

Product Description: T260XW02 TFT-LCD	PANEL with RoHS Guarantee
AUO Model Name: T260XW02 VQ	
Customer Part No/Project Name:	
Customer Signature Date	AUO Date
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Date: 2008/10/31

Product Specifications

26.0" WXGA Color TFT-LCD Module Model Name: T260XW02 VQ

() Preliminary Specifications (*) Final Specifications



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Record of Revision

Version	Date	No	Old Description	New Description	Remark
0.0	2008/10/31				First release



1. General Description

This specification applies to the 26.0 inch Color TFT-LCD Module T260XW02 VQ. This LCD module has a TFT active matrix type liquid crystal panel 1366x768 pixels, and diagonal size of 26.0 inch. This module supports 1366x768 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 a 8-bit gray scale signal for each dot.

The T260XW02 VQ has been designed to apply the 8-bit 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. The T260XW02 VQ model is RoHS verified which can be distinguished on panel label.

* General Information

Items	Specification	Unit	Note
Active Screen Size	26.0	inches	
Display Area	575.769 (H) x 323.712(V)	mm	
Outline Dimension	626.0 (H) x 373.0 (V) x 45.0(D)	mm	With inverter
Driver Element	a-Si TFT active matrix		
Display Colors	16.7M	Colors	
Number of Pixels	1366 x 768	Pixel	
Pixel Pitch	0.4215	mm	
Pixel Arrangement	RGB vertical stripe		
Display Mode	Normally Black		
Surface Treatment	AG, Haze=11%, 3H		



2. Absolute Maximum Ratings

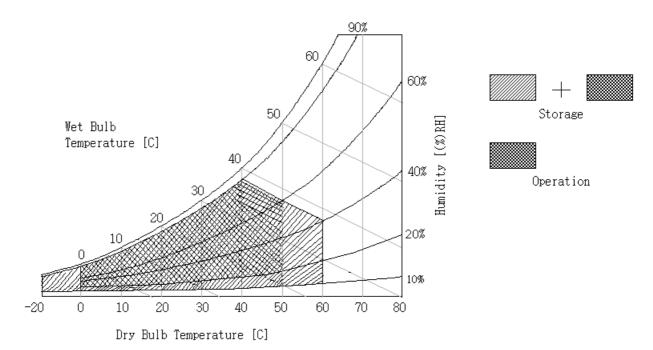
The following are maximum values which, if exceeded, may cause faulty operation or damage to the unit.

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive Voltage	V_{CC}	-0.3	13.2	[Volt]	Note 1
Input Voltage of Signal	V_{in}	-0.3	3.6	[Volt]	Note 1
BLU Input Voltage	VDDB	-0.3	27.0	[Volt]	Note 1
BLU Brightness Control Voltage	VDIM	-0.3	6.0	[Volt]	Note 1
Operating Temperature	TOP	0	+50	[°C]	Note 2
Operating Humidity	HOP	10	90	[%RH]	Note 2
Storage Temperature	TST	-20	+60	[°C]	Note 2
Storage Humidity	HST	10	90	[%RH]	Note 2
Panel Surface Temperature	PST		65	[°C]	Note 3

Note 1: Duration = 1 sec

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 3: Surface temperature is measured at 50°C Dry condition





3. Electrical Specification

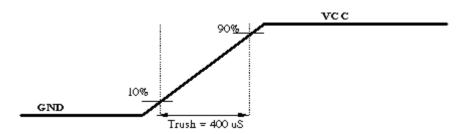
The T260XW02 VQ requires two power inputs. One is employed to power the LCD electronics and to drive the TFT array and liquid crystal. The second input power for the BLU is to power inverter.

3-1 Electrical Characteristics

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	Parameter	Symbol	Min	Тур	Max	Unit	Notes
LCD:							
Power Su	upply Input Voltage	Vcc	10.8	12	13.2	Vdc	1
Power Su	upply Input Current	lcc	-	0.35	0.43	Α	2
Power Co	onsumption	Pc	-	4.2	5.16	Watt	2
Inrush Cu	urrent	I_{RUSH}	-	-	3.0	Apeak	3
	Differential Input High Threshold Voltage	VTH			+100	mV	4
LVDS Interface	Differential Input Low Threshold Voltage	VTL	-100			mV	4
	Common Input Voltage	VCIM	1.10	1.25	1.40	V	4
CMOS	Input High Threshold Voltage	VIH (High)	2.4		3.3	Vdc	
Interface	Input Low Threshold Voltage	VIL (Low)	0		0.7	Vdc	
Backlight Power Consumption		PDDB		40		Watt	
Life Time			50,000	60,000		Hours	6,7

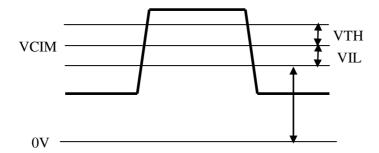
Note:

- 1. The ripple voltage should be controlled under 10% of V_{CC}
- **2.** Vcc=12.0V, $f_v = 60$ Hz, fCLK=81.5Mhz , 25 $^{\circ}$ C, Test Pattern : White Pattern
- 3. Measurement condition:





4. VCIM = 1.2V



- 5. The performance of the Lamp in LCD panel, for example life time or brightness, is extremely influenced by the characteristics of the DC-AC Inverter. So all the parameters of an inverter should be carefully designed 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. After confirmation, the LCD panel should be operated in the same condition as installed in your instrument.
- **6.** The relative humidity must not exceed 80% non-condensing at temperatures of 40℃ or less. At temperatures greater than 40℃, the wet bulb temperature must not exceed 39℃. When operate at low temperatures, the brightness of CCFL will drop and the life time of CCFL will be reduced.
- 7. Specified values are for a single lamp only which is aligned horizontally. The lifetime is defined as the time which luminance of the lamp is 50% compared to its original value.

[Operating condition: Continuous operating at $Ta = 25\pm2^{\circ}$ C]



3-2 Interface Connections

LCD connector (CN1): Starconn 093G30-B0001A-1

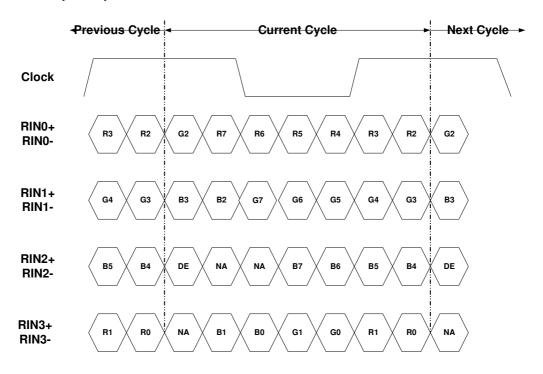
Pin No	Symbol	Description	Default
1	VCC	+12V, DC, Regulated	
2	VCC	+12V, DC, Regulated	
3	VCC	+12V, DC, Regulated	
4	VCC	+12V, DC, Regulated	
5	GND	Ground and Signal Return	
6	GND	Ground and Signal Return	
7	GND	Ground and Signal Return	
8	GND	Ground and Signal Return	
9	LVDS Option	Low/Open for Normal (NS), High for JEIDA	NS Mode
10	Reserved	Open or Low	AUO internal test
11	GND	Ground and Signal Return for LVDS	
12	RIN0-	LVDS Channel 0 negative	
13	RIN0+	LVDS Channel 0 positive	
14	GND	Ground and Signal Return for LVDS	
15	RIN1-	LVDS Channel 1 negative	
16	RIN1+	LVDS Channel 1 positive	
17	GND	Ground and Signal Return for LVDS	
18	RIN2-	LVDS Channel 2 negative	
19	RIN2+	LVDS Channel 2 positive	
20	GND	Ground and Signal Return for LVDS	
21	RCLK-	LVDS Clock negative	
22	RCLK+	LVDS Clock positive	
23	GND	Ground and Signal Return for LVDS	
24	RIN3-	LVDS Channel 3 negative	
25	RIN3+	LVDS Channel 3 positive	
26	GND	Ground and Signal Return for LVDS	
27	Reserved	Open or High	AUO internal test
28	Reserved	Open or High	AUO internal test
29	GND	Ground and Signal Return	
30	GND	Ground and Signal Return	

Note:

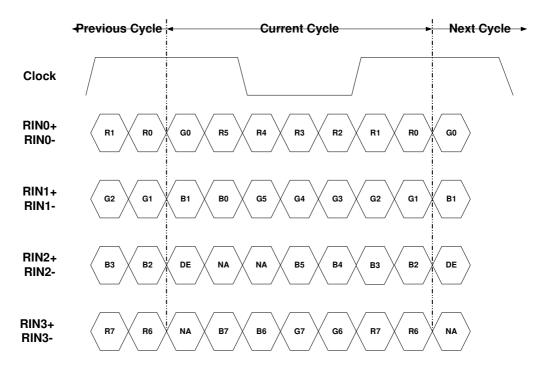
- All GND (ground) pins should be connected together and should also be connected to the LCD's metal frame.
 All Vcc (power input) pins should be connected together.



LVDS Option = H (3.3V) → JETDA Format



LVDS Option = L (GND) or OPEN → NS Format



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3-3 Signal Timing Specifications

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

* Timing Table

DE only Mode Vertical Frequency

Signal	ltem	Symbol	Min	Туре	Max	Unit			
	Period	Tv	776	810	1015	Th			
Vertical Section	Active	Tdisp(v)		768					
	Blanking	Tblk (v)	8	42	247	Th			
Horizontal Section	Period	Th	1414	1648	2000	Tclk			
	Active	Tdisp (h)		Tclk					
	Blanking	Tblk (h)	48	282	634	Tclk			
LVDS Clock	Frequency	1/Tclk	50	80	86	MHz			
Vertical Frequency	Frequency	Freq	47	60	63	Hz			
Horizontal Frequency	Frequency	Freq	43	48	53	KHz			

Notes:

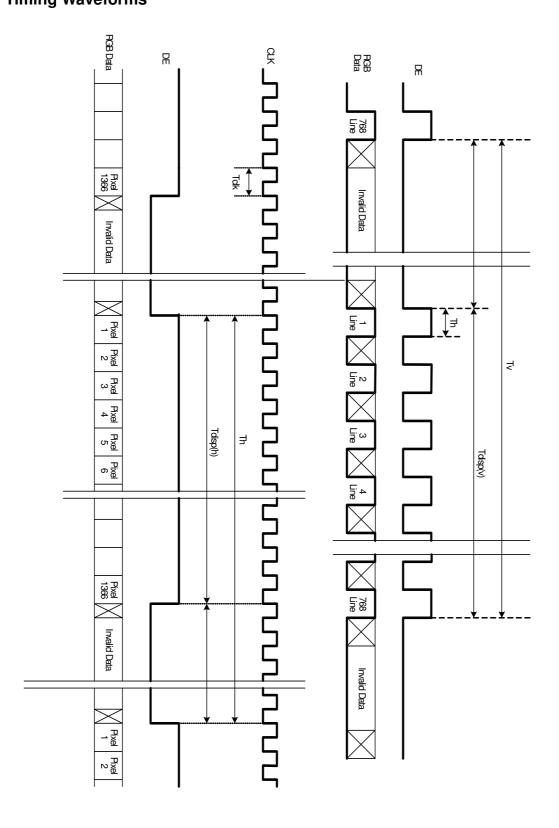
Horizontal display position is specified by the rising edge of 1st DCLK after the rise of 1st DE, is displayed on the left edge of the screen.

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 the of 1st DE is displayed at the top line of screen.

- 2) If a period of DE "High" is less than 1366 DCLK or less than 768 lines, the rest of the screen displays black.
- 3) 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.

¹⁾ Display position is specific by the rise of DE signal only.







3-5 Color Input Data Reference

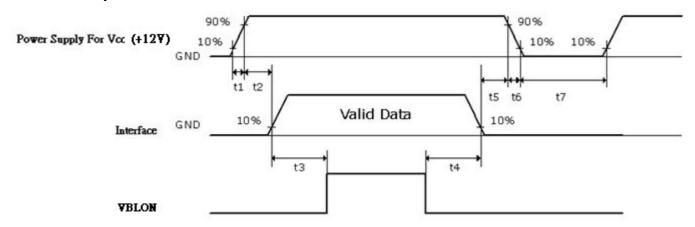
The brightness of each primary color (red, green and blue) is based on the 8 bit gray scale data input for the color; the higher the binary input, the brighter the color. The table below provides a reference for color versus data input.

COLOR DATA REFERENCE

											Inp	out	Co	loi	· Da	ata									\Box
	Color				RE	ΕD						(GRE	ΞEΝ	1						BL	UE			
· ·	50101	MS	_						SB	MS							SB		SB					LS	
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	В7	B6	B 5	B 4	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(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
Basic	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
Color	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
00.0.	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(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
ODEEN	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		L																ļ	ļ	ļ			ļ		ļ
	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 for LCD



Parameter		Units		
Parameter	Min.	Тур.	Max.	Uiils
t1	0.4	-	30	ms
t2	0.1	-	50	ms
t3	200	-	-	ms
t4	10	-	-	ms
t5	0.1	-	50	ms
t6	-	-	300	ms
t7	500	-	-	ms

Note:

The timing controller will not be damaged in case of TV set AC input power suddenly shut down.

Once power reset, it should follow power sequence as spec. definition.

(1) Apply the lamp voltage within the LCD operation range. When the back-light turns on before the LCD operation or the LCD turns off before the back-light turns off, the display may momentarily become abnormal screen.



3-7 Backlight Power Specification for LCD Module

3.7.1 Electrical specification

(Ta=25±5°C)

No	ITEM	SYMB	OL	CONDITION	MIN	TYP	MAX	UNIT	Note
1	Input Voltage	VDD	В		21.6	24.0	26.4	VDC	
2	Input Current	IDDI	В	VDDB=24V VDIM=3.3V	1.59	1.67	1.75	ADC	1
3	Input Power	PDD	В	VDDB=24V VDIM=3.3V	38	40	42	W	1
4	Inrush current	IRUS	SH	VDDB=24V VDIM=3.3V		-	6	ADC	1,2
6	ON/OFF Control Voltage	VBLON	ON	VDDB=24V	2.0	3.3	5.0	VDC	
Ľ		VBLOIV	OFF	VDDB=24V	0.0		8.0	V D O	
7	ON/OFF Control Current	IBLON		VDDB=24V	-1		1.5	mADC	
8	Dimming Control Voltage	VDIM	MAX	VDDB=24V		3.3		VDC	
L	Diffilling Control voltage		MIN	VDDB=24V		0.0		VDO	
9	Dimming Control Current	I_DIM	MIN	VDDB=24V			1.5	mADC	
10	Internal Dimming Ratio	DIM_R			20		100	%	
11	PWM Function	V PWM	MAX		2		3.3	VDC	
' '	r will i direction	V_F VVIVI	MIN		0		0.8	VDC	
12	External PWM Control Current	I_EPWM					2	mADC	
13	External PWM Ratio (Duty)	D_EP\	MM		10		100	%	3
14	External PWM Frequency	F_EPV	MV		140		240	Hz	

Note 1 : Condition: VDDB=24V (Ta=25±5°C, Turn on for 45minutes), PWM=100%

Note 2 : Measurement condition Rising time = 20 ms (VDDB : 10%~90%)

Note 3: (a) Uniformity and flicker do not guarantee below 20% dimming control;

(b) 10% dimming control is function okay and no backlight shut down.



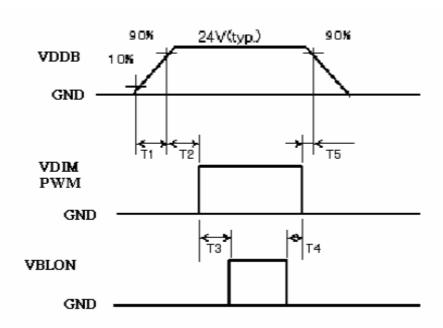
CN1: CI0114M1HRL-LF (Cvilux)

Pin No	Symbol	Description	Default
Pin No	Symbol	Description	
1	VDDB(main power)	DC input 24V VDC	24V
2	VDDB(main power)	DC input 24V VDC	24V
3	VDDB(main power)	DC input 24V VDC	24V
4	VDDB(main power)	DC input 24V VDC	24V
5	VDDB(main power)	DC input 24V VDC	24V
6	GND	Ground	GND
7	GND	Ground	GND
8	GND	Ground	GND
9	GND	Ground	GND
10	GND	Ground	GND
11	DET	Inverter OK: Low/GND (0-0.8V) Inverter NG: Open collector	-
12	VBLON	BL on-off : Open/High (3.3V) for BL ON, Low(GND) for BL OFF	-
13	ADIM	Internal PWM : 0V=20% ; 3.3V=100% ; OPEN=100% < NC ; When External PWM >	-
14	PDIM	External PWM (10%~100%) < NC; When Internal PWM >	-

Note: Pin13 and Pin14 can't be used at the same time!



3.7.3 Power Sequence for Inverter



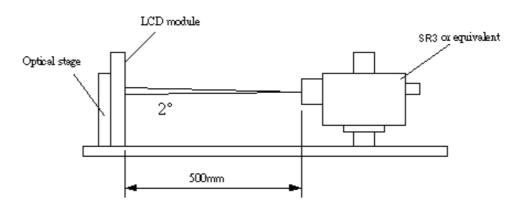
Parameter		Units		
Parameter	Min.	Тур.	Max.	Uiils
T1	20	-	-	ms
T2	10	-	-	ms
T3	0	-	-	ms
T4	50	-	-	ms
T5	0	-	-	ms



4. Optical Specification

Optical characteristics are determined after the unit has been 'ON' and stable for approximately 45 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° . Signal generator used for measurement is "Chroma 2913" and signal setting follows the typical value shown in page 13 with vertical frequency range A (fv=60Hz). Meanwhile, dimmer is 3.3(V) for its maximum setting.

Fig.1 1 presents additional information concerning the measurement equipment and method.



Parameter		Symbol	Values			Units	Notes
		Symbol	Min.	Тур.	Max.	Offics	Notes
Contrast Ratio		CR	2400	3000			1
Surface Luminance, white		LWH	360	450		cd/m²	2
Luminance Va	ariation	δ _{WHITE} 9 p			1.3		3
Response Tir	ne (G to G)	Тү		6.5		ms	4
Color Gamut		NTSC		72		%	
Color Coordii	nates						
	RED	R_X	-Typ0.03	0.64	Тур.+0.03		
	NED	R_Y		0.33			
	GREEN	G_X		0.28			
	GREEN	G_Y		0.59			
	BLUE	B_X		0.15			
	BLUE			0.05			
WHITE		W_X		0.28			
	WILLE	W_Y		0.29			
Viewing Angle							
x axis, right(φ=0°)		θ_{r}		89		Degree	
x axis, left(φ=180°)		θ_{l}		89		Degree	5
y axis, up(φ=90°)		θ_{u}		89		Degree	
y axis, down (φ=0°)		$ heta_{ extsf{d}}$		89		Degree	



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 2. When $V_{DDB} = 24V$, $I_{DDB} = 1.67A$. L_{WH} =Lon1

Where Lon1 is the luminance with all pixels displaying white at center 5 location.

The variation in surface luminance, δ_{WHITE} is defined (center of Screen) as:

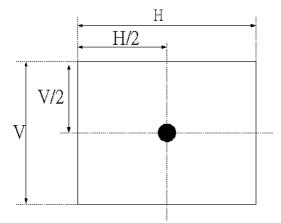
$$\delta_{WHITE(9P)}$$
 = Maximum($L_{on1}, L_{on2}, ... L_{on9}$) / Minimum($L_{on1}, L_{on2}, ..., L_{on9}$)

Response time Ty 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:50%-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 FIG4.

FIG. 2 Luminance



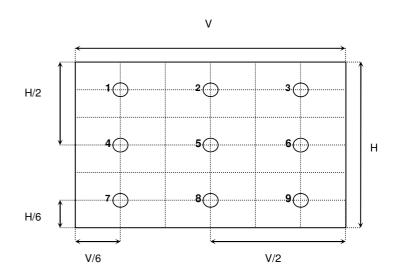




FIG.3 Response Time

The response time is defined as the following figure and shall be measured by switching the input signal for "any level of gray(bright)" and "any level of gray(dark)".

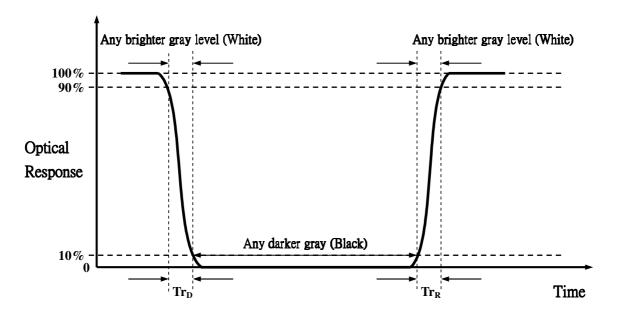
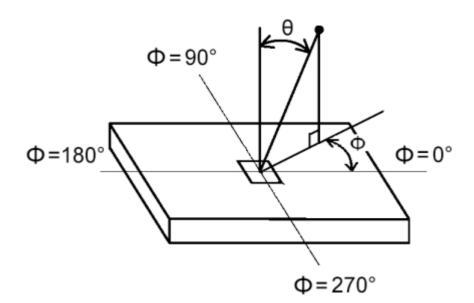


FIG.4 Viewing angle





5. Mechanical Characteristics

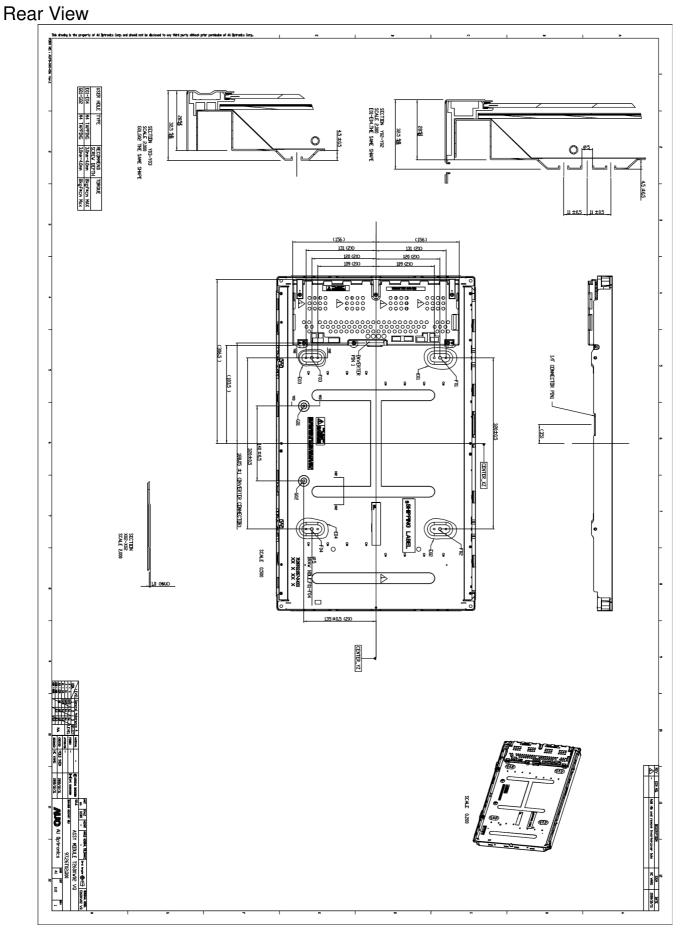
The contents provide general mechanical characteristics for the model T260XW02 VQ. In addition the figures in the next page are detailed mechanical drawing of the LCD.

	Horizontal	626.0mm		
Outline Dimension	Vertical	373.0mm		
	Donth	45.0mm(w/ inverter & shielding)		
	Depth	39.0mm(w/o inverter)		
Bezel Area	Horizontal	580.8mm±0.5mm		
Dezei Alea	Vertical	328.8mm±0.5mm		
Active Display Area	Horizontal	575.769mm		
Active Display Area	Vertical	323.712mm		
Weight	3750g (Typ.)			
Surface Treatment	AG, Haze=11%, 3H			



DETAIL A SCALE 2,000 32±0,5 (2X,B01~B02) 626±1 (QUILLINE LENGTH) 607.8 ±0.8 (USER HOLES) 580.8 ±0.5 (REZEL DPENING) 575.769 ±0.5 (ACTIVE AREA) CENTER_XZ 323,712 ±0,5 (ACTIVE AREA) 328,8 ±0,5 (BEZEL OPENING) 354.8 ±0.5 (USER HOLES) 45±10NDDULE THICKNESS tid specification, me f1-x30si2—He/30 pins) de comatible comectide domectide specification,chiolagher—Lega pins) de comatible comectide liceame 13 ads am 19 novecupied. 30x speci/a-b/c2mm/g-b/c2mm







6. Reliability

Environment test condition

	Test Items	Q'ty	Conditions		
1	High Temperature Storage	3	60℃ 300 hrs		
2	Low Temperature Storage	3	-20℃, 300 hrs		
3	High Temperature Operation	3	50℃, 300 hrs		
4	Low Temperature Operation	3	-5℃, 300 hrs		
5	Vibration (non-operation)	3	(10 ~ 300Hz/1.5G/11min SR, XYZ 30min/axis) Vibration level : 1.5G RMS, Bandwidth : 10-300Hz Duration: X, Y, Z 30min,		
6	Shock (non-operation)	3	Shock level: 50G Waveform: have sine wave, 11ms Direction: ±X,±Y, ±Z One time each direction		
7			Random wave (1.5 Grms 10~200Hz) 30mins / Per each X.Y.Z axes		
8 Drop (With carton)		3	Height: 457mm 1 corner, 3 edges, 6 surfaces (ASTMD4169-I)		



7. International Standard

7-1 Safety

- (1) UL1950 Third Edition, Underwriters Laboratories, Inc. Jan. 28, 1995 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

European Committee for Electro technical Standardization (CENELEC)

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

(4) EN60065

7-2 EMC

- a) 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.
- b) C.I.S.P.R "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology Equipment." International Special committee on Radio Interference.
- c) EN 55022 "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology Equipment." European Committee for Electro technical Standardization. (CENELEC), 1998.

7-3 Green

Green Mark Description:

- a) For Pb Free products, AUO will add 😉 for identification.
- b) 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

Label sample



6D8A82N5KMZZ-ZM0105

6D8A82N5KMZZ: Panel serial number

ZM0: AUO internal code

Manufactured 08/11: 2008 week 11

Carton Label

AU Optronics QTY: 5

MODEL NO: T260XW02 VX PART NO: 97.26T02.XXX

CUSTOMER NO:

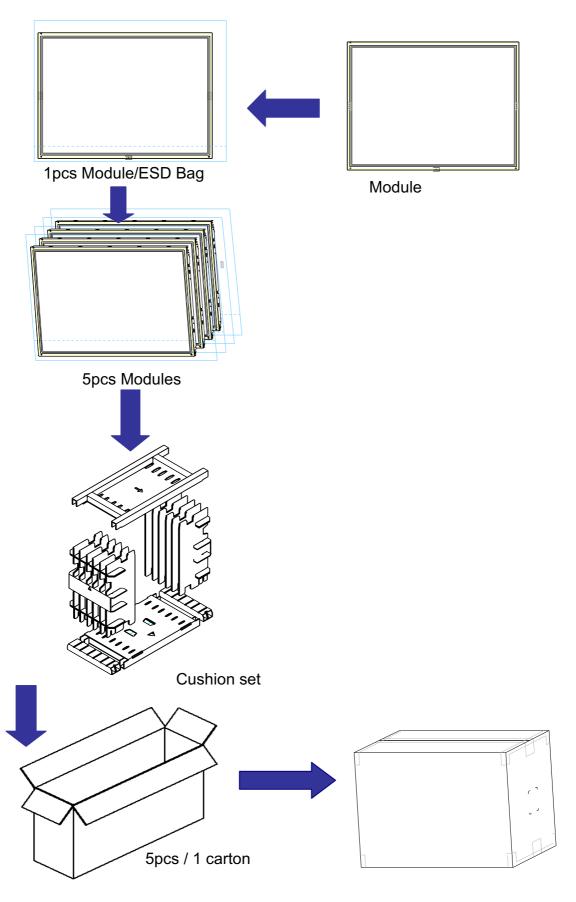
CARTON NO:

Made in Taiwan

PM100-01A1600001

Carton Size 722(L) mm*325(W) mm*469(H) mm

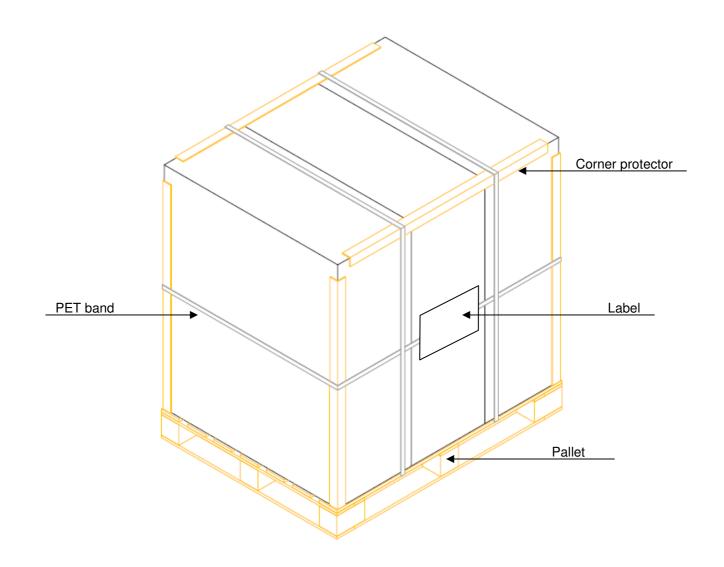






Pallet and Shipment information

	Item		Packing Remark				
	ItCIII	Qty.	Dimension	Weight (kg)	- I acking Hemark		
1	Packing BOX	5pcs/box	722(L)mm*325(W)mm*469(H)mm	25			
2	Pallet	1	980(L)mm*740(W)mm*138(H)mm	13			
3	Boxes per Pallet	6 boxes/Pa	6 boxes/Pallet				
4	Panels per Pallet	30pcs/palle	30pcs/pallet				
	Pallet after packing		980(L)mm*740(W)mm*1076(H)mm	163			





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.