

- ( ) Preliminary Specifications( V ) Final Specifications

Module	13.1" FHD 16:9 Color TFT-LCD with LED Backlight design
Model Name	B131HW02 V0 (H/W:0A)
Note	LED Backlight with driving circuit design

Customer	Date
Checked & Approved by	Date
Note: This Specification is without notice.	s subject to change

Approved by	Date			
WesHsiang Lo	<u>2011/11/04</u>			
Prepared by	Date			
Michael WJ Sun	<u>2011/11/04</u>			
NBBU Marketing Division AU Optronics corporation				



# **Contents**

1.	. Handling Precautions	
	. General Description	
	2.1 General Specification	
	2.2 Optical Characteristics	6
3.	. Functional Block Diagram	11
	. Absolute Maximum Ratings	
	4.1 Absolute Ratings of TFT LCD Module	12
	4.2 Absolute Ratings of Environment	12
5.	. Electrical Characteristics	13
	5.1 TFT LCD Module	13
	5.2 Backlight Unit	14
6.	. Signal Interface Characteristic	14
	6.1 Pixel Format Image	14
	6.2 Integration Interface Requirement	15
	6.3 Interface Timing	17
	6.4 Power ON/OFF Sequence	19
7.	. Panel Reliability Test	20
	7.1 Reliability Test	20
8.	. Mechanical Characteristics	21
	8.1 LCM Outline Dimension	21
9.	. Shipping and Package	23
	9.1 Shipping Label Format	23
	9.2 Carton Package	24
	9.3 Shipping Package of Palletizing Sequence	25
10	0. Appendix	26
	10.1 EDID Description	26



# **Record of Revision**

Ver	Version and Date Page Old description		Old description	New Description	Remark
0.1	2010/09/01	AII	First Edition for Customer		
0.2	2010/10/18	26	Old EDID setting	New EDID setting	Revised
1.0	2010/12/17	All	N/A	Final Spec	
1.1	2011/08/30	5	Glass Thickness: 0.5mm	Glass Thickness: 0.21mm*2=0.42mm	Revised
1.2	2011/11/04	12		Max Current capacity = 4.0A	
1.2	2011/11/04	12		Max LED input reverse voltage = 5V	
1.2	2011/11/04	12		Max LED input forward current = 30mA	



AU OPTRONICS CORPORATION

### 1. Handling Precautions

- 1) Since front polarizer is easily damaged, pay attention not to scratch it.
- 2) Be sure to turn off power supply when inserting or disconnecting from input connector.
- 3) Wipe off water drop immediately. Long contact with water may cause discoloration or spots.
- 4) When the panel surface is soiled, wipe it with absorbent cotton or other soft cloth.
- 5) Since the panel is made of glass, it may break or crack if dropped or bumped on hard surface.
- 6) Since CMOS LSI is used in this module, take care of static electricity and insure human earth when handling.
- 7) Do not open nor modify the Module Assembly.
- 8) Do not press the reflector sheet at the back of the module to any directions.
- 9) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT Module.
- 11)After installation of the TFT Module into an enclosure (Notebook PC Bezel, for example), do not twist nor bend the TFT Module even momentary. At designing the enclosure, it should be taken into consideration that no bending/twisting forces are applied to the TFT Module from outside. Otherwise the TFT Module may be damaged.
- 12) Small amount of materials having no flammability grade is used in the LCD module. The LCD module should be supplied by power complied with requirements of Limited Power Source (IEC60950 or UL1950), or be applied exemption.
- 13) Disconnecting power supply before handling LCD modules, it can prevent electric shock, DO NOT TOUCH the electrode parts, cables, connectors and LED circuit part of TFT module that a LED light bar build in as a light source of back light unit. It can prevent electrostic breakdown.



## 2. General Description

B131HW02 V0 is a Color Active Matrix Liquid Crystal Display composed of a TFT LCD panel, a driver circuit, and LED backlight system. The screen format is intended to support the 16:9 HD, 1920(H) x1080(V) screen and 16.7M colors (RGB 24-bits data driver) with LED backlight driving circuit. All input signals are display port interface compatible.

B131HW02 V0 is designed for a display unit of notebook style personal computer and industrial machine.

## 2.1 General Specification

The following items are characteristics summary on the table at 25 °C condition:

Items	Unit		Specifi	cations			
Screen Diagonal	[mm]	331.76					
Active Area	[mm]	289.152X162.648					
Pixels H x V		1920x3(RG	B) x 1080				
Pixel Pitch	[mm]	0.1506X0.1	506				
Pixel Format		R.G.B. Vert	tical Stripe				
Display Mode		Normally W	/hite				
White Luminance (ILED=19mA) (Note: ILED is LED current)	[cd/m <sup>2</sup> ]	300 typ. (5 points average, gamma correction off) 210 min. (5 points average, gamma correction off)					
Luminance Uniformity		1.82 max. (	9 points)				
Contrast Ratio		500 typ					
Response Time	[ms]	16 typ/ 30 M	Max (gamma	correction of	off)		
Nominal Input Voltage VDD	[Volt]	+2.5 typ.					
Power Consumption	[Watt]	4.65 typ. (Ir	nclude Logic	and Blu pov	wer)		
Weight	[Grams]	158 typ.					
Physical Size	[mm]		Min.	Тур.	Max.		
Include bracket & PCBA		Length	298.6	299.1	299.6		
		Width	183.8	184.3	184.8		
		Thickness 2.35 2.99					
Electrical Interface		eDP 2Lane					
Glass Thickness	[mm]	0.21mm*2=0.42mm					
Surface Treatment		Anti-Glare, Hardness 4H,					



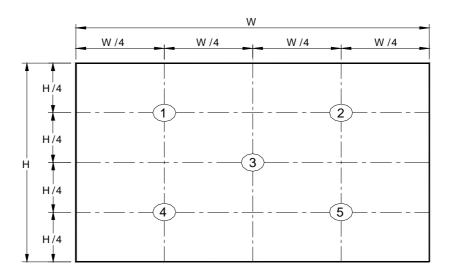
Support Color		16.7M colors ( RGB 24-bit )
Temperature Range Operating Storage (Non-Operating) RoHS Compliance	[°C]	0 to +50 -20 to +60 RoHS Compliance

## 2.2 Optical Characteristics

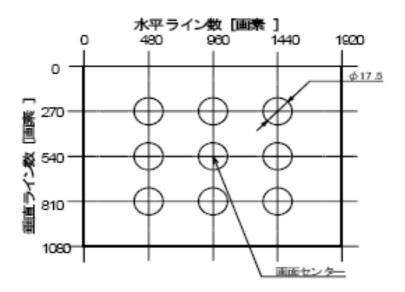
The optical characteristics are measured under stable conditions at 25°C (Room Temperature):

Item	Item Symbol Conditions		Min.	Тур.	Max.	Unit	Note	
White Luminance ILED=19mA			5 points average	210	300	-	cd/m <sup>2</sup>	1, 4, 5.
Viewing Angle		heta r $ heta$ l	Horizontal (Right) CR = 10 (Left)	40 40	55 55	- -	degree	4.0
viewing Ai	igie	<b>ψ</b> н <b>ψ</b> ∟	Vertical (Upper) CR = 10 (Lower)	30 40	50 55	- -		4, 9
Luminance Un	iformity	δ 9Ρ	9 Points	-	-	1.82		2, 3, 4
Contrast R	atio	CR		300	500	-		4, 6
Cross ta	Cross talk					TBD		4, 7
	Response Time		Rising	-	3	6		
Response 7			Falling	-	13	24	msec	4, 8
		$T_{RT}$	Rising + Falling	-	16	30		
	Red	Rx		0.639	0.685	0.731		
	Red	Ry		0.283	0.338	0.394		
	Green	Gx		0.184	0.230	0.276		
Color / Chromaticity	Green	Gy		0.642	0.697	0.753		
Coodinates	Dive	Bx	CIE 1931	0.109	0.155	0.201		4
	Blue	By		0.020	0.076	0.131		
	\\/\b:4-	Wx		0.268	0.311	0.353		
	White	Wy		0.278	0.332	0.387		
Adobe		%		-	96	-		

Note 1: 5 points position (Ref: Active area)



Note 2: 9 points position (Ref: Active area)



**Note 3**: The luminance uniformity of 5 or 9 points is defined by dividing the maximum luminance values by the minimum test point luminance

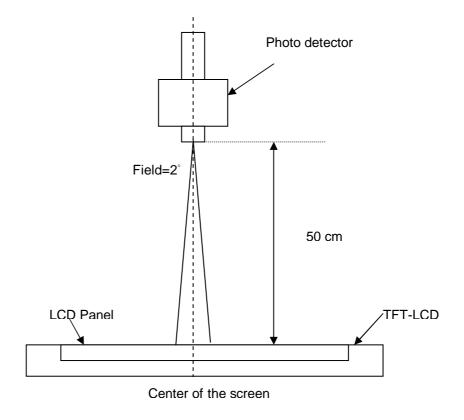
_ 2		Maximum Brightness of five points
$\delta_{W5} =$		Minimum Brightness of five points
2 _ 2		Maximum Brightness of thirteen points
$\delta_{W9} =$		Minimum Brightness of thirteen points

#### Note 4: Measurement method

The LCD module should be stabilized at given temperature for 30 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 60 minutes in a stable, windless and dark room, and it should be measured in the center



of screen.



**Note 5**: Definition of Average Luminance of White (Y<sub>L</sub>):

Measure the luminance of gray level 63 at 5 points  $\cdot$   $Y_L = [L(1) + L(2) + L(3) + L(4) + L(5)] / 5$ L (x) is corresponding to the luminance of the point X at Figure in Note (1).

**Note 6**: Definition of contrast ratio:

Contrast ratio is calculated with the following formula.

Brightness on the "White" state Contrast ratio (CR)= Brightness on the "Black" state

Note 7: Definition of Cross Talk (CT)

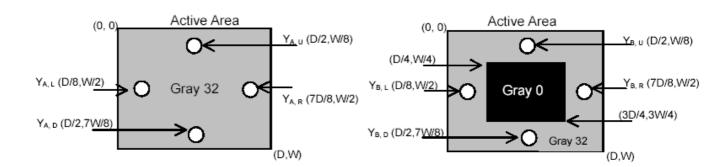
$$CT = |Y_B - Y_A| / Y_A \times 100 (\%)$$

Where

Y<sub>A</sub> = Luminance of measured location without gray level 0 pattern (cd/m<sub>2</sub>)

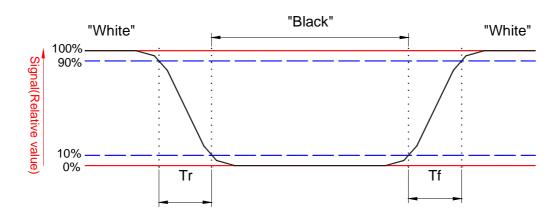
Y<sub>B</sub> = Luminance of measured location with gray level 0 pattern (cd/m<sub>2</sub>)





Note 8: Definition of response time:

The output signals of BM-7 or equivalent are measured when the input signals are changed from "Black" to "White" (falling time) and from "White" to "Black" (rising time), respectively. The response time interval between the 10% and 90% of amplitudes. Refer to figure as below.

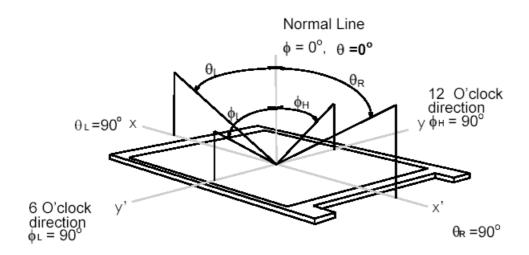




#### AU OPTRONICS CORPORATION

#### Note 9. Definition of viewing angle

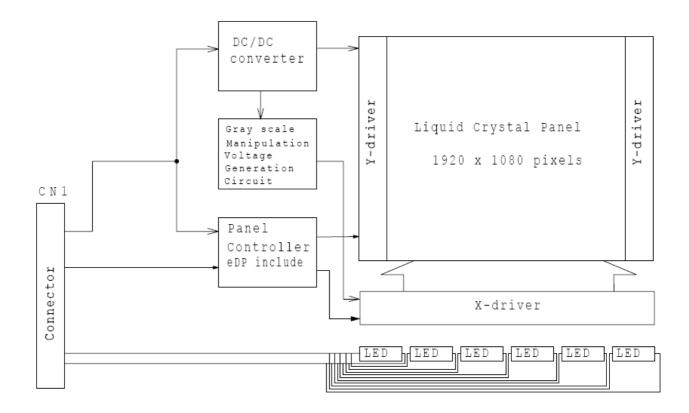
Viewing angle is the measurement of contrast ratio  $\ge$  10, at the screen center, over a 180° horizontal and 180° vertical range (off-normal viewing angles). The 180° viewing angle range is broken down as follows; 90° ( $\theta$ ) horizontal left and right and 90° ( $\Phi$ ) vertical, high (up) and low (down). The measurement direction is typically perpendicular to the display surface with the screen rotated about its center to develop the desired measurement viewing angle.





## 3. Functional Block Diagram

The following diagram shows the functional block of the 13.1 inches wide Color TFT/LCD.



## 4. Absolute Maximum Ratings

An absolute maximum rating of the module is as following:

### 4.1 Absolute Ratings of TFT LCD Module

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive	Vin	-0.3	+3.0	[Volt]	Note 1,2
Current capacity	IDD		4.0	[A]	
LED input reverse	$V_{LED}$		5	[Volt]	Note 1
LED input forward	I <sub>LED</sub>		30	[mA]	Note 1

## 4.2 Absolute Ratings of Environment

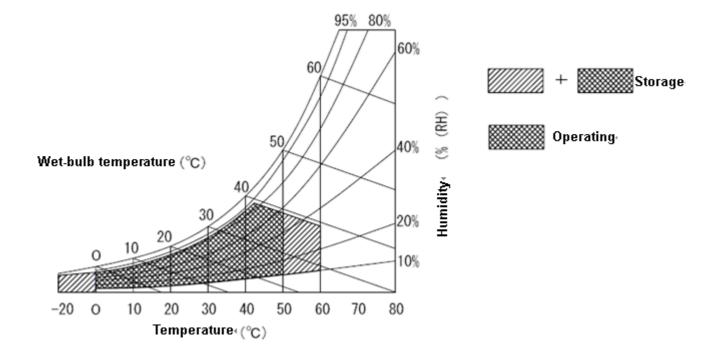
Item	Symbol	Min	Max	Unit	Conditions
Operating Temperature	TOP	0	+50	[°C]	Note 4
Operation Humidity	HOP	10	90	[%RH]	Note 4
Storage Temperature	TST	-20	+60	[°C]	Note 4
Storage Humidity	HST	10	90	[%RH]	Note 4

Note 1: At Ta (25°C)

Note 2: Permanent damage to the device may occur if exceed maximum values

Note 3: LED specification refer to section 5.2

Note 4: For quality performance, please refer to IIS (Incoming Inspection Standard).



### 5. Electrical Characteristics

### **5.1 TFT LCD Module**

### 5.1.1 Power Specification

Input power specifications are as follows;

The power specification are measured under 25°C and frame frenquency under 60Hz

Symble	Parameter	Min	Тур	Max	Units	Note
VDD	Logic/LCD Drive Voltage	2.35	2.5	2.7	[Volt]	
PDD	VDD Power	-	1.13	1.38	[Watt]	Note 1
IDD	IDD Current	-	450	550	[mA]	Note 1

Note 1 : Display pattern

Item	Color
1.	White
2	Yellow
3	Purple
4	Red
5	Light Blue
6	Green
7	Blue
8	Black

1 2 3	4 5	6 7	7 8
-------	-----	-----	-----



AU OPTRONICS CORPORATION

## 5.2 Backlight Unit

#### 5.2.1 LED characteristics

Parameter guideline for LED driving is under stable conditions at 25°C (Room Temperature):

Parameter	Symbol	Min.	Тур.	Max.	Unit	Condition
LED Operation Current	IRLED			19	[mA]	
Light Bar Operation Voltage (for reference)	VLB	-	31	34	[Volt]	Note 1
BLU Power consumption (for reference)	PLED	-	-	4.56	[Watt]	(Ta=25°C), Note 2 Vin =12V
LED life Time (Typical)	N/A	10,000	-	-	Hour	(Ta=25°C), Note 3 I <sub>F</sub> =20 mA

Note 1: The value showed in the table is one light bar's operation voltage.

Note 2: Calculator value for reference PLED = VF (Normal Distribution) \* IF (Normal Distribution) / Efficiency

Note 3: The LED life-time define as the estimated time to 50% degradation of initial luminous.

## 6. Signal Interface Characteristic

### 6.1 Pixel Format Image

Following figure shows the relationship of the input signals and LCD pixel format.

	1						192	20
1st Line	R G B	R G B		R	G	В	R C	В
	,				```		,	
	,	.						
	` ` `		, ,		` .		•	
	``	1	1		`		,	
	,	,	; ;		`		,	
1080th Line	R G B	R G B		R	G	В	R	В



## **6.2 Integration Interface Requirement**

#### **6.2.1 Connector Description**

Physical interface is described as for the connector on module.

These connectors are capable of accommodating the following signals and will be following components.

Connector Name / Designation	For Signal Connector
Manufacturer	I-PEX
Type / Part Number	20461-030E-12
Mating Housing/Part Number	20459-130T-10

#### **6.2.2 Pin Assignment**

CN1 INPUT SIGNAL (20461-030E-12 / I-PEX ) [ Mating Connector :20459-130T-10 / I-PEX ]

Terminal No.	Symbol	Function
1	HPD	HPD signal pin
2	NC	Non-Connection
3	Lane1-	Comp Signal Link Lane1
4	Lane1+	True Signal Link Lane1
5	Lane0-	Comp Signal Link Lane0
6	Lane0+	True Signal Link Lane0
7	AUX-	True Signal Auxiliary Ch.
8	AUX+	Comp Signal Auxiliary Ch.
9	NC	Non-Connection
10	NC	Non-Connection
11	NC	Non-Connection
12	NC	Non-Connection
13	VCD1	LED Cathode
14	VCD2	LED Cathode
15	VCD3	LED Cathode
16	VCD4	LED Cathode
17	VCD5	LED Cathode
18	VCD6	LED Cathode
19	NC	Non-Connection
20	NC	Non-Connection
21	NC	Non-Connection



22	Vss	GND
23	$V_{ m SS}$	GND
24	Vss	GND
25	$V_{ m DD}$	Power Supply, 2.5V
26	$V_{ m DD}$	Power Supply, 2.5V
27	$V_{ m DD}$	Power Supply, 2.5V
28	NC	Non-Connection
29	VAD	LED Anode
30	VAD	LED Anode

Note 1) Please refer to AC, DC timing specification of VESA DisplayPort Version 1.1a.

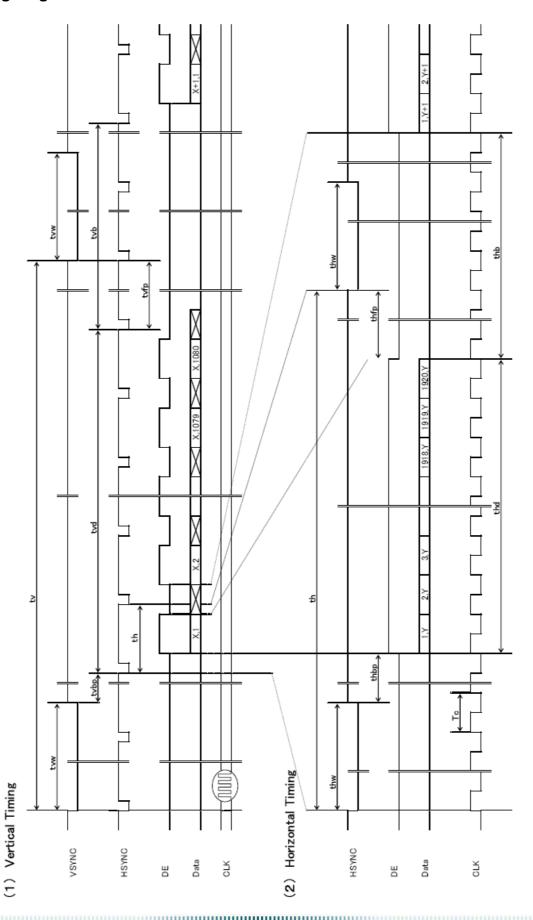
Note 2) Please connect GND pin to ground. Don't use it as no-connect nor connection with high impedance.

Note 3) Please connect NC to nothing. Don't connect it to ground nor to other signal input.



## **6.3 Interface Timing**

## 6.3.1 Timing diagram





#### AU OPTRONICS CORPORATION

### 6.3.2 Timing Specifications

#### ●60Hz

項目	記号	Min.	Тур.	Max.	単位
フレーム周期	tv	1092	1095	1100	th
		16.56	16.68	16.93	ms
垂直表示期間	tvd	1080	1080	1080	th
垂直ブランキング期間	tvb	12	15	20	th
1走査線時間	th	2450	2481	2502	tc
		15.16	15.24	15.39	μs
水平表示期間	thd	1920	1920	1920	tc
水平ブランキング期間	thb	530	561	582	tc
クロック周期	tc	159.2	162.84	165	MHz
		6.061	6.141	6.281	ns

#### ●50Hz

項目	記号	Min.	Тур.	Max.	単位
フレーム周期	tv	1092	1095	1100	th
		19.66	20.00	20.87	ms
垂直表示期間	tvd	1080	1080	1080	th
垂直ブランキング期間	tvb	12	15	20	th
1走査線時間	th	2160	2169	2182	tc
		18.00	18.27	18.97	μs
水平表示期間	thd	1920	1920	1920	tc
水平ブランキング期間	thb	240	249	262	tc
クロック周期	tc	115	118.75	120	MHz
		8.333	8.421	8.696	ns

#### ●40Hz

₩ 4011Z					
項目	記号	Min.	Тур.	Max.	単位
フレーム周期	tv	1092	1095	1100	th
		23.40	25.00	26.75	ms
垂直表示期間	tvd	1080	1080	1080	th
垂直ブランキング期間	tvb	12	15	20	th
1走査線時間	th	2250	2281	2310	tc
		21.43	22.83	24.32	μs
水平表示期間	thd	1920	1920	1920	tc
水平ブランキング期間	thb	330	361	390	tc
クロック周期	tc	95	99.91	105	MHz
		9.524	10.009	10.526	ns

項目	記号	Min.	Тур.	Max.	単位	]
垂直同期信号パルス幅	tvw	1			th	
垂直フロントポーチ	tvfp	1			th	
垂直バックポーチ	tvbp	2			th	<b>※1</b>
水平同期信号パルス幅	thw	8			tc	
水平フロントポーチ	thfp	8			tc	
水平バックポーチ	thbp	8			tc	<b></b> 2
DEパルス幅	thd	1920	1920	1920	tc	

※1 右の数式を満足する事。 tvb = tvw + tvfp + tvbp

- ※2 右の数式を満足する事。 thb = thw + thfp + thbp
- 注1) フレーム周期が遅くなりますと、フリッカ、点欠点など表示品位の低下を招く場合があります。
- 注2) Display port の AC, DC, タイミングにつては VESA Display port Ver. 1. 1a 参照ください。

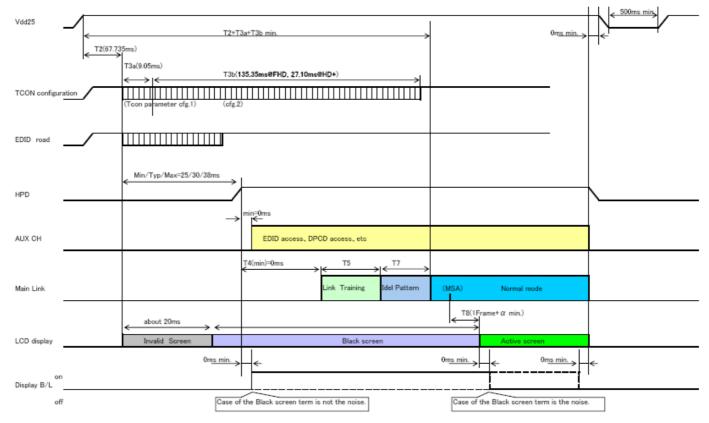
18 of 28



AU OPTRONICS CORPORATION

#### 6.4 Power ON/OFF Sequence

Power on/off sequence is as follows. Interface signals and LED on/off sequence are also shown in the chart. Signals from any system shall be Hi-Z state or low level when VDD is off





## 7. Panel Reliability Test

## 7.1 Reliability Test

This module is then tested in the following table.

However, this study will be conducted only one test item in the same module, multiple-item test module to perform the same

試験項目	試 験 条	件	備考	結果
高温動作	50℃	計 48時間	動作3)	3p/3p OK
高温保存	65℃	計 48時間	非動作	3p/3p OK
高温高湿動作	45℃, 90%	計 48時間	動作3)	3p/3p OK
高温高湿保存	50℃, 90%	計 48時間	非動作	3p/3p OK
低温動作	0℃	計 48時間	動作3)	3p/3p 0K
低温保存	-30℃	計 48時間	非動作	3p/3p OK
温度急変	-30℃ (2時間) ⇔65℃ (2時間)	12サイクル	非動作	3p/3p OK

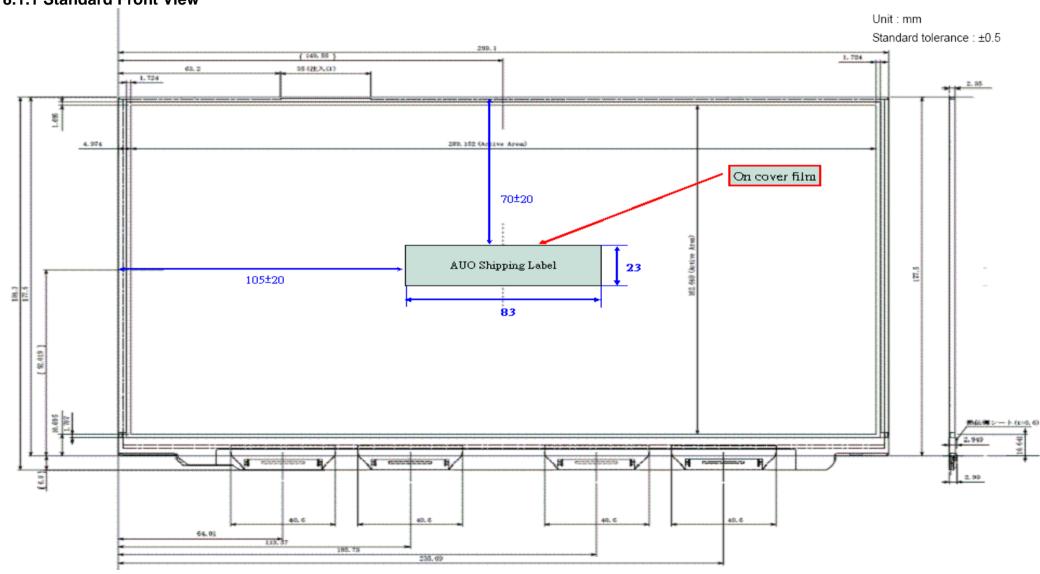
注1) 試験はモジュールに結露の無い条件にて実施する。

注2) 試験後、常温常湿(15  $\mathbb{C}$   $\sim$  35  $\mathbb{C}$  , 45  $\sim$  65 %(RH))で2時間以上放置後、検査を実施する。

注3) 周囲温度 : T a 25±5℃, 周囲湿度 : H a 65±20%RH, 電源電圧 : V DD 2.5V; LED 入 力順電流 : 19mA

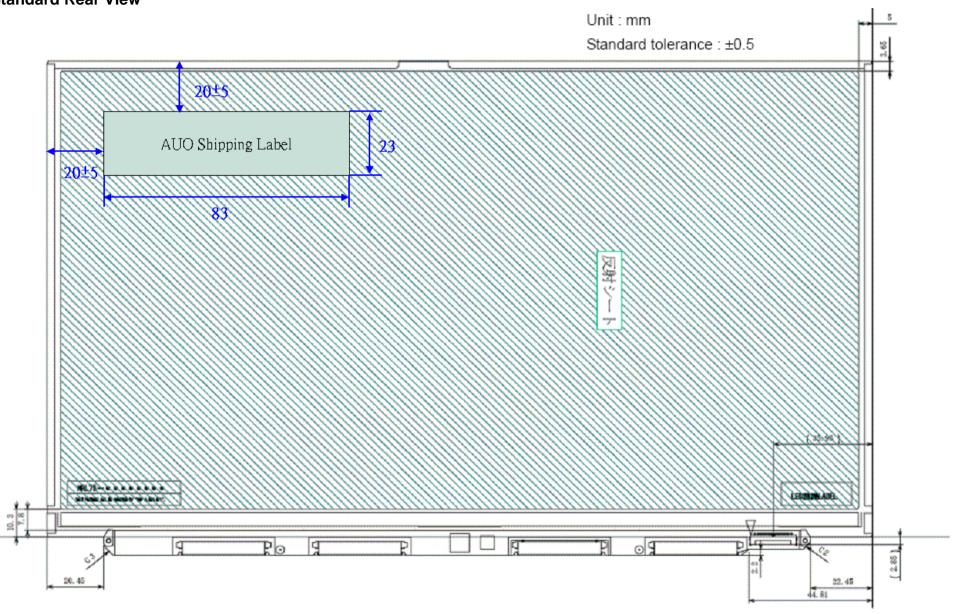


- 8. Mechanical Characteristics
- 8.1 LCM Outline Dimension
- 8.1.1 Standard Front View





AU OPTRONICS CORPORATION





AU OPTRONICS CORPORATION

## 9. Shipping and Package

## 9.1 Shipping Label Format

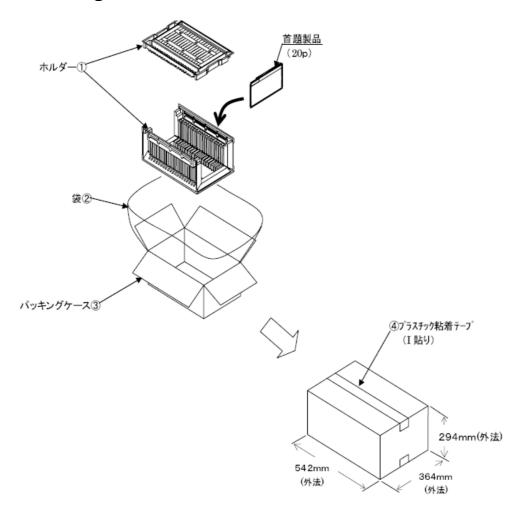


Manufactured MM/WW
Model No: B131HW02 V.0
AU Optronics
MADE IN JAPAN(Z50)

H/W: 0A F/W:1

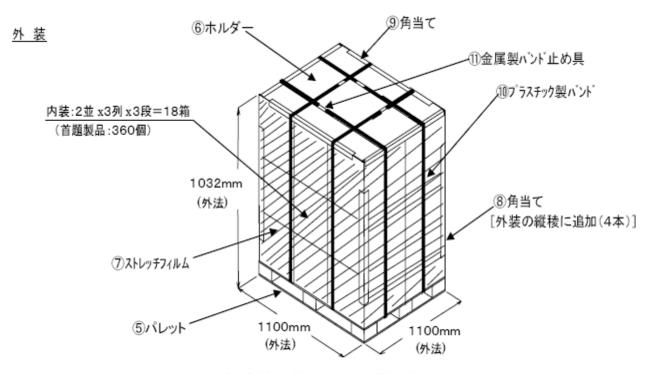


## 9.2 Carton Package





## 9.3 Shipping Package of Palletizing Sequence

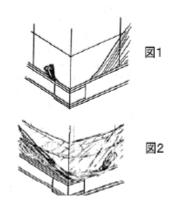


(注1)端数の場合は、下記の処置を行うこと。

- \*内装の積み段数を減らす。
- \*同じ段内で端数が生じた場合は、空の内装箱を詰め合わせる。

#### (注2)ストレッチフィルムの巻き方

- (1)巻き始めは粘着面を内側にしてフィルム端を図1の如く固定する。
- (2)巻き順は下側→上側→下側へ行う。
- (3)パレットの引っかかりは、フィルムを50mm以上でローピングする。
- (4)巻き数は下側2.5巻、中間、上側2巻とする。
- (5)巻きテンションはフィルム伸び率で約10%にする。
- (6)天面の引っかかり折り幅は200mm以上とする。
- (7)巻き終わりは、図2の如くフィルム端を固定する。
- (8)フィルムのつなぎはないこと。





# 10. Appendix

10.1 EDID Description

			ESCRIPTION ====================================	<b>-</b> 1-	~`### <u></u>	4 ~ 144 44.
Data		Data	説明	実入力		10進数
No.	(Hex)		田中1 本70 1 1		表示	表示
0	00	0	固定入力(Header)			
1	FF	255				
2	FF	255				
3	FF	255				
4	FF	255				
5	FF FF	255 255				
<u>6</u> 7	00	200				
8	36	54	メーカID	MS_	00110110	
9	7F	127	ァーがし (ASCIII−ドで入力)	IVIO_	01111111	
			7°15°5/ND	0005	01111111	
10	25 00	37 0	プロダクドID (10、11番地は逆転して使用される) プロダクトID	0025		
12	01	1	シリアルNo.	未記入		
13	01	1	プタブルNO. 未記入の場合は『O1』入力	不能人		
14	01	1	小品/(シー物目はWOI 2/(/)			
15	01	1				
16	03	3	製造週(1-53週:閏年は54週)	3週		3
17	14	20	製造年(製造年-1990)	2010年		20
18	01	1	EDID Version (Structure ①. ②)	1.4		1
19	04	4	①:18番地 ②19番地	1		4
20	A5	165	Video Input 情報		10100101	
21	1 D	29	両売サノバ(2000)	13.1 inch		29
22	10	16	(21番地:横 22番地:縦) 画面サイス*	29cm/16cm		16
23	78	120	階調: γ値(γ値×100-100)	$\gamma = 2.2$		120
24	02	2	サボート情報		00000010	
25	0F	15	色度: R,G,B,W		00001111	
26	15	21	10進粉を2進粉(10桁)に変換		0001 01 01	
27	9A	154	その際、誤差は±0.0005以下とする。 <u>色度</u>	Rx=0.602	10011010	
28	56	86	(例:0.610→1001110001)	Ry=0.336	01010110	
29	4B	75	(0.61 0351 6)	Gx=0.296	01 001 01 1	
30	8B	139		Gy=0.546	10001011	
31	26	38		Bx=0.148	00100110	
32	20	32		By=0.126	001 000000	
33	50	80		Wx=0.313	01 01 0000	
34	54	84		Wy=0.329	01 01 01 00	
35	00	0	Establish Timing	該当無し	00000000	
36	00	0	受像可能な解像度には全てbitを立てる。		00000000	
37	00	0	LCDは60Hzのみbitを立てるのが良い。		00000000	



	_					
Data	Data	Data	説明	実入力	2進数	10進数
No.	(Hex)	(Dec)			表示	表示
38	D1	209	Standard Timing 色度	1920		209
39	CO	192	・受像可能な代表的な全ての解像度を記入。	16:9 60Hz	110000000	
40	01	1	・2Byteのコードで1つの解像度を表示。			
41	01	1	・計8種類の解像度を記述出来る。			
42	01	1	・E-Timing(35-37番地)と重複しない事。			
43	01	1	· E-TimingとS-Timingのどちらかに			
44	01	1	最大解像度を記述する。			
45	01	1	・未使用部分には 01 01 を入れる。			
46	01	1	7/4/C/11 BD 25/1 4 1 0 1 0 1 0 1 0 2 5 7 1 1 0 0 0			
47	01	1	#1:(水平解像度/8)-31 → 16進数			
48	01	1	#1: (パイ ) # (あた) 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6 / 6			
49	01	1	16:10 → 0,0			
50	01	1	4:3 → 0,1			
51	01	1	4.3 → 0,1 5:4 → 1,0			
52	01 01	1	16:9 → 1,1			
53			5-0Bit・・・リフレッシュレート - 60			
54	90	156	推奨タイミング(24番地のフラグを立てておく) 推奨タイミング	16004111		16001
<u>55</u>	3F	63	54,55番地:ビグゼルグロック/10000	162.84MHz	4.0000000	16284
<u>56</u>	80	128	56番地:水平表示期間(pixels)/下位8bit(全12bit)	1920Pixels		
57	31	49	57番地:水平プランキング(pixels)/下位8bit(全12bit)	561 Pixels	00110001	561
58	72	114	58番地: H-A上位4bit + H-B上位4bit		01110010	
59	38	56	59番地: 垂直表示期間(lines) / 下位8bit (全12bit)	1080Lines	00111000	
60	OF	15	60番地:垂直ブランキング(lines)/下位8bit(全12bit)	15Lines	00001111	15
61	40	64	61 番地: V-A上位4bit + V-B上位4bit		01 0000000	
62	20	32	62番地: H-Sync. Offset(フロントポーチ)/下位8bit(全10bit)	32Pixels	001 000000	32
63	20	32	63番地: H-Sync.(パルス幅)/下位8bit(全10bit)	32Pixels	001 000000	32
64	33	51	64番地: V-フロントポーチ下位4bit + V-Sync.下位4bit (全6bit)	3/3Lines	00110011	
65	00	0	65番地:コメ가参照		00000000	
66	23	35	66番地:画面サイス、横(mm)/下位8bit(全12bit)	291 mm	00100011	291
67	A4	164	66番地: 画面サイス、縦(mm)/下位8bit(全12bit)	164mm	10100100	164
68	10	16	68番地:画面サイス、上位4bit + 画面サイス、縦上位4bit		0001 0000	
69	00	0	69番地:H-Border(全8bit)	0Pixels	00000000	0
70	00	0	70番地:V-Border(全8bit)	OLines	00000000	0
71	18	24	71番地:フラグ(E-EDID Standard Page 18 of 32参照)		00011000	
72	07	7	<b>40Hzタイミング</b> 40Hzタイミング 40Hzタイミング			
73	27	39	/2 <sub>/</sub> /3番地: E クセルクロック/10000 <b></b>	99.91 MHz		9991
74	80	128	74番地:水平表示期間(pixels)/下位8bit(全12bit)	1920Pixels	10000000	1920
75	69	105	75番地:水平ブランキング(pixels)/下位8bit(全12bit)	361 Pixels	01101001	361
76	71	113	76番地:H-A上位4bit + H-B上位4bit		01110001	
77	38	56	77番地:垂直表示期間(lines)/下位8bit(全12bit)	1080Lines	00111000	1080
78	OF	15	78番地:垂直プランキング (lines) / 下位8 bit (全12 bit)	15Lines	00001111	15
79	40	64	79番地: V-A上位4bit + V-B上位4bit		01 0000000	
80	20	32	80番地: H-Sync. Offset(フロントポーチ)/下位8bit(全10bit)	32Pixels	001 00000	32
81	20	32	81番地: H-Sync.(パルス幅)/下位8bit(全10bit)	32Pixels	001 00000	32
82	33	51	82番地: V-フロ小ポーチ下位4bit + V-Sync.下位4bit (全6bit)	3/3Lines	00110011	
83	00	0	83番地:以外参照	2. 2200	00000000	
84	23	35	84番地:画面サイス・横(mm)/下位8bit(全12bit)	291 mm	001 00011	291
85	A4	164	85番地:画面サイス:縦(mm)/ 下位8bit(全12bit)	164mm	10100100	164
86	10	16	86番地:画面サイス、上位4bit + 画面サイス、縦上位4bit	13711111	00010000	137
87	00	0	87番地:H-Border(全8bit)	0Pixels	000000000	0
						0
88	00 18	0	88番地:V-Border(全8bit) 89番地:フラグ(E-EDID Standard Page 18 of 32参照)	0Lines	000000000	U
89	10	24	00番地・/// (ETEDID Standard Mage 10 01 32 参照/		00011000	



Data	Data	Data	説明	実入力	2進数	10進数
No.	(Hex)	(Dec)			表示	表示
90	00	0	モデル名(識別 FC)			
91	00	0				
92	00	0	Header: 00 00 00 FC 00			
93	FC	252	モデル名: ASCIIコードにて記述			
94	00	0	Terminator:OA			
95	53	83	Blank:20	S		
96	6F	111		0		
97	6E	110		n		
98	79	121	得意要求:Sony LCD	У		
99	20	32				
100	4C	76		L		
101	43	67		С		
102	44	68		D		
103	0A	10	ASCIID-I*			
104	20	32	ASOII4			
105	20	32				
106	20	32				
107	20	32				
108	00	0	Monitor Range (識別 FD)			
109	00	0				
110	00	0	Header: 00 00 00 FD 00			
111	FD	253				
112	00	0				
113	27		113番地: 最小フレーム周波数(Hz) 整数入力	39 Hz		39
114	3D		114番地:最大フレーム周波数(Hz) 整数入力	61 Hz		61
115	2B		115番地: 最小水平周波数(kHz) 整数入力	43kHz		43
116	42		116番地: 最大水平周波数(kHz) 整数入力	66kHz		66
117	11		117番地: 最大クロック周波数(MHz)/10	162.84MHz		16.28
118	00	0				
119	0A	10				
120	20	32	118-125番地:			
121	20	32	Terminator… 00 0A			
122	20	32	残り…20 20 20 20 20			
123	20	32	Terminator: OA			
124	20	32	Blank: 20			
125	20	32				
126	00	0	Extension Flag (Extensionが無い場合は"00"と記入)			
127	2A	42	<b>Check-Sum</b> (0-127番地を合計し下2桁が00になる値)			