



Product Description: T370XW02 TFT-LCD PANEL with RoHS guarantee							
AUO Model Name: T370XW02 VC02							
Customer Part No/Project Name							
Customer Signature Date	AUO Date						
	Approved By: PM Director / Frank Hsu						
	Reviewed By: RD Director / Hong Jye Hong						
	Reviewed By: Project Leader / Evan Chen						
	Prepared By: PM / Peggy Pei 						
ANN ANN							



Document Version : 0.0 Date : 2008/11/06

Product Specifications

37.0" WXGA Color TFT-LCD Module Model Name: T370XW02 VC02

> () Preliminary Specifications (*) Final Specifications

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





Contents

No	
	CONTENTS
	RECORD OF REVISIONS
1	GENERAL DESCRIPTION
2	ABSOLUTE MAXIMUM RATINGS
3	ELECTRICAL SPECIFICATION
3-1	ELECTRIACL CHARACTERISTICS
3-2	INTERFACE CONNECTOR
3-3	SIGNAL TIMING SPECIFICATION
3-4	SIGNAL TIMING WAVEFORM
3-5	COLOR INPUT DATA REFERENCE
3-6	POWER SEQUENCE
3-7	BACK LIGHT POWER SPECIFICATION
4	OPTICAL SPECIFICATION
5	MECHANICAL CHARACTERISTICS
6	RELIABILITY
7	PACKING
7-1	SAFETY
7-2	EMC
7-3	GREEN
8	PACKING
9	PRECAUTIONS

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0

 \oslash



Record of Revision

Version	Date	No	Old Description	New Description	Remark
0	2008/11/06		First issue		

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0



1. General Description

This specification applies to the 37.0 inch Color TFT-LCD Module T370XW02 VC02. This LCD module has a TFT active matrix type liquid crystal panel 1366x768 pixels, and diagonal size of 37.0 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 T370XW02 VC02 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 T370XW02 VC02 model is RoHS verified which can be distinguished on panel label.

Items	ems Specification		Note
Active Screen Size	37.02 inches		
Display Area	819.6 (H) x 460.8(V)	mm	
Outline Dimension	877.0(H) x 514.6(V) x 54.3(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	0.51075	mm	
Pixel Arrangement	RGB vertical stripe		
Display Mode	Normally Black		
Surface Treatment	Anti-Glare, 3H		Haze = 11%

* General Information

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0



2. Absolute Maximum Ratings

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

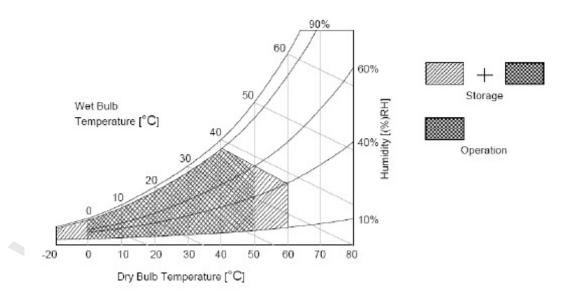
Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive Voltage	Vcc	-0.3	14	[Volt]	Note 1
Input Voltage of Signal	Vin	-0.3	4	[Volt]	Note 1
BLU Input Voltage	VDDB	-0.3	27	[Volt]	Note 1
BLU Control Voltage	BLon	-0.3	7.0	[Volt]	Note 1
Operating Temperature	TOP	0	+50	[°C]	Note 2
Operating ambient Humidity	HOP	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:50 msec.
- 2. Maximum Wet-Bulb should be $39^\circ\!\mathrm{C}$ and No condensation.

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.

3. Surface temperature is measured at 50 $^\circ C$ Dry condition



©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





3. Electrical Specification

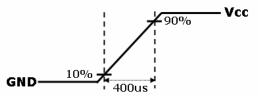
The T370XW02 VC02 requires two power inputs. One is employed to power the LCD electronics and to drive the TFT array and liquid crystal. The second input power for the Backlight, is to power inverter.

3-1 Electrical Characteristics

	Parameter			Val	ues	Unit	Notes
			Min	Тур	Max		
LCD:			I			I	
Power S	Supply Input Voltage	Vcc	10.8	12	13.2	Vdc	1
Power S	Supply Input Current	lcc	-	0.38	0.66	Α	2
Power C	Consumption	Рс	-	5.76	7.92	Watt	2
Inrush C	Current	I _{RUSH}	-	-	4	Apeak	3
LVDS	Differential Input High	VTH			100	mV	4
Interface	Threshold Voltage						
	Differential Input Low	VTL	-100			mV	4
	Threshold Voltage						
	Common Input Voltage	VCIM	1.10	1.25	1.40	V	4
CMOS	Input High Threshold	VIH	2.4		3.3	Vdc	
Interface	Voltage	(High)					
	Input Low Threshold	VIL	0		0.7	Vdc	
	Voltage	(Low)					
Backlight F	Power Consumption	PDDB	112	124	136	Watt	
Life Time			50,000			Hours	

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°C, Test Pattern : White Pattern
- 3. Measurement condition :

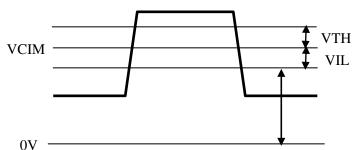


©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0







- 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. 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.
- 7. 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 life time of CCFL will be reduced.

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0



AUO 3-2 Interface Connections

- Connector on Panel: FI-X30SSL-HF (Manufactured by JAE)

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	Please leave it open	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	Please leave it open	AUO internal test
28	Reserved	Please leave it open	AUO internal test
29	GND	Ground and Signal Return	
30	GND	Ground and Signal Return	

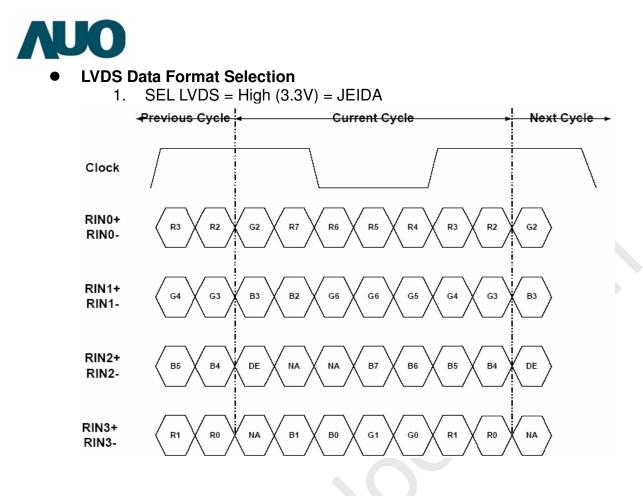
Note:

- 1. 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.
- 2. For Pin 10, 27 and 28, panel will not damage if negligently connect these pins to high or low

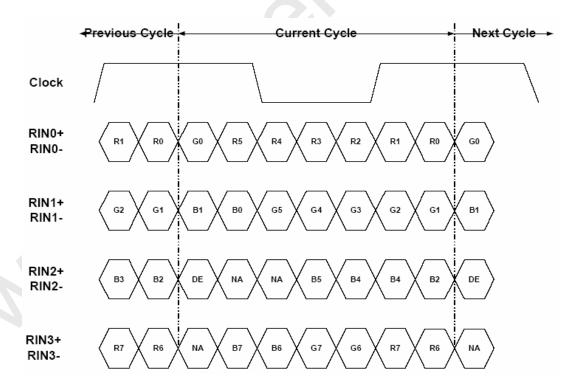
©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





2. SEL LVDS = Low



©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





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 it's proper operation.

* Timing Table

DE only Mode

Vertical Frequency:

Signal	Item	Symbol	Min.	Туре.	Max.	Unit
	Period	Τv	784	806	1015	Th
Vertical Section	Active	Tdisp(V)		768		Th
	Blanking	Tblk(V)	8	42	247	Th
	Period	Th	1414	1648	2000	Tclk
Horizontal Section	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	Fraguanay	Frog	43	48	53	KHz
Frequency	Frequency	Freq.	43	40	00	ΝΠΖ

Notes:

- 1. Display position is specific by the rise of DE signal only.
- 2. 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.
- 3. 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.
- 4. If a period of DE "High" is less than 1366 DCLK or less than 768 lines, the rest of the screen displays black.
- 5. 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.

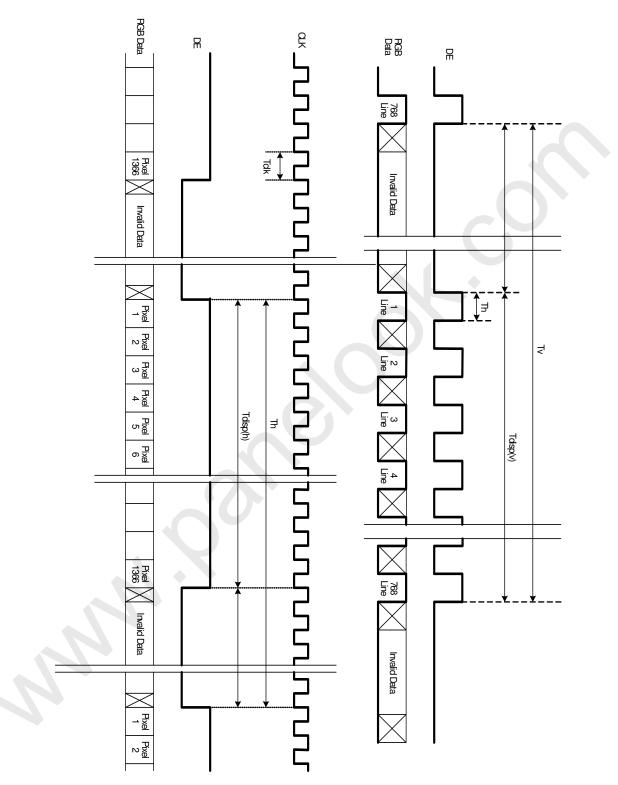
©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





3-4 Signal Timing Waveforms







3-5 Color Input Data Reference

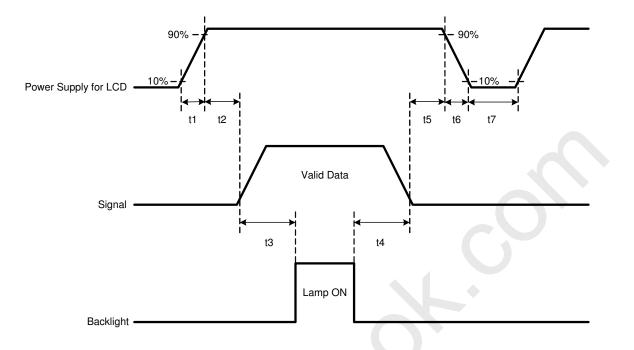
The brightness of each primary color (red, green and blue) is based on the 8 bit gray scale data input for the color; the higher the binary input, the brighter the color. The table below provides a reference for color versus data input.

COLOR DATA REFERENCE

			Input Color Data																						
Color			RED						GREEN					BLUE											
		MS	В							MS	В							MSB							
		LSI	3							LSE	3							LS	в						
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	B6	B5	B4	B3	B2	B1	B0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red(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
	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								Μ																	
	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



AUO 3-6 Power Sequence



Parameter		Units		
	Min.	Тур.	Max.	
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.

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 back-light turns off, the display may momentarily become abnormal screen.



3-7 Backlight Power Specification for LCD Module

Electrical specification

Item	Symb		Condition		Spec		Unit	Note
item	Symu		Condition	Min	Тур	Max	Unit	Note
Input Voltage	VDDE	3		21.6	24.0	26.4	VDC	
Input Current	IDDB	5	VDDB=24V		5.17	5.5	ADC	1
Input Power	PDDE	3	VDDB=24V		124	136	W	1
Inrush Current	IRUSI	4	VDDB=24V			8.5	ADC	1,2
On/Off Control Voltage	VBLON	ON	VDDB=24V	2.0		5.0	VDC	
On/Off Control Voltage	VELON	OFF	VDDB=24V	0.0		0.8	VDC	
On/Off Control Current	IBLON	N	VDDB=24V	0.0		1.5	mADC	
Dimming Control Voltage	VDIM	MAX	VDDB=24V	ł	3.3		VDC	
Dimining Control Voltage	VDIN	MIN	VDDB=24V		0.0		VDC	
Dimming Control Current	I_DIM	MIN	VDDB=24V	1		1.5	mADC	
Internal Dimming Ratio	DIM_R			20		100	%	
PWM Function	V PWM	MAX		3.3		5.0	VDC	
	V_F VVIVI	MIN		0.0		0.8	VDC	
External PWM Control		M				1.5	mADC	
Current	I_EPWM					1.5	MADC	
External PWM Ratio (Duty)	D_EPW	/M		10		100	%	3
External PWM Frequency	F_EPW	/M		120	180	300	Hz	

 $(Ta=25\pm5^{\circ}C, Turn \text{ on for 45minutes})$

Note

- 1. VDIM= 3.3V (MAX)
- 2. Measurement condition Rising time = 20 ms (VDDB : 10%~90%);
- 3. (a) Uniformity and flicker do not guarantee below 20% dimming control.

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

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0

 $\langle p \rangle$



CN1: CI0114M1HRL-LF (Cvilux)

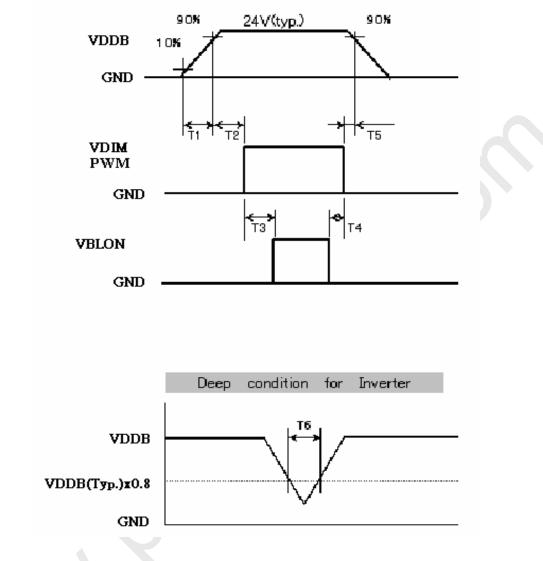
No	Signal Name	Feature
1	VDDB	DC input 24V VDC
2	VDDB	DC input 24V VDC
3	VDDB	DC input 24V VDC
4	VDDB	DC input 24V VDC
5	VDDB	DC input 24V VDC
6	GND	Ground
7	GND	Ground
8	GND	Ground
9	GND	Ground
10	GND	Ground
4.4	Ctatus Eurotian	Panel status detect
11	Status Function	(Normal=0~ 0.8V, Abnormal=Open collector)
12	VBLON	BL ON/OFF (OFF=0~ 0.8V, ON=3.3~5.0V)
10	Internel DW/M	Internal PWM (3.3V,100% duty)for 100%
13	Internal PWM	< NC ; when External PWM >
14	External PWM	External PWM (10%~100%)
14		< NC ; when internal PWM >

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0







Parameter		Units		
	Min.	Тур.	Max.	
Ť1	20	-	-	Ms
T2	50	-	-	Ms
Т3	0	-	-	Ms
T4	0	-	-	Ms
Т5	0	-	-	Ms
T6	-	-	10	Ms

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0

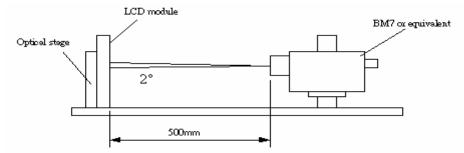




4. Optical Specification

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° .

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



Parameter		Sym	bol		Values		Units	Notes
				Min.	Тур.	Max.		
Contrast Ratio		CF	1	2400	3000			1
Surface Luminance, white		LW	Η	360	450	$\boldsymbol{\mathcal{P}}$	cd/mឺ	2
Luminance \	/ariation	δ_{white}	9 p			1.30		3
Response G to G time		Тү	/		6.5	8	ms	4
Color Gamu	t	NTS	SC		72		%	
Color Coord	inates							
	RED	R۶			0.64			
		Ry	·	-	0.33			
	GREEN	G,	<	-	0.29			
		G	(Tur 0.00	0.60	Turn . 0.00		
	BLUE	B _x	(-Typ0.03	0.15	Тур.+0.03		
		B _Y	,	-	0.06			
	WHITE	W ₂	<	-	0.28			
		W	ŕ		0.29			
Viewing Ang	le							
x axis, r	ight(φ=0°)	θ _r			89		degree	5
x axis, le	eft(φ=180°)	θι			89			
y axis, u	ıp(φ=90°)	θι			89			
y axis, c	lown (φ=0°)	θ _d			89			

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





Note:

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

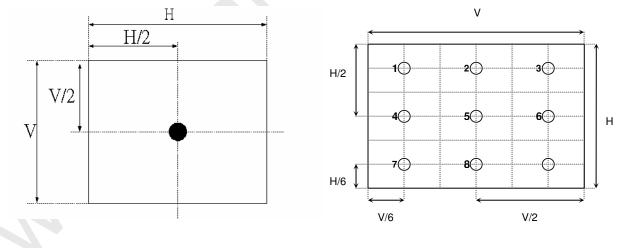
Contrast Ratio= Surface Luminance of L_{on5} Surface Luminance of L_{off5}

Surface luminance is luminance value at point 5 across the LCD surface 50cm from the surface with all pixels displaying white. From more information see FIG 2. When VDDB = 24V, IDDB = 5A, L_{WH} =Lon5, where Lon5 is the luminance with all pixels displaying white at center 5 location.

- The variation in surface luminance, δWHITE is defined (center of Screen) as: δ_{WHITE(9P)} = Maximum(L_{on1}, L_{on2},...,L_{on9})/ Minimum(L_{on1}, L_{on2},...L_{on9})
- 3. Response time T_Y 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%	

4. 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.

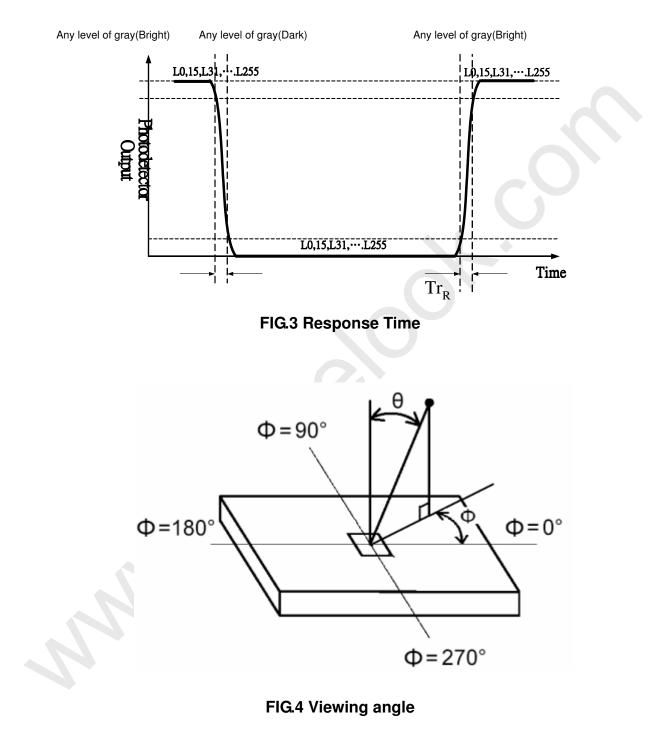








The response time is defined as the following figure and shall be measured by switching the input signal for "any level of gray(bright) " and "any level of gray(dark)".



©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





5. Mechanical Characteristics

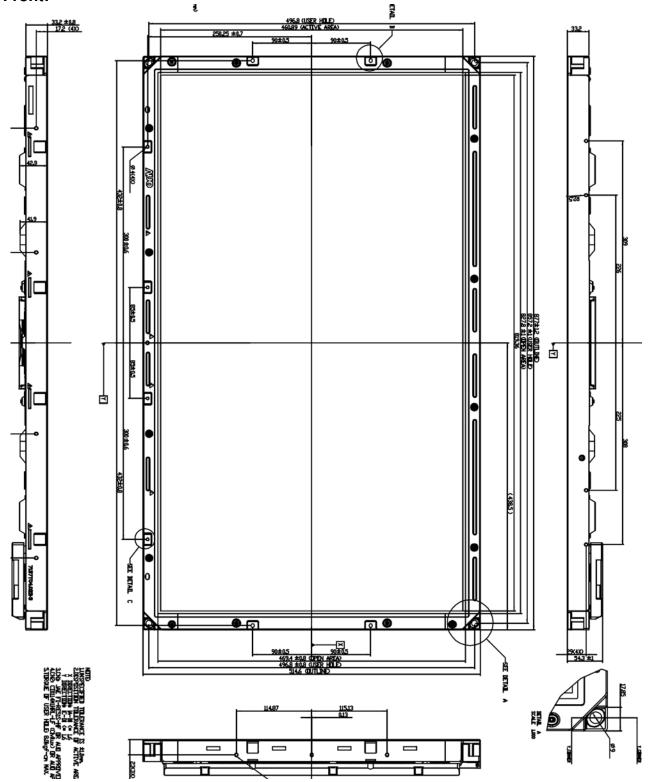
The contents provide general mechanical characteristics for the model T370XW02 VC02. In addition the figures in the next page are detailed mechanical drawing of the LCD.

Horizontal	877.0mm	
Vertical	514.6mm	
Depth	54.3mm(with Inverter)	
Horizontal	827.8mm	
Vertical	469.4mm	
Horizontal	819.6mm	
Vertical	460.8mm	
8500g Typ.		
AG SR6, 3H		
	Vertical Depth Horizontal Vertical Horizontal Vertical 8500g	

 \oslash



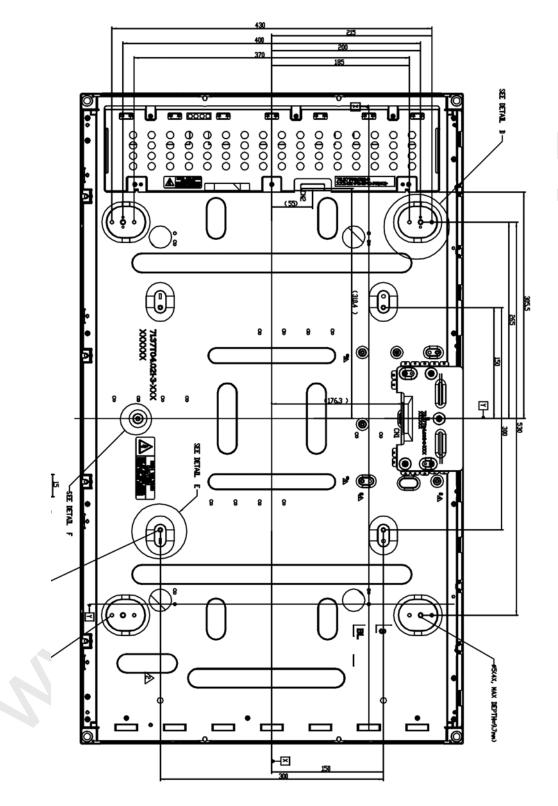
Front:



 \oslash



Back:



©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





6. Reliability:

Environment test condition

No	Test Item	Condition		
1	High temperature storage test	Ta=60℃ 300h		
2	Low temperature storage test	Ta= -20°C 300h		
3	High temperature operation test	Ta=50℃ 300h		
4	Low temperature operation test	Ta=-5℃ 300h		
5	Vibration test (non-operating)	Wave form: random Vibration level: 1.5G RMS Bandwidth: 10-300Hz, Duration: X, Y, Z 30min One time each direction		
6	Shock test (non-operating)	Shock level: 50G Waveform: half since wave, 11ms Direction: $\pm X$, $\pm Y$, $\pm Z$ One time each direction		
7	Vibration test (with carton)	Wave form: random Vibration level: 1.5G RMS Bandwidth: 10-200Hz, Duration: X, Y, Z 30min One time each direction		
8	Drop test (with carton)	Height: 38.0cm 1 corner, 3 edges, 6 surfaces (ASTMD4169-I)		

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





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. 950-95/60950 Third Edition, Canadian Standards Association,

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 Electrotechnical Standardization (CENELEC)

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

7-2. EMC

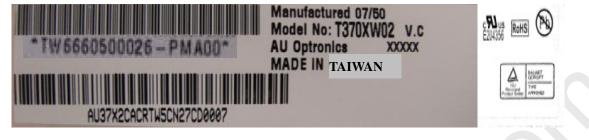
- a) ANSI C63.4 "Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electrical Equipment in the Range of 9kHz to 40GHz. "American National standards Institute(ANSI), 1992
- b) C.I.S.P.R "Limits and Methods of Measurement of Radio Interface Characteristics of Information Technology 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 Electrotechnical Standardization. (CENELEC), 1998





8. Packing

Panel label:



TW6660500026-PMA00

TW6660: T: Taiwan, A/B: China 00026: Panel Serial Number PM0: AUO internal code Manufactured 07/50: 2007 week 50 Made In Taiwan: Taiwan made

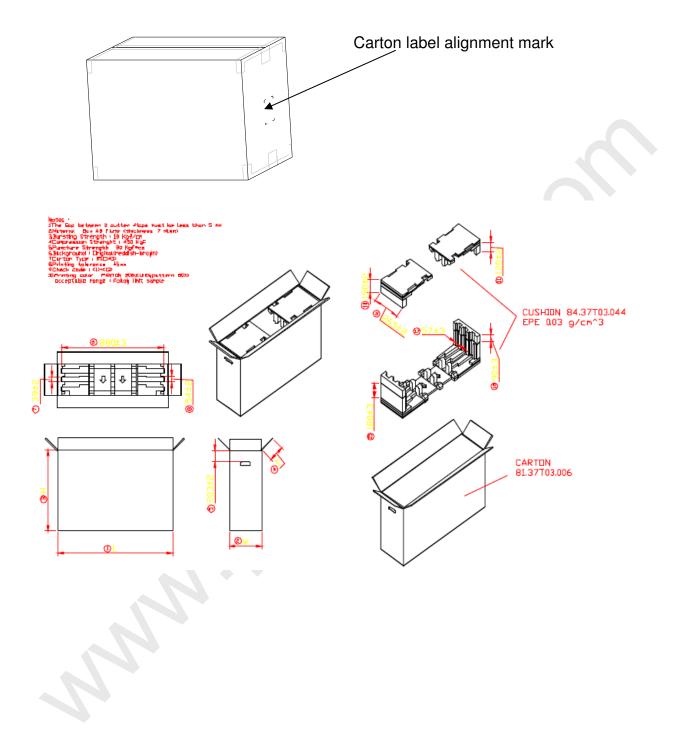
Carton Label:







Carton:



©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

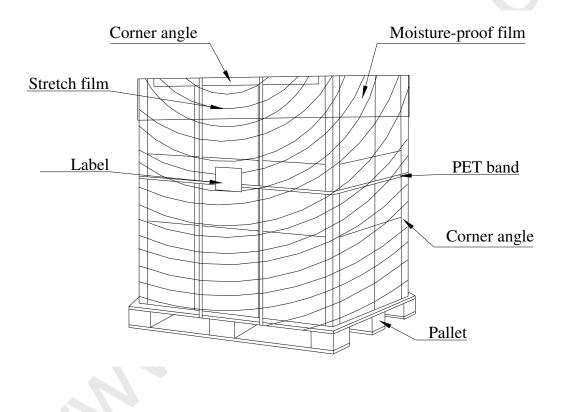
T370XW02 VC02 Ver0.0





Pallet and Shipment information

	ltem		Packing			
		Qty.	Qty. Dimension		Remark	
1	Packing BOX	3pcs/box	965(L)mm*280(W)mm*610(H)mm	35.8		
2	Pallet	1	1190(L)mm*900(W)mm*120(H)mm	10		
3	Boxes per Pallet	8 boxes/P	boxes/Pallet			
4	Panels per Pallet 24pcs/pallet					
	Pallet after	24	1190(L)mm*900(W)mm*1290(H)mm			
	packing					



©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





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. You should adopt radiation structure to satisfy the temperature specification. 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.

- (4) 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.)
- (5) 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.
- (6) Wipe off saliva or water drops as soon as possible. Their long time contact with polarizer causes deformations and color fading.
- (7) 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 The spike noise causes the mis-operation of circuits. It should be lower than following voltage: V=±200mV(Over and under shoot voltage)
- (2). Response time depends on the temperature. (In lower temperature, it becomes longer..) 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.
- (3) 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.

T370XW02 VC02 Ver0.0

(4) When fixed patterns are displayed for a long time, remnant image is likely to occur.

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed





(5) 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.

- 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.

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0





Appendix - A

Item	Min	Тур	Max	Unit
EMI level (Note)			-6	dB(µV/m)
SSCG		300		ps

1. EMI specification

Model name: T370XW02 VC02

Note:

- (2) Criteria: CISPR22
- (3) Signal generator: PSG400 (Sony EMCS)
- (4) EMI site: Sony EMCS Ichinomiya Tec. or using correlation value
- (5) Find result should be checked by connecting with TV-set

©Copyright AU Optronics, Inc. Jun, 2005 All Rights Reserved. No Reproduction and Redistribution Allowed

T370XW02 VC02 Ver0.0