

Model Name: T260HW01 V0 SKD

Model Nai	me: T	260HW01 V0 SI	KD
Is	sue Dat	e : 2013/6/14	4/120
		ry Specifications cifications	13/00
Customer Signature	Date	AUO VS	Date
Approved By Note	or TBC	Approval By PM Director Reviewed By RD Director Reviewed By Project Leader	
MO Confident,		Prepared By PM Lydia Liur	

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RECORD OF REVISION

Version	Date	Page	Description
1.0	2013/6/14		First release
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1. General Description

This specification applies to the 26.0 inch Color TFT-LCD SKD model T260HW01 V0. This Open Cell Unit has a TFT active matrix type liquid crystal panel 1920x1080 pixels, and diagonal size of 26.0 inch. This Open Cell Unit supports 1920x1080 mode. 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 2013/06/14 each dot.

* General Information

Items	Specification	Unit	Note
Active Screen Size	26.02	inch	
Display Area	576.0 (H) x 324.0 (V)	mm _	
Outline Dimension	599.32 (H) X363.56 (V) x 1.82 (D)	mm	D: cell thickness
Driver Element	a-Si TFT active matrix	150	
Display Colors	8 bit, 16.7M	Colors	
Number of Pixels	1,920x1,080	Pixel	
Pixel Pitch	0.3 (H) x 0.3 (W)	mm	
Pixel Arrangement	RGB Horizontal stripe		
Display Operation Mode	Normally Black		
Surface Treatment	Anti-Glare, 3H		Haze=11%
Weight	0.7kg	g	
Rotate Function	Unachievable		Note 1
Display Orientation	Signal input with "ABC"		Note 2

Note 1: Rotate Function refers to LCD display could be able to rotate. Note 2: LCD display as below illustrated when signal input with "ABC".

> Front side Rear side

Tcon board

ABC



2. Absolute Maximum Ratings

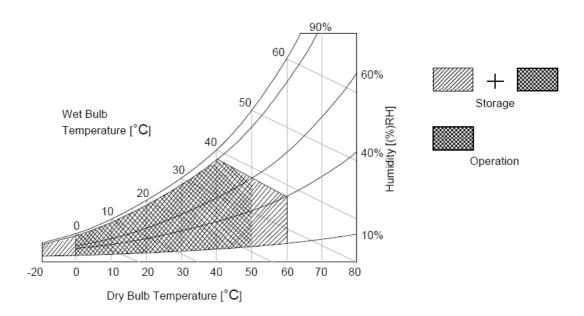
The followings are maximum values which, if exceeded, may cause faulty operation or damage to the unit

Item	Symbol	Min	Max	Unit	Conditions				
Logic/LCD Drive Voltage	V_{DD}	-0.3	14	[Volt] DC	Note 1				
Input Voltage of Signal	Vin	-0.3	4	[Volt] _{DC}	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: 50 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 T260HW01 V0 Open Cell Unit requires power input which is employed to power the LCD electronics and to drive the TFT array and liquid crystal.

3.1 Electrical Characteristics

3.1.1 DC Characteristics

Parameter	Symbol		Value		Linit	Note
i arameter	Symbol	Min.	Тур.	Max	Offic	NOLE
				_	3	
ply Input Voltage	V _{DD}	10.8	12	13.2	V _{DC}	
ply Input Current	I _{DD}		0.52	\0.57	Α	1
sumption	P _C		6.24	6.84	Watt	1
ent	I _{RUSH}		90	4	Α	2
Ripple of Power Supply Input Voltage	V_{RP}) -	V _{DD} * 5%	mV_{pk-pk}	3
Differential Input High Threshold Voltage	V _{TH}	100		+100	mV_{DC}	4
Differential Input Low Threshold Voltage	V _{TL}	-100			mV _{DC}	4
Input Common Mode Voltage	V _{ICM}	1.1	1.25	1.4	V_{DC}	4
Input High Threshold Voltage	V _{IH} (High)	2.7		3.3	V_{DC}	5
Input Low Threshold Voltage	V _{IL} (Low)	0		0.6	V_{DC}	5
onfidential for						
	oly Input Current sumption ent Ripple of Power Supply Input Voltage Differential Input High Threshold Voltage Differential Input Low Threshold Voltage Input Common Mode Voltage Input High Threshold Voltage	poly Input Voltage poly Input Current sumption PC ent Ripple of Power Supply Input Voltage Differential Input High Threshold Voltage Differential Input Low Threshold Voltage Input Common Mode Voltage Input High Threshold Voltage Input High Threshold Voltage Input Low Threshold Voltage	Differential Input Low Threshold Voltage Differential Input High Threshold Voltage Input Common Mode Voltage Min. Min. Min. Min. Min. No. Min. No. 100 10.8 100 100 100 No. 100 100 No. 100 No. 100 100 100 100 100 100 100 1	Parameter Symbol Min. Typ. Dily Input Voltage Poly Input Current Input Current Input Current Ripple of Power Supply Input Voltage Differential Input High Threshold Voltage Differential Input Low Threshold Voltage Input Common Mode Voltage Vich Input High Threshold Voltage Vich Input Low Threshold Voltage Input Low Threshold Voltage	Name	Name



3.1.2 AC Characteristics

	Parameter	Symbol		Value		Unit	Note
	raiametei	Symbol	Min.	Тур.	Max	o iii	Note
	Input Channel Pair Skew Margin (only for TCON: 12403U1, 12405)	t _{SKEW (CP)}	-500		+500	ps	6
LVDS Interface	Receiver Clock : Spread Spectrum Modulation range	Fclk_ss	Fclk -3%		Fclk +3%	MHz	A
	Receiver Clock : Spread Spectrum Modulation frequency	Fss	30		200	KHZO	7
	Receiver Data Input Margin Fclk = 85 MHz Fclk = 65 MHz	tRMG	-0.4 -0.5		0.4	ns	8

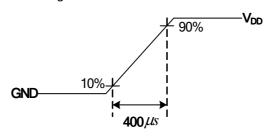
3.1.3 DRIVER CHARACTERISTICS

	ı		()	<u> </u>	
Item	Symbol	Min	Max	Unit	condition
Driver Surface Temperature	DST		100	[℃]	Note
Note : Any point on the driver su	ırface must	be less than	100℃ under a	ny condition	ons.
ANO CORLIDENTIA		17/6			
Allo Confrident					

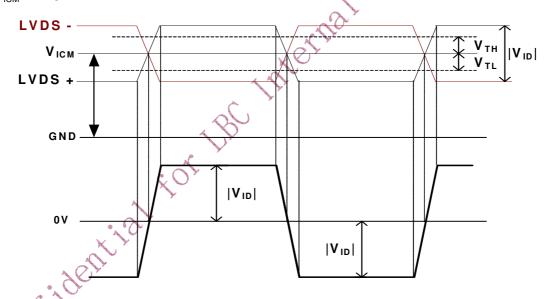


Note:

- 1. Test Condition:
 - (1) $V_{DD} = 12.0V$
 - (2) Fv = 60Hz
 - (3) Fclk= Max freq.
 - (4) Temperature = 25 °C
 - (5) Typ. Input current : White Pattern
- 2. Measurement condition: Rising time = 400us



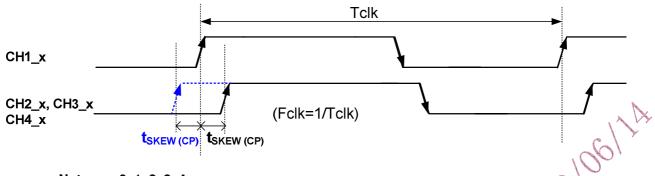
- 3. Test Condition:
- 4/2013/06/14 (1) The measure point of V_{RP} is in LCM side after connecting the System Board and LCM.
 - (2) Under Max. Input current spec. condition.
- **4.** $V_{ICM} = 1.25V$



5. The measure points of V_{IH} and V_{IL} are in LCM side after connecting the System Board and LCM.

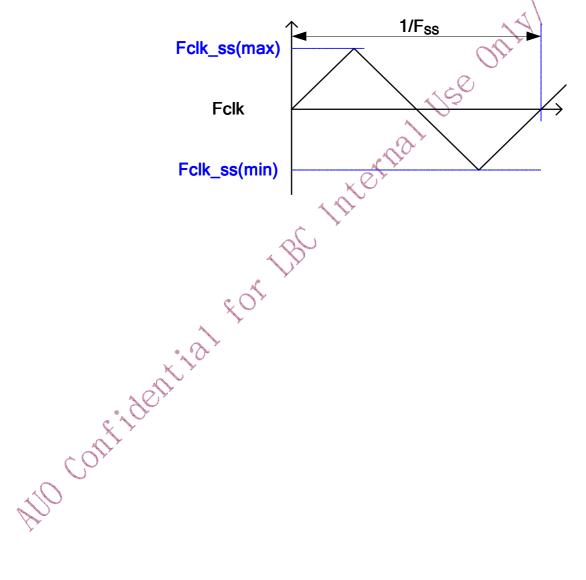


6. Input Channel Pair Skew Margin.



Note: x = 0, 1, 2, 3, 4

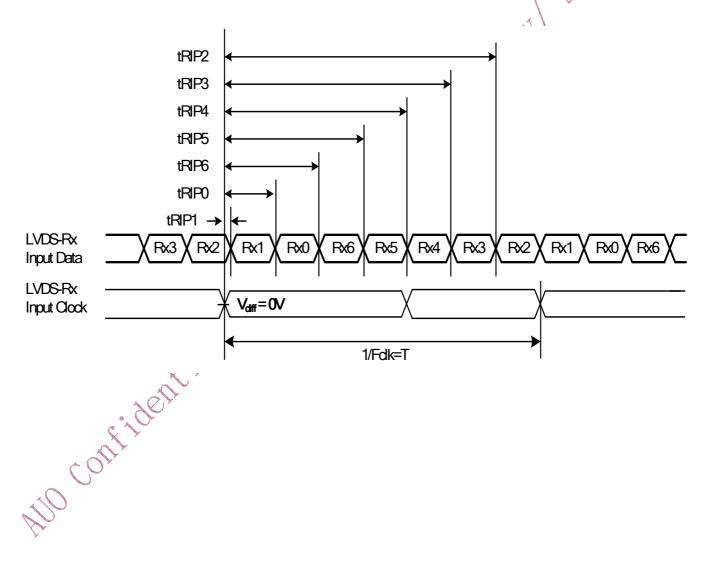
7. LVDS Receiver Clock SSCG (Spread spectrum clock generator) is defined as below figures.





8. Receiver Data Input Margin

Parameter	Symbol		Rating								
Parameter	Symbol	Min	Туре	Max	Unit	Note					
Input Clock Frequency	Fclk	Fclk (min)		Fclk (max)	MHz	T=1/Fclk					
Input Data Position0	tRIP1	- tRMG	0	tRMG	ns						
Input Data Position1	tRIP0	T/7- tRMG	T/7	T/7+ tRMG	ns						
Input Data Position2	tRIP6	2T/7- tRMG	2T/7	2T/7+ tRMG	ns	17/2					
Input Data Position3	tRIP5	3T/7- tRMG	3T/7	3T/7+ tRMG	ns	-6/2					
Input Data Position4	tRIP4	4T/7- tRMG	4T/7	4T/7+ tRMG	ns	00.					
Input Data Position5	tRIP3	5T/7- tRMG	5T/7	5T/7+ tRMG	ns	\					
Input Data Position6	tRIP2	6T/7- tRMG	6T/7	6T/7+ tRMG	ns						





3.2 Interface Connections 3.2.1 T-Con Board Pin Map

● LCD connector:187059-51221 (P-TWO, LVDS connector)

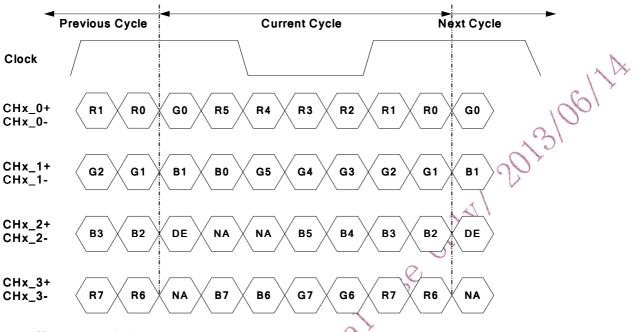
Mating connector:

PIN	Symbol	Description	PIN	Symbol	Description
1	GND	Ground	26	GND	Ground
2	N.C.	No connection	27	GND	Ground
3	Reserved	AUO Internal Use Only	28	CH2_0-	LVDS Channel 2, Signal 0-
4	Reserved	AUO Internal Use Only	29	CH2_0+	LVDS Channel 2, Signal 0+
5	N.C.	No connection	30	CH2_1-	LVDS Channel 2, Signal 1-
6	Reserved	AUO Internal Use Only	31	CH2_1+	LVDS Channel 2, Signal 1+
7	LVDS_SEL	Open/High(3.3V) for NS, Low(GND) for JEIDA	32	CH2_2-	LVDS Channel 2, Signal 2-
8	Reserved	AUO Internal Use Only	33	CH2_2+	LVDS Channel 2, Signal 2+
9	Reserved	AUO Internal Use Only	34	GND	Ground
10	Reserved	AUO Internal Use Only	35	CH2_CLK-	LVDS Channel 2, Clock -
11	GND	Ground	36	CH2_CLK+	LVDS Channel 2, Clock +
12	CH1_0-	LVDS Channel 1, Signal 0-	37	GND	Ground
13	CH1_0+	LVDS Channel 1, Signal 0+	38	CH2_3-	LVDS Channel 2, Signal 3-
14	CH1_1-	LVDS Channel 1, Signal 1-	39	CH2_3+	LVDS Channel 2, Signal 3+
15	CH1_1+	LVDS Channel 1, Signal 1+	40	Reserved	AUO Internal Use Only
16	CH1_2-	LVDS Channel 1, Signal 2-	41	Reserved	AUO Internal Use Only
17	CH1_2+	LVDS Channel 1, Signal 2+	42	GND	Ground
18	GND	Ground	43	GND	Ground
19	CH1_CLK-	LVDS Channel 1, Clock -	44	GND	Ground
20	CH1_CLK+	LVDS Channel 1, Clock +	45	GND	Ground
21	GND	Ground	46	GND	Ground
22	CH1_3-	LVDS Channel 1, Signal 3-	47	N.C.	No connection
23	CH1_3+	LVDS Channel 1, Signal 3+	48	V_{DD}	Power Supply, +12V DC Regulated
24	Reserved	AUO Internal Use Only	49	V_{DD}	Power Supply, +12V DC Regulated
25	Reserved	AUO Internal Use Only	50	V_{DD}	Power Supply, +12V DC Regulated
	COL		51	V_{DD}	Power Supply, +12V DC Regulated



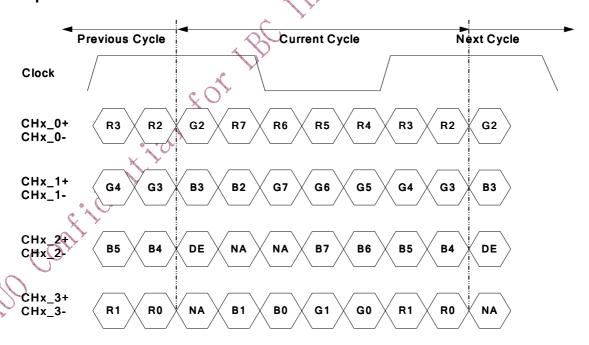
3.2.2 LVDS Option

LVDS Option = High/Open→NS



Note: x = 1, 2, 3, 4...

LVDS Option = Low→JEIDA



Note: x = 1, 2, 3, 4...



3.3 Signal Timing Specification

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)

Signal	Item	Symbol	Min.	Тур.	Max	Unit
	Period	Tv	1090	1125	1480	Th
Vertical Section	Active	Tdisp (v)		1080	\$	
	Blanking	Tblk (v)	10	45	400	Th
	Period	Th	1030	1100	1325	Tclk
Horizontal Section	Active	Tdisp (h)		960 🤇	6	Tclk
	Blanking	Tblk (h)	70	140	365	Tclk
Clock	Frequency	Fclk=1/Tclk	50	74.25	82	MHz
Vertical Frequency	Frequency	Fv	47	60	63	Hz
Horizontal Frequency	Frequency	Fh	60 🗸	67.5	73	KHz

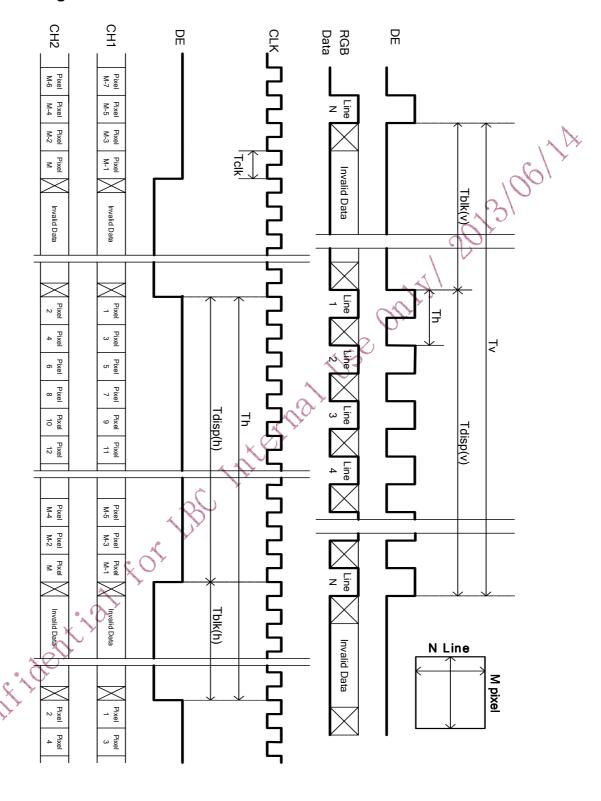
Notes:

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

 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.
- (2) 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 1st DE is displayed at the top line of screen.
- (3) If a period of DE "High" is less than 1920 DCLK or less than 1080 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

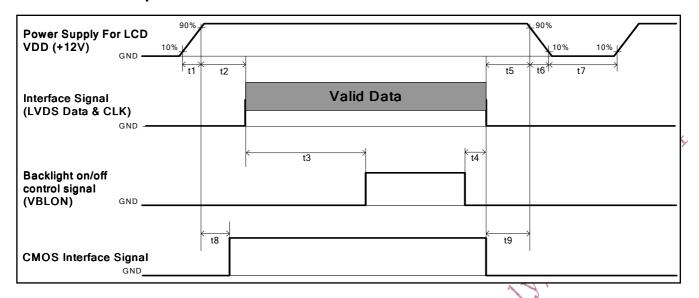
The brightness of each primary color (red, green and blue) is based on the 8 bit gray scale data input for the color; the higher the binary input, the brighter the color. The table below provides a reference for color versus data input.

COLOR DATA REFERENCE

											I	npu	t Co	olor I	Data	a									
	Color				RI	ΞD							GRI	EEN	l			BLUE							
	Ooloi	MS	В					LS	SB	MSB					LS	B	MS	1SB					LSB		
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	B7	B6	B5	B4	ВЗ	B2	B1	B0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	\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	Q	A	1	1	1	1	1	1	1
Color	Cyan	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	Jr,	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	1	1	0	0	0	0	0	ይ	0	0	1	1	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1 ,	46	7	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	.07	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	Ō	0	0	0	0	0	0	0	0	0	0	0	0	0
R									2 8																
	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	1Ç	A.	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
G			À		*																				
	GREEN(254)	0	٥,	o	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0
	GREEN(255)	Ø	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
В		7		,,,,,,,,,,,,,,,,,,												9000000000									
	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
212	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



Davagastav		l locia		
Parameter	Min.	Type.	Max.	Unit
t1	0.4	1	30	ms
t2	0.1		50	ms
t3	300	x ©		ms
t4	0*1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		ms
t5	0			ms
t6	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		*2 	ms
t7	500			ms

Note:

(1) t4=0: concern for residual pattern before BLU turn off.

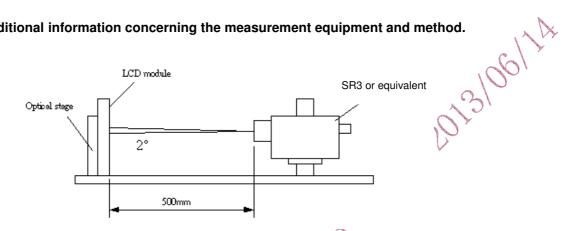
(2) t6 : voltage of VDD must decay smoothly after power-off. (customer system decide this value)



4. Optical Specification

Optical characteristics are determined after the open cell unit and light source has been 'ON' and stable for approximately 45 minutes in a dark environment at 25 ℃. 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 presents additional information concerning the measurement equipment and method.



			A \	~)			
Parameter	Symbol	Condition	Values			Lloit	Notos
Farameter	Symbol	Condition	Min.	Тур.	Max	Unit	Notes
Contrast Ratio	CR	25	3200	4000			1, 2
White Variation	δ _{WHITE(9P)}	With AUO Module			1.3		1, 3
Response Time (G to G)	Тγ	177		8		ms	4
Color Chromaticity		20					5
Red	R _X			0.640]
	R _Y	5		0.330]
Green Blue	G _X	With AUO Module	Тур0.03	0.281	-Тур.+0.03		
	G _Y			0.590]
	B _X			0.144]
100	B _Y			0.060			
White	W _X			0.280			
× ×	W_{Y}			0.290]
Viewing Angle							1, 6
x axis, right(φ=0°)	θ_{r}			89		degree]
x axis, left(φ=180°)	θι	With AUO Module		89		degree]
y axis, up(φ=90°)	θ_{u}			89		degree]
y axis, down (φ=270°)	θ_{d}			89		degree	

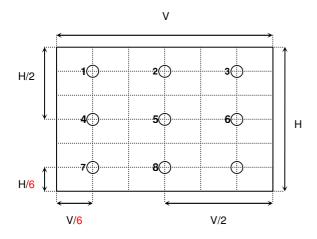
- 1. Light source here is the BLU of AUO T260HW01 V0 module.
- 2. Contrast Ratio (CR) is defined mathematically as:



Surface Luminance of Lon5 Contrast Ratio= Surface Luminance of Loff5

3. The white variation, δWHITE is defined as:

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



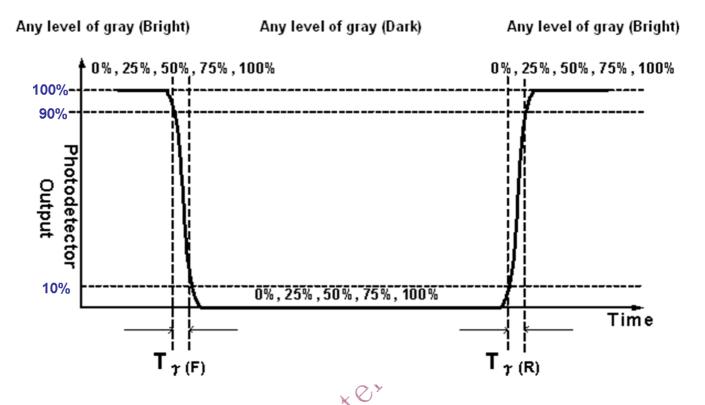
01114 2013 06 11 A with 4. Response time Ty is the average time required for display transition by switching the input signal for five luminance ratio (0%,25%,50%,75%,100% brightness matrix) and is based on F_v=60Hz to optimize.

Ме	asured	Target					
Response Time		0%	25% _× ②	50%	75%	100%	
	0%		0% to 25%	0% to 50%	0% to 75%	0% to 100%	
Start	25%	25% to 0%		25% to 50%	25% to 75%	25% to 100%	
	50%	50% to 0%	50% to 25%		50% to 75%	50% to 100%	
	75%	75% to 0%	75% to 25%	75% to 50%		75% to 100%	
	100%	100% to 0%	100% to 25%	100% to 50%	100% to 75%		

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)". ANO CORFIDERY



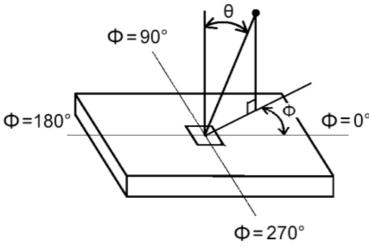
FIG.3 Response Time



- 5. Light source here is the standard light source "C" which is defined by CIE and driving voltages are based on suitable gamma voltages. The calculating method is as following:
 - A. Measure the "Module" and "BLU" optical spectrums (W, R, G, B).
 - B. Calculate cell spectrum from "Module" and "BLU" spectrums.
 - C. Calculate color chromaticity by using cell spectrum and the spectrum of standard light source "C".
- 6. 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.



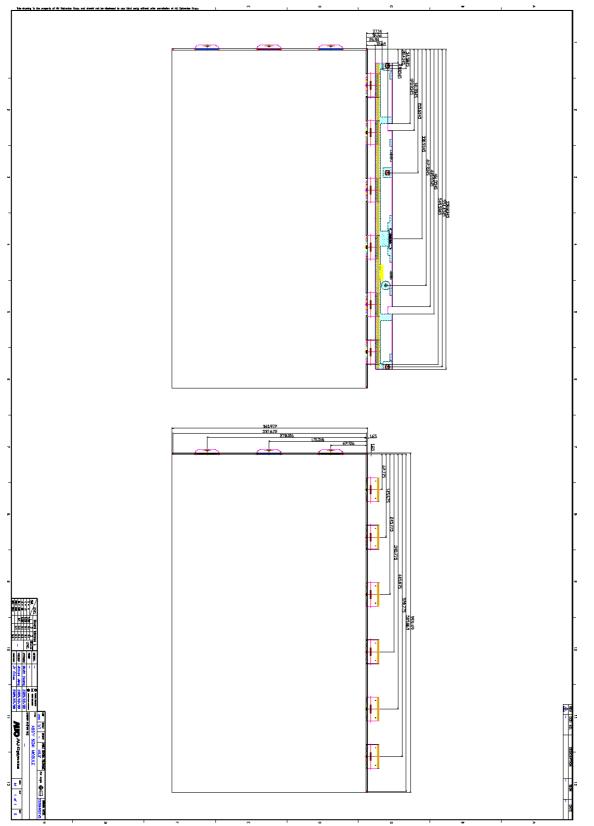
FIG.4 Viewing Angle



NO Confidential For IRC Internal Use Only Palishop II.



5. Mechanical Characteristics



Alig



6. Packing

Open cell shipping label (35*7mm)



3

- 1. S/N Number
- 2. AUO internal use
- 3. Manufactured week
- 4. Model name

Carton Label:

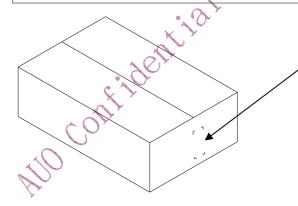


MODEL NO: T260HW01 V0 PART NO: 91.26T09.0XX

CUSTOMER NO: xxxxx-xxxxx-xxxxx

CARTON NO:

Made in XXXXXX

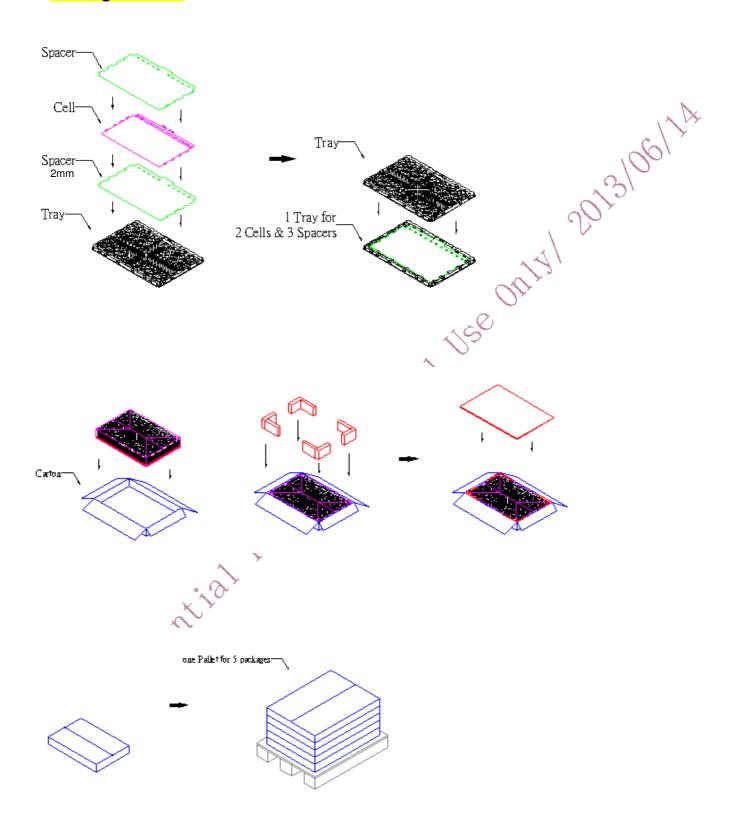


Carton label location

RoHS



Packing Process:



Carton: 1130(L)mm*790(W)mm*245(H)mm

Pallet: 1150mm*840mm*138mm



7. Precautions

Please pay attention to the followings when you use this TFT LCD Open Cell unit and strongly recommended to contact AUO if module process advice is required.

7.1 Mounting Precautions

- (1) You should consider the mounting structure so that uneven force (ex. Twisted stress) is not applied to the cell. And the frame on which a cell is mounted should have sufficient strength so that external force is not transmitted directly to the cell.
- (2) 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.
- (3) You should adopt radiation structure to satisfy the temperature specification.
- (3) 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.

7.2 Operating Precautions

- (1) The open cell unit 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/transmittance 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.

7.3 Electrostatic Discharge Control

Since a open cell unit 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.



7.4 Precautions for Strong Light Exposure

Strong light exposure causes degradation of polarizer and color filter.

7.5 Storage

When storing open cell units as spares for a long time, the following precautions are necessary.

- (1) Store them in a dark place. Do not expose the open cell unit to sunlight or fluorescent light. Keep the temperature between 5℃ and 35℃ 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.

7.6 Handling Precautions for Protection Film of Polarizer

The protection film of polarizer is still attached on the surface as you receive open cell units. When the protection film is peeled off, static electricity is easily generated on the polarizer surface. 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.