

(V) Preliminary	Specification
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() Final Specification

Module	20.1" UXGA Color TFT-LCD
Model Name	M201UN02 V6

Customer	Date	Checke Approve	
Approved by		Prepare	d
Note: This Specification is without notice.	subject to change	Deskto A	

Checked & Approved by

Prepared by

Desktop Display Business Group / AU Optronics corporation

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Version and Date	Page	Old description			New Description			Remark				
0.1 2006/01/06	All	First E	dition fo	or Cust	omer		All					
0.2 2006/02020	7	2.3 (Optical (Charact	eristic	S	2.3 C	ptical C	haract	eristic	S	
		View A	Angle :				View A	ngle				
				Min	Тур	Max			Min	Тур	Max	
		Horizon	tal (right)	75	85	-	Horizonta	al (right)	75	89	-	
		CR=10	(left)	75	85	-	CR=10	(left)	75	89	-	
		Vertical	(up)	75	85	-	Vertical	(up)	75	89	-	
		CR=10	(down)	75	85	-	CR=10	(down)	75	89	-	
		Color/	Chroma	ticity:			С	olor/Ch	romatio	city		
				Min	Тур	Max			Min	Тур	Max	
		Red x		0.624	0.654	0.684	Red x		0.615	0.645	0.675	
		Red y		0.301	0.331	0.361	Red y		0.310	0.340	0.370	
		Green x		0.255	0.285	0.315	Green x		0.260	0.290	0.320	
		Green y		0.559	0.689	0.619	Green y		0.570	0.600	0.630	
		Blue x		0.109	0.139	0.169	Blue x		0.112	0.142	0.172	
<u> </u>		Blue y		0.044	0.074	0.104	Blue y		0.037	0.067	0.097	

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1.0 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) In case if a module has to be put back into the packing container slot after once it was taken out from the container, do not press the center of the CCFL reflector edge. Instead, press at the far ends of the CCFL reflector edge softly. Otherwise the TFT module may be damaged.
- 10) At the insertion or removal of the Signal Interface Connector, be sure not to rotate nor tilt the Interface Connector of the TFT module.
- 2.0 11) After installation of the TFT module into an enclosure (Desktop monitor 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.

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General Description

This specification applies to the 20.1 inch Color TFT-LCD Module M201UN02 v.6.

The display supports the UXGA (1600(H) x 1200(V)) screen format and 16.7M colors (RGB 8-bits data).

All input signals are 2 Channel LVDS interface compatible.

This module does not contain an inverter card for backlight.

2.1 Display Characteristics

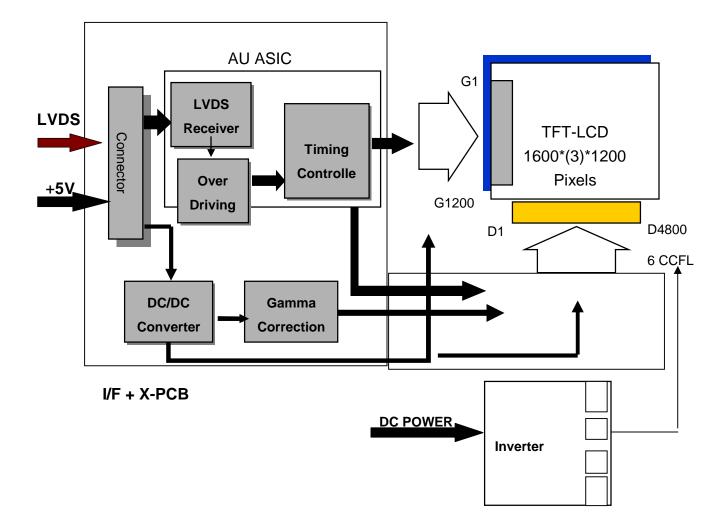
The following items are characteristics summary on the table under 25 $\,^{\circ}\!\!\mathbb{C}\,$ condition:

ITEMS	Unit	SPECIFICATIONS
Screen Diagonal	[mm]	510(20.1")
Active Area	[mm]	408.0 (H) x 306.0 (V)
Pixels H x V		1600(x3) x 1200
Pixel Pitch	[mm]	0.255 (per one triad) x 0.255
Pixel Arrangement		R.G.B. Vertical Stripe
Display Mode		Normally Black
White Luminance	[cd/m ²]	300 cd/m ² (Typ)
Contrast Ratio		1000 : 1 (Typ)
Optical Response Time	[msec]	
(Raising + Falling)		16 (Typ)
(Gray to Gray)		8 (Typ)
Nominal Input Voltage VDD	[Volt]	+5.0 V
Power Consumption	[Watt]	45W(typ.) (w/o Inverter, All white pattern)
(VDD line + CCFL line)		
Weight	[Grams]	3300 (Max)
Physical Size	[mm]	432(W) x 331.5(H) x 25 Max(D)
Electrical Interface		Even/Odd R/G/B data, 3 sync signal,
		Clock
Support Color		16.7M colors (RGB 8-bit data)
Surface treatment		Anti-glare (3H)
Temperature Range		
Operating	[°C]	0 to +50
Storage (Shipping)	[°C]	-20 to +60
RoHS Compliance		RoHS Compliance

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2.2 Functional Block Diagram

The following diagram shows the functional block of the 20.1 inches Color TFT-LCD Module:



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2.3 Optical Characteristics

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

Item	Unit	Conditions	Min.	Тур.	Max.
Viewing Angle	[degree] [degree]	Horizontal (Right) CR = 10 (Left)	75	89 89	-
	[degree] [degree]	Vertical (Up) CR = 10 (Down)	75	89 89	-
Contrast ratio		Normal Direction	700	1000	
Response Time (Note 1)	[msec]	Raising Time	-	11	15
	[msec]	Falling Time	-	5	7
	[msec]	Raising + Falling	-	16	22
	[msec]	Gray to Gray	-	8	
Color / Chromaticity Coordinates (CIE)		Red x	0.615	0.645	0.675
Octorializates (OIL)		Red y	0.310	0.340	0.370
		Green x	0.260	0.290	0.320
		Green y	0.570	0.600	0.630
		Blue x	0.112	0.142	0.172
		Blue y	0.037	0.067	0.097
Color Coordinates (CIE) White		White x	0.283	0.313	0.343
		White y	0.299	0.329	0.359
White Luminance at CCFL 7.0mA (central point)	[cd/m ²]		240	300	-
Luminance Uniformity (Note 2)	[%]		75	80	-
Crosstalk (in 60Hz) (Note 3)	[%]				1.5

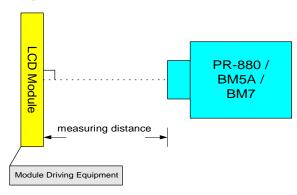
Equipment Pattern Generator, Power Supply, Digital Voltmeter, Luminance meter (PR 880, BM-5A,

BM-7, & EZContrast*)

Aperture
Test Point
Environment

1° with 100cm VD or 2° with 50cm viewing distance Center (ISO point 22)

< 1 lux

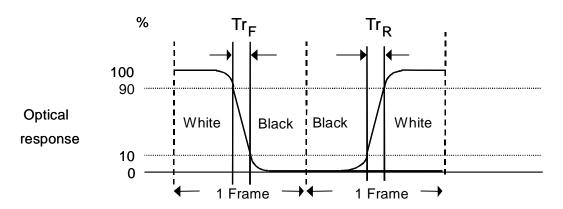


^{&#}x27;*' EZ Contrast is different measurement tool with very close viewing distance.

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Note 1: Definition of Response time:

The output signals of photodetector are measured when the input signals are changed from "Full Black" to "Full White" (rising time), and from "Full White" to "Full Black" (falling time), respectively. The response time is interval between the 10% and 90% (1 frame at 60 Hz) of amplitudes.

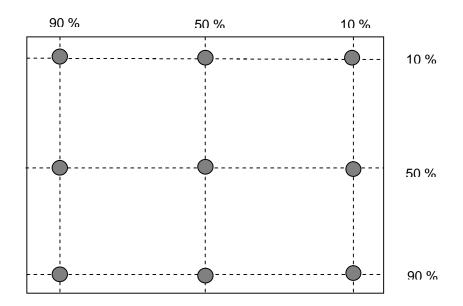


Tr R (rising time; from "Black" to "White") + Tf F (Falling time; from "White" to "Black") = 16ms(typ).

Algorithm:

Level A - Level B |≥16 then the average of Grey-to-Grey response time is 8 ms. (F= 60 Hz).

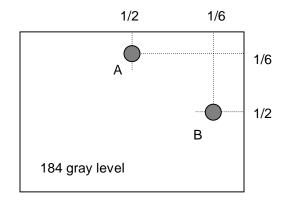
Note 2: Brightness uniformity of these 9 points is defined as below:

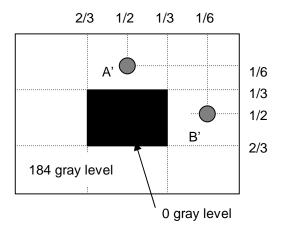


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Note 3: Crosstalk is defined as below:





Unit: percentage of dimension of display area

I $L_A\text{-}L_{A'}\,I\,/\,L_A\,x$ 100%= 1.5% max., L_A and L_B are brightness at location A and B

I $L_{B^{\text{-}}}L_{B^{'}}$ I / L_{B} x 100%= 1.5% max., $L_{A^{'}}$ and $L_{B^{'}}$ are brightness at location A' and B'

2.4 Pixel format image

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

1 2 1599 1600

1st Line R G B R G B R G B

1200th Line R G B R G B

R G B R G B

R G B R G B

R G B R G B

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3.0 Electrical characteristics

3.1 Absolute Maximum Ratings

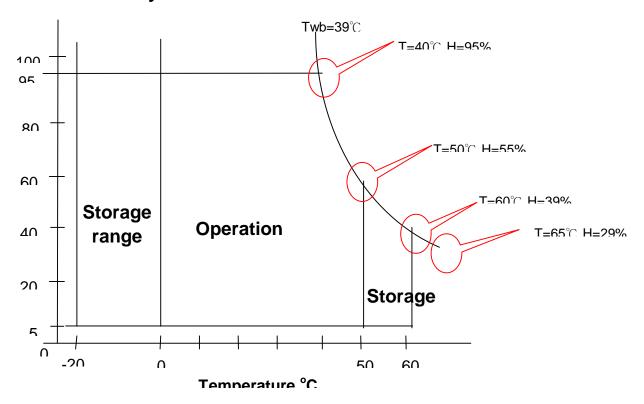
Absolute maximum ratings of the module is as following:

Item	Symbol	Min	Max	Unit	Conditions
Logic/LCD Drive Voltage	VIN	-0.3	+6.0	[Volt]	
Select LVDS data order	SELLVDS	NC	NC	[Volt]	
CCFL Inrush current	ICFLL	-	40	[mA]	Note 1
CCFL Current	ICFL	-	8	[mA] rms	
Operating Temperature	TOP	0	+50	[°C]	Note 2
Operating Humidity	HOP	8	95	[%RH]	Note 2
Storage Temperature	TST	-20	+60	[°C]	Note 2
Storage Humidity	HST	8	95	[%RH]	Note 2

Note 1: Duration=50 msec.

Note 2: Maximum Wet-Bulb should be 39% and No condensation.

Relative Humidity %



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3.2 Connectors

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	Interface Connector / Interface card
Manufacturer	JAE or compatible
Type Part Number	FI-XB30SSL-HF15 or MDF76TW-30S-1H58
Mating Housing Part Number	FI-X30S-H

Connector Name / Designation	Lamp Connector / Backlight lamp
Manufacturer	YEONHO
mandradia or	12011110
Type Part Number	35001HS-02L (2 pins), 20015HS-05L (5 pins)
Mating Type Part Number	35001WR-02L (2 pins), 20015WR-05L (5 pins)

3.3 Signal Pin

Pin#	Signal Name	Pin#	Signal Name
1	RxO0-	2	RxO0+
3	RxO1-	4	RxO1+
5	RxO2-	6	RxO2+
7	GND	8	RxOC-
9	RxOC+	10	RxO3-
11	RxO3+	12	RxE0-
13	RxE0+	14	GND
15	RxE1-	16	RxE1+
17	GND	18	RxE2-
19	RxE2+	20	RxEC-
21	RxEC+	22	RxE3-
23	RxE3+	24	GND
25	NC	26	NC
27	NC	28	Power
29	Power	30	Power

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3.4 Signal Description

The module using a pair of LVDS receiver SN75LVDS82(Texas Instruments) or compatible. LVDS is a differential signal technology for LCD interface and high speed data transfer device. Transmitter shall be SN75LVDS83(negative edge sampling) or compatible. The first LVDS port(RxOxxx) transmits odd pixels while the second LVDS port(RxExxx) transmits even pixels.

PIN#	SIGNAL NAME	DESCRIPTION
1	RxO0-	Negative LVDS differential data input (Odd data)
2	RxO0+	Positive LVDS differential data input (Odd data)
3	RxO1-	Negative LVDS differential data input (Odd data)
4	RxO1+	Positive LVDS differential data input (Odd data)
5	RxO2-	Negative LVDS differential data input (Odd data, H-Sync,V-Sync,DSPTMG)
6	RxO2+	Positive LVDS differential data input (Odd data, H-Sync,V-Sync,DSPTMG)
7	GND	Power Ground
8	RxOC-	Negative LVDS differential clock input (Odd clock)
9	RxOC+	Positive LVDS differential clock input (Odd clock)
10	RxO3-	Negative LVDS differential data input (Odd data)
11	RxO3+	Positive LVDS differential data input (Odd data)
12	RxE0-	Negative LVDS differential data input (Even clock)
13	RxE0+	Positive LVDS differential data input (Even data)
14	GND	Power Ground
15	RxE1-	Positive LVDS differential data input (Even data)
16	RxE1+	Negative LVDS differential data input (Even data)
17	GND	Power Ground
18	RxE2-	Negative LVDS differential data input (Even data)
19	RxE2+	Positive LVDS differential data input (Even data)
20	RxEC-	Negative LVDS differential clock input (Even clock)
21	RxEC+	Positive LVDS differential clock input (Even clock)
22	RxE3-	Negative LVDS differential data input (Even data)
23	RxE3+	Positive LVDS differential data input (Even data)
24	GND	Power Ground
25	NC	-
26	NC	-
27	NC	-
28	POWER	Power
29	POWER	Power
30	POWER	Power

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Note: Input signals of odd and even clock shall be the same timing.

LVDS DATA Name	Description
DSP	Display Timing: When the signal is high, the pixel data shall be valid to be displayed
V-S	Vertical Sync: Both Positive and Negative polarity are acceptable
H-S	Horizontal Sync: Both Positive and Negative polarity are acceptable

TI LVDS X'mitter SN75LVDS83	Module LVDS signal (interface connector pin7)	
Signal Name	Low(open)	
D0	Red0	
D1	Red1	
D2	Red2	
D3	Red3	
D4	Red4	
D5	Red7	
D6	Red5	
D7	Green0	
D8	Green1	
D9	Green2	
D10	Green6	
D11	Green7	
D12	Green3	
D13	Green4	
D14	Green5	
D15	Blue0	
D16	Blue6	
D17	Blue7	
D18	Blue1	
D19	Blue2	
D20	Blue3	
D21	Blue4	
D22	Blue5	
D23	NA	
D24	H Sync	
D25	V Sync	
D26	Display Timing	
D27	Red6	

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RYOCI KI		
RxOIN0	$\bigcirc \bigcirc $	$3 \times R2 \times R1 \times R0 \times$
Rv∩N1	$B1 \times B0 \times G5 \times G$	$_{64}$ \times $_{63}$ \times $_{62}$ \times $_{61}$ \times
RxOIN2	DE VS HS B	5 X B4 X B3 X B2 X
RxOIN3	RSV B7 B6 C	67 \ G6 \ R7 \ R6 \
RyFCI KI		
RyFCI KI RyFINO	- $ -$	3 X R2 X R1 X R0 X
		3 × R2 × R1 × R0 × 4 × G3 × G2 × G1 ×
RxFINO		

Note: R/G/B data 7:MSB, R/G/B data 0:LSB

O = "First Pixel Data" E = "Second Pixel Data"

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3.5 Signal Electrical Characteristics

Input signals shall be low or Hi-Z state when Vin is off It is recommended to refer the specifications of SN75LVDS82DGG (Texas Instruments) in detail.

Each signal characteristics are as follows;

Parameter	Condition	Min	Max	Unit
Vth	Differential InputHigh Voltage(Vcm=+1.2V)		100	[mV]
Vtl	Differential Input Low Voltage(Vcm=+1.2V)	-100		[mV]

Note: The value of Vcm from LVDS transmitter should follow the following guide.

Parameter	Min	Тур.	Max	Unit
Vcm	+1.0	+1.2	+1.35	[V]

3.6 Interface Timings

Basically, interface timings described here is not actual input timing of LCD module but output timing of SN75LVDS82DGG (Texas Instruments) or equivalent.

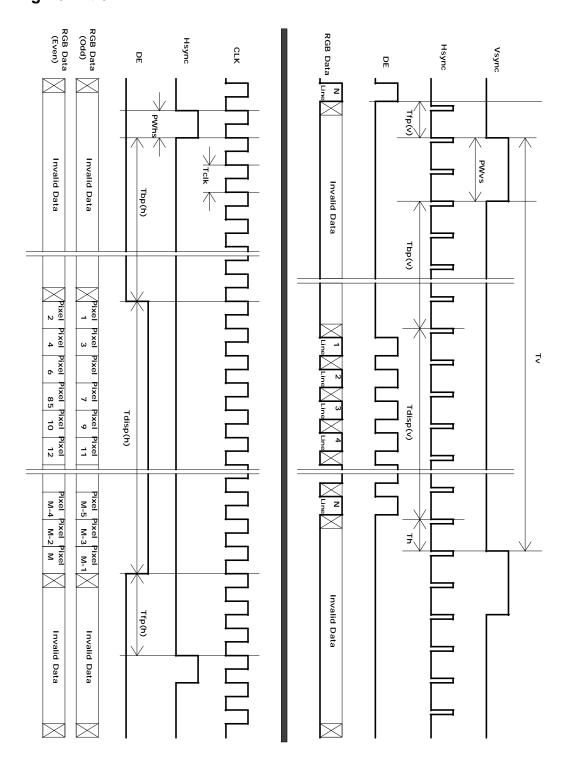
3.6.1 Timing Characteristics (DE mode only)

Signal	Item	Symbol	Min	Тур	Max	Unit
	Period	Tv	1211	1250	1300	Th
Vertical Section	Active	Tdisp(v)	1200	1200	1200	Th
	Blanking	Tbp(v)+Tfp(v)+PWvs	11	50	100	Th
	Period	Th	880	1080	1160	Tclk
Horizontal Section	Active	Tdisp(h)	800	800	800	Tclk
	Blanking	Tbp(h)+Tfp(h)+PWhs	80	280	360	Tclk
Frame Rate	Frequency	Freq/(Tv x Th)	55	60	75	Hz
	Period	Tclk	12.0	12.3	17.1	ns
Clock	Frequency	Freq	59	81	83	MHz

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3.6.2 Timing Definition



Note:1600X1200 at 60 Hz (VESA STANDARD)

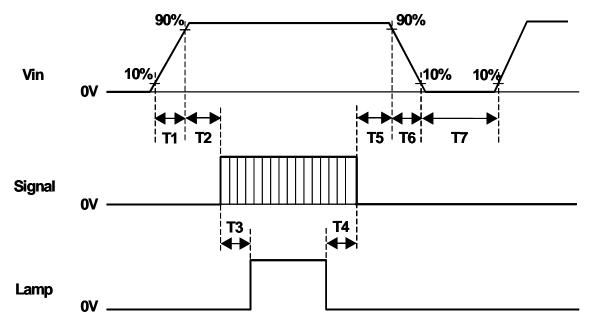
3.7 Power Consumption

Input power specifications are as follows;

Symbol	Parameter	Min	Тур	Max	Units	Condition
VDD	Logic/LCD Drive Voltage	4.5	5	5.5	[Volt]	
IDD	VDD current		1300	1500	[mA]	
IIDD	Inrush VDD current			7	[A]	t < 80us
PDD	VDD Power		6.5	8.3	[Watt]	Vin=5V, All White Pattern
VDDrp	Allowable Logic/LCD Drive Ripple Voltage			100	[mV] p-p	
VDDns	Allowable Logic/LCD Drive Ripple Noise			100	[mV] p-p	

3.8 Power ON/OFF Sequence

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



Symbol		Unit		
Symbol	Min	Тур	Max	Offic
T1	0.5	-	10	[ms]
T2	0.5	40	50	[ms]
Т3	200	-	-	[ms]
T4	200	-	-	[ms]
T5	0.5	16	50	[ms]
T6	0.5	-	10	[ms]
T7	1000	-	-	[ms]

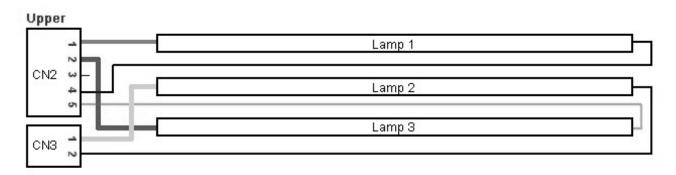
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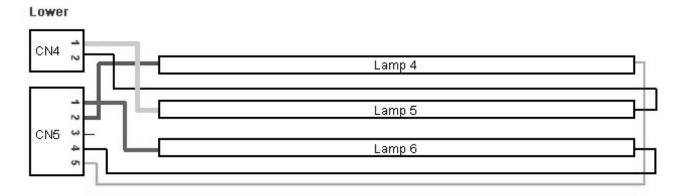


4.0 Backlight Characteristics

4.1 Signal for Lamp connector

	Connector No.	Pin No.	Color	Function
		1	Pink	High Voltage (Lamp 1)
		2	Sky Blue	High Voltage (Lamp 3)
	CN2	3	NC	NC
Upper		4	Red	Low Voltage (Lamp 1)
		5	Dark Blue	Low Voltage (Lamp 3)
	CN3	1	White	High Voltage (Lamp 2)
		2	White	Low Voltage (Lamp 2)
	CN4	1	White	High Voltage (Lamp 5)
		2	White	Low Voltage (Lamp 5)
		1	Pink	High Voltage (Lamp 6)
Lower		2	Sky Blue	High Voltage (Lamp 4)
	CN5	3	NC	NC
		4	Red	Low Voltage (Lamp 6)
		5	Dark Blue	Low Voltage (Lamp 4)





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4.2 Parameter guide line for CFL Inverter

Symbol	Parameter	Min	Тур	Max	Units	Condition
ISCFL	CCFL standard current	4.0	7.0	8.0	[mA] rms	(Ta=25°C)
IRCFL	CCFL operation range	6.5	7.0	7.5	[mA] rms	(Ta=25°C)
fCFL	CCFL Frequency	40	55	70	[KHz]	(Ta=25°C) Note 1
ViCFL (0°C)	CCFL Ignition Voltage Note 4	1600			[Volt] rms	(Ta=0°C) Note 2
ViCFL (25°C)	CCFL Ignition Voltage Note 4	1230			[Volt] rms	(Ta=25°C) Note 2
VCFL	CCFL Discharge Voltage (Reference) @7mA		744	820	[Volt] rms	(Ta=25°C) Note 3
PCFL	CCFL Power consumption @7mA		31.3	37	[Watt]	(Ta=25°C) Note 3

Note 1: CCFL Frequency should be carefully determined to avoid interference between inverter and TFT LCD

Note 2: CCFL inverter should be able to give out a power that has a generating capacity of over 1700 voltage.

Lamp units need 1700 voltage minimum for ignition

Note 3: Calculator value for reference (ICFL×VCFLx6=PCFL)

Note 4: (measure for both end of lamp wire)

5.0 Vibration, Shock, and Drop

5.1 Vibration & Shock

Vibration mode	Random	
Acceleration (Grms)	1.5	
Frequency (Hz)	10~200	
Active time (min)	30 for each axis (X, Y, Z)	

5.2 Shock Test Spec:

Acceleration (G) –a	50
Active time -b	20
Wave form	half-sin
Times	1

Direction: ±X, ±Y, ±Z

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5.3 Drop test

Package test: The drop height is 60 cm.

6.0 Environment

The display module will meet the provision of this specification during operating condition or after storage or shipment condition specified below. Operation at 10% beyond the specified range will not cause physical damage to the unit.

6.1 Temperature and Humidity

6.1.1 Operating Conditions

The display module operates error free, when operated under the following conditions;

Temperature $0 \, ^{\circ}\text{C}$ to $50 \, ^{\circ}\text{C}$ Relative Humidity 8% to 95% Wet Bulb Temperature $39.0 \, ^{\circ}\text{C}$

6.1.2 Shipping Conditions

The display module operates error free, after the following conditions;

Temperature $-20\,^{\circ}\text{C}$ to $60\,^{\circ}\text{C}$ Relative Humidity 8% to 95% Wet Bulb Temperature 39.0 $^{\circ}\text{C}$

6.2 Atmospheric Pressure

The display assembly is capable of being operated without affecting its operations over the pressure range as following specified;

	Pressure	Note
Maximum Pressure	1040hPa	0m = sea level
Minimum Pressure	674hPa	3048m = 10.000 feet

Note: Non-operation attitude limit of this display module = 30,000 feet. = 9145 m.

6.3 Thermal Shock

The display module will not sustain damage after being subjected to 100 cycles of rapid temperature change. A cycle of rapid temperature change consists of varying the temperature from -20° C to 60° C, and back again.

Thermal shock cycle -20 °C for 30min 60 °C for 30min

Power is not applied during the test. After temperature cycling, the unit is placed in normal room ambient for at least 4 hours before powering on.

7.0 Reliability

This display module and the packaging of that will comply following standards.

7.1 Failure Criteria

The display assembly will be considered as failing unit when it no longer meets any of the requirements stated in this specification. Only as for maximum white luminance, following criteria is applicable.

Note: Maximum white Luminance shall be 150 cd/m²or more.

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7.2 Failure Rate

The average failure rate of the display module (from first power-on cycle till 1,000 hours later) will not exceed 1.0%.

The average failure rate of the display module from 1,000 hours until 16,000 hours will not exceed 0.7% per 1000 hours.

7.2.1 Usage

The assumed usage for the above criteria is:

220 power-on hours per month 500 power on/off cycles per month Maximum brightness setting

Operation to be within office environment (25°C typical)

7.2.2 Component De-rating

All the components used in this device will be checked the load condition to meet the failure rate criteria.

7.3 CCFL Life

The assumed CCFL Life will be longer than 50,000 hours, typical value is 50,000 hours under stable condition at 25± 5°C:

Standard current at 7.0 ± 0.5 mA.

Definition of life: brightness becomes 50% or less than the minimum luminance value of CCFL.

7.4 ON/OFF Cycle

The display module will be capable of being operated over the following ON/OFF Cycles.

ON/OFF	Value	Cycles
+Vin and CCFL power	30,000	10 seconds on / 10 seconds off

8.0 Safety

8.1 Sharp Edge Requirements

There will be no sharp edges or comers on the display assembly that could cause injury.

8.2 Materials

8.2.1 Toxicity

There will be no carcinogenic materials used anywhere in the display module. If toxic materials are used, they will be reviewed and approved by the responsible AUO Toxicologist.

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8.2.2 Flammability

All components including electrical components that do not meet the flammability grade UL94-V1 in the module will complete the flammability rating exception approval process. The printed circuit board will be made from material rated 94-V1 or better. The actual UL flammability rating will be printed on the printed circuit board.

8.3 Capacitors

If any polarized capacitors are used in the display assembly, provisions will be made to keep them from being inserted backwards.

9.0 Other requirements

9.1 National Test Lab Requirement

The display module will satisfy all requirements for compliance to

UL 1950, First Edition
U.S.A. Information Technology Equipment
CSA C22.2 No.950-M89
Canada, Information Technology Equipment
International, Information Processing Equipment
(European Norm for IEC950)

9.2 Label

9.2.1 Product label



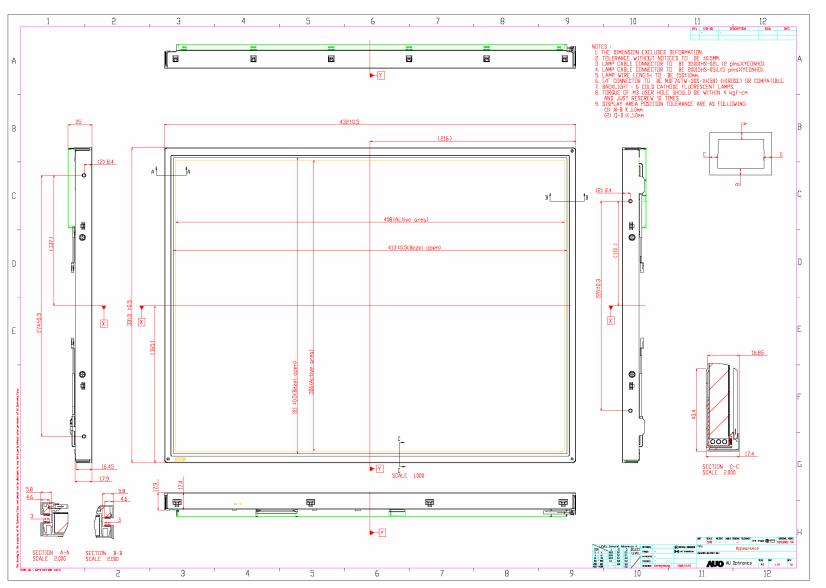
10.0 Mechanical Characteristic

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