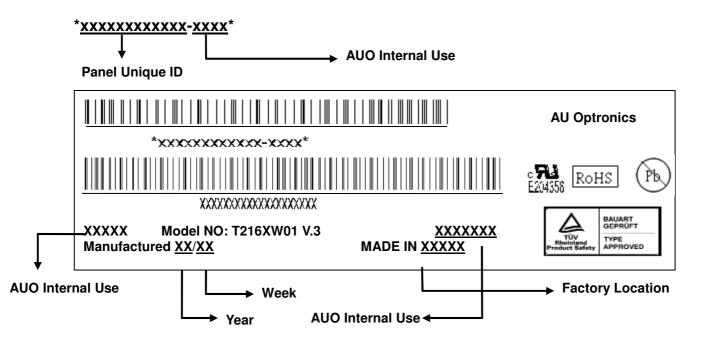
By air & by sea (3*2)*2 layers, 12 boxes in a pallet, total 108 pcs of module in a pallet Dimension : 1,150 * 910 * 1,944 mm



Pallet Dimension: 1,150 * 910 * 138 mm



8-3 Shipping Label

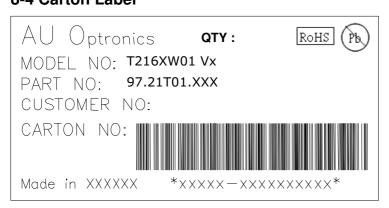


Green mark description

- (1) For Pb Free Product, AUO will add hor identification.
- (2) For RoHs compatible products, AUO will add RoHS for identification.

Note: The green Mark will be present only when the green documents have been ready by AUO internal green team. (definition of green design follows the AUO green design checklist.)

8-4 Carton Label





9. PRECAUTIONS

Please pay attention to the followings when you use this TFT LCD module.

9-1 MOUNTING PRECAUTIONS

- 1, You must mount a module using holes arranged in four corners or four sides.
- 2, You should consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to module. And the case on which a module is mounted should have sufficient strength so that external force is not transmitted directly to the module.
- 3, Please attach the surface transparent protective plate to the surface in order to protect the polarizer. Transparent protective plate should have sufficient strength in order to the resist external force.
- 4, You should adopt radiation structure to satisfy the temperature specification.
- 5, Acetic acid type and chlorine type materials for the cover case are not desirable because the former generates corrosive gas of attacking the polarizer at high temperature and the latter causes circuit break by electro-chemical reaction.
- 6, Do not touch, push or rub the exposed polarizers with glass, tweezers or anything harder than HB pencil lead. And please do not rub with dust clothes with chemical treatment. Do not touch the surface of polarizer for bare hand or greasy cloth. (Some cosmetics are detrimental to the polarizer.)
- 7, When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks with petroleum benzene. Normal-hexane is recommended for cleaning the adhesives used to attach front/ rear polarizers. Do not use acetone, toluene and alcohol because they cause chemical damage to the polarizer.
- 8, Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- 9, Do not open the case because inside circuits do not have sufficient strength.

9-2 OPERATING PRECAUTIONS

- 1, The device listed in the product specification sheets was designed and manufactured for TV application
- 2, The spike noise causes the mis-operation of circuits. It should be lower than following voltage: V=±200mV(Over and under shoot voltage)
- 3, Response time depends on the temperature. (In lower temperature, it becomes longer..)
- 4, Brightness depends on the temperature. (In lower temperature, it becomes lower.) And in lower temperature, response time (required time that brightness is stable after turned on) becomes longer.
- 5, Be careful for condensation at sudden temperature change. Condensation makes damage to polarizer or electrical contacted parts. And after fading condensation, smear or spot will occur.
- 6, When fixed patterns are displayed for a long time, remnant image is likely to occur.



7, Module has high frequency circuits. Sufficient suppression to the electromagnetic interference shall be done by system manufacturers. Grounding and shielding methods may be important to minimize the interface.

9-3 ELECTROSTATIC DISCHARGE CONTROL

Since a module is composed of electronic circuits, it is not strong to electrostatic discharge. Make certain that treatment persons are connected to ground through wrist band etc. And don't touch interface pin directly.

9-4 PRECAUTIONS FOR STRONG LIGHT EXPOSURE

Strong light exposure causes degradation of polarizer and color filter.

9-5 STORAGE

When storing modules as spares for a long time, the following precautions are necessary.

- 1, Store them in a dark place. Do not expose the module to sunlight or fluorescent light. Keep the temperature between 5° C and 35° C at normal humidity.
- 2, The polarizer surface should not come in contact with any other object. It is recommended that they be stored in the container in which they were shipped.

9-6 HANDLING PRECAUTIONS FOR PROTECTION FILM

- 1, The protection film is attached to the bezel with a small masking tape. When the protection film is peeled off, static electricity is generated between the film and polarizer. This should be peeled off slowly and carefully by people who are electrically grounded and with well ion-blown equipment or in such a condition, etc.
- 2, When the module with protection film attached is stored for a long time, sometimes there remains a very small amount of flue still on the Bezel after the protection film is peeled off.
- 3, You can remove the glue easily. When the glue remains on the Bezel or its vestige is recognized, please wipe them off with absorbent cotton waste or other soft material like chamois soaked with normal-hexane.



Appendix EDID:

Item	Description									Value								
Vendor code	Vendor Code										1							
Panel Inch	Panel Inch, setting function: 21.6inch= 22 / 26inch= 26 32inch= 32 / 37inch= 37 40inch= 40 / 42inch= 42 46inch= 46 / 52inch= 52										22							
H.Resolution	Panel Horizontal resolution information. 16bit: 0x02 = MS Byte, 0x03 = LS Byte (1) Horizontal resolution = 3840 (2) Horizontal resolution = 1920 (3) Horizontal resolution = 1366										1366							
V.Resolution	Panel Vertical Resolution information: 16bit: 0x04 = MS Byte, 0x05 = LS Byte (1) Vertical resolution = 2160 (2) Vertical resolution = 1080 (3) Vertical resolution = 768											768						
V. Frequency	Panel Vertical frequency information. 0: 50Hz / 60Hz 1: 100Hz / 120Hz 2: 200Hz / 240Hz											0						
Data format	Panel LVDS Data format information. 0: 6bit												1					
		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Part Number	Panel maker's version information. @ Example: T260XW05 V0 Item: (0),(1),(2),(3),(4),(5),(6),(7),(8),(9),(10),(11) "T","2","6","0","X","W","0","5"," ","V","0","?"	т	2	1	6	x	w	0	1		٧	3						Capitalization