



remative Specification
Preliminary Specification
Approval Specification

MODEL NO.: G150XGE SUFFIX: L05

Customer:	
APPROVED BY	SIGNATURE
Name / Title Note	
Please return 1 copy for your signature and comments.	our confirmation with your
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Approved By	Checked By	Prepared By
yuhsiang.chang	clark.kuo	jason.mf.huang
(張喻翔/514-10922)	(郭鐘亮/514-10921)	(黄名福/514-10919)
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Version 1.0 10 MAY 2012 1 / 27

2 / 27

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PRODUCT SPECIFICATION

- CONTENTS -

REVISION HISTORY	 3
1. GENERAL DESCRIPTION 1.1 OVERVIEW 1.2 FEATURES 1.3 APPLICATION 1.4 GENERAL SPECIFICATIONS 1.5 MECHANICAL SPECIFICATIONS	4
2. ABSOLUTE MAXIMUM RATINGS 2.1 ABSOLUTE RATINGS OF ENVIRONMENT 2.2 ELECTRICAL ABSOLUTE RATINGS 2.2.1 TFT LCD MODULE 2.2.2 BACKLIGHT UNIT	6
3. ELECTRICAL CHARACTERISTICS 3.1 TFT LCD MODULE 3.2 BACKLIGHT UNIT	8
4. BLOCK DIAGRAM 4.1 TFT LCD MODULE	10
5. INPUT TERMINAL PIN ASSIGNMENT 5.1 TFT LCD MODULE 5.2 BACKLIGHT UNIT 5.3 COLOR DATA INPUT ASSIGNMENT	11
6. INTERFACE TIMING 6.1 INPUT SIGNAL TIMING SPECIFICATIONS 6.2 POWER ON/OFF SEQUENCE 6.3 THE INPUT DATA FORMAT 6.4 SCANNING DIRECTION	 13
7. OPTICAL CHARACTERISTICS 7.1 TEST CONDITIONS 7.2 OPTICAL SPECIFICATIONS	 17
8. RELIABILITY TEST CRITERIA	 21
9. PACKAGING 9.1 PACKING SPECIFICATIONS 9.2 PACKING METHOD 9.3 UNPACKING METHOD	 22
10. DEFINITION OF LABELS	 24
11. PRECAUTIONS 11.1 ASSEMBLY AND HANDLING PRECAUTIONS 11.2 SAFETY PRECAUTIONS	 25
12. MECHANICAL CHARACTERISTICS	 26

10 MAY 2012

Version 1.0





REVISION HISTORY

Version	Date	Section	Description
Ver. 1.0	May 10, 2013	All	Preliminary Specification was first issued.

Version 1.0 10 MAY 2012 3 / 27

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1. GENERAL DESCRIPTION

1.1 OVERVIEW

G150XGE-L05 is a 15.0" TFT Liquid Crystal Display module with LED Backlight units and 20 pins LVDS interface. This module supports 1024 x 768 XGA mode and can display 16.2M/262k colors.

The PSWG is to establish a set of displays with standard mechanical dimensions and select electrical interface requirements for an industry standard 15.0" XGA LCD panel and the LED driving device for Backlight is built in PCBA.

1.2 FEATURES

- XGA (1024 x 768 pixels) resolution
- DE (Data Enable) only mode
- LVDS Interface with 1pixel/clock
- PSWG (Panel Standardization Working Group)
- Wide operating temperature.
- RoHS compliance

1.3 APPLICATION

- -TFT LCD Monitor
- Factory Application
- Amusement
- Vehicle

1.4 GENERAL SPECIFICATIONS

Item Specification			Note
Active Area	304.1 (H) x 228.1(V) (15.0" diagonal)	mm	(1)
Bezel Opening Area	307.4(H) x 231.3(V)	mm	(')
Driver Element	a-Si TFT active matrix	-	-
Pixel Number	1024 x R.G.B x 768	pixel	-
Pixel Pitch	0.297(H) x 0.297(W)	mm	-
Pixel Arrangement	RGB vertical Stripe	-	-
Display Colors	16,194,277 / 262,144	color	-
Display Mode	Normally White	-	-
Surface Treatment	Hard Coating (3H), Anti-Glare (Haze 25)	-	-
Module Power Consumption	7.5	W	Typical

Version 1.0 10 MAY 2012 4 / 27

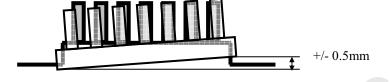


1.5 MECHANICAL SPECIFICATIONS

Item		Min.	Тур.	Max.	Unit	Note
	Horizontal(H)	326.0	326.5	327.0	mm	(1)
Module Size	Vertical(V)	253.0	253.5	254.0	mm	(1)
	Depth(D)	-	11.5	12.0	mm	(1)(2)
Weight		-	1084.6	1134	g	-

Note (1) Please refer to the attached drawings for more information of front and back outline dimensions.

Note (2) The depth is without connector.



Version 1.0 10 MAY 2012 5 / 27





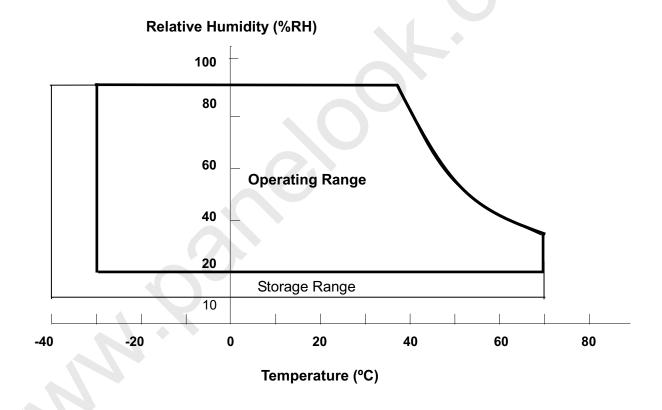
2. ABSOLUTE MAXIMUM RATINGS

2.1 ABSOLUTE RATINGS OF ENVIRONMENT

Item	Svmbol	Va	Unit	Note	
item	Symbol	Min.	Max.	5	Note
Operating Ambient Temperature	T _{OP}	-30	+70	$^{\circ}\!\mathbb{C}$	
Storage Temperature	T _{ST}	-40	+70	$^{\circ}\mathbb{C}$	

Note (1) Temperature and relative humidity range is shown in the figure below.

- (2) 90 %RH Max. (Ta \leq 40 $^{\circ}$ C).
- (3) Wet-bulb temperature should be 39°C Max. (Ta > 40°C).
- (4) No condensation.



Version 1.0 10 MAY 2012 6 / 27







2.2 ELECTRICAL ABSOLUTE RATINGS

2.2.1 TFT LCD MODULE

Itom	Svmbol	whol Value		Unit	Note	
Item	Symbol	Min.	Max.	Ullit	Note	
Power Supply Voltage	VCC	-0.3	4	V	(1)	

2.2.2 BACKLIGHT UNIT

Item	Symbol	Va	lue	Unit	Note	
item	Symbol	Min.	Max.	Offic	Note	
Converter Voltage	Vi	-0.3	18	V	(1), (2)	
Enable Voltage	EN		5.5	V		
Backlight Adjust	ADJ		5.5	V		

Note (1) Permanent damage to the device may occur if maximum values are exceeded. Function operation should be restricted to the conditions described under Normal Operating Conditions.

Note (2) Specified values are for lamp (Refer to 3.2 for further information).

Version 1.0 10 MAY 2012 7 / 27





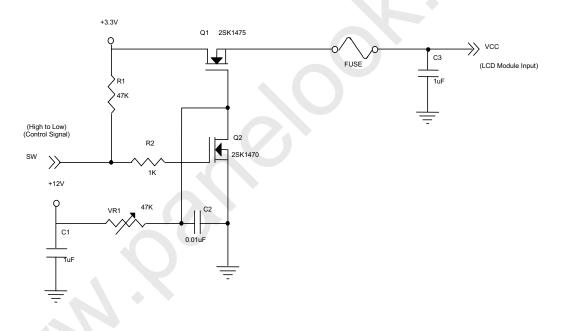
3. ELECTRICAL CHARACTERISTICS

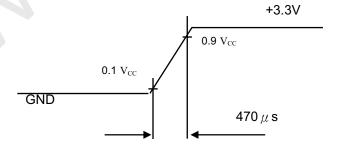
3.1 TFT LCD MODULE

Parameter		Symbol		Value	Unit	Note	
		Symbol	Min.	Тур.	Max.	Offic	Note
Power Supply Voltage		V _{cc}	3.0	3.3	3.6	V	-
Ripple Voltage		V_{RP}	•	ı	100	mVp-p	
Rush Current		I _{RUSH}	•	•	2.0	Α	(2)
Power Supply Current	White	lcc	-	410	510	mA	(3)a
Fower Supply Current	Black	ICC	-	590	690	mA	(3)b
LVDS differential input voltage	e	Vid	200	-	600	mV	
LVDS common input voltage		Vic	1.0	1.2	1.4	V	
Differential Input Voltage for	"H" Level	V _{IH}	-	-	100	mV	-
LVDS Receiver Threshold	"L" Level	V_{IL}	-100	-	-	mV	-
Terminating Resistor		R _T	-	100	-	Ohm	-

Note (1) The module should be always operated within above ranges.

Note (2) Measurement Conditions:



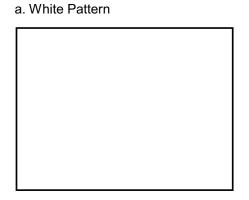


Version 1.0 10 MAY 2012 8 / 27





Note (3) The specified power supply current is under the conditions at V_{DD} =3.3V, Ta = 25 \pm 2 $^{\circ}$ C, DC Current and f_v = 60 Hz, whereas a power dissipation check pattern below is displayed.



Active Area





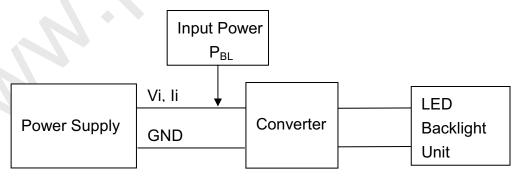
Active Area

3.2 BACKLIGHT UNIT

Ta = 25 ± 2 °C

Parameter		Symbol	Value			Unit	Note	
Farameter			Min.	Typ.	Max.	Offic	Note	
Converter Power Supply \	/oltage	V _i	10.8	12.0	13.2	V		
Converter Power Supply 0	Current	l _i	0.45	0.4	0.37	Α	@ Vi = 12V (Duty 100%)	
Backlight Power Consumption		P _{BL}			4.9	W	@ Vi = 12V (Duty 100%)	
EN Control Level	Backlight on		2.0	3.3	5.0	V		
Liv Control Level	Backlight off		0		8.0	V		
PWM Control Level	PWM High Level		2.0	3.3	5.0	V		
F VV IVI CONTION Level	PWM Low Level	-	0	-	0.15	V		
PWM Control Duty Ratio		-	1	-	100	%	@200Hz	
PWM Control Frequency		f _{PWM}	190	200	20k	Hz	(2)	
LED Life Time		L _L	50,000	-	-	Hrs	(3)	

Note (1) LED current is measured by utilizing a high frequency current meter as shown below:



Note (2) At 20k Hz PWM control frequency, duty ratio range is restricted from 20% to 100%.

Note (3) The lifetime of LED is defined as the time when it continues to operate under the conditions at Ta = 25 ± 2 °C and Duty 100% until the brightness becomes \leq 50% of its original value. Operating LED under high temperature environment will reduce life time and lead to color shift.

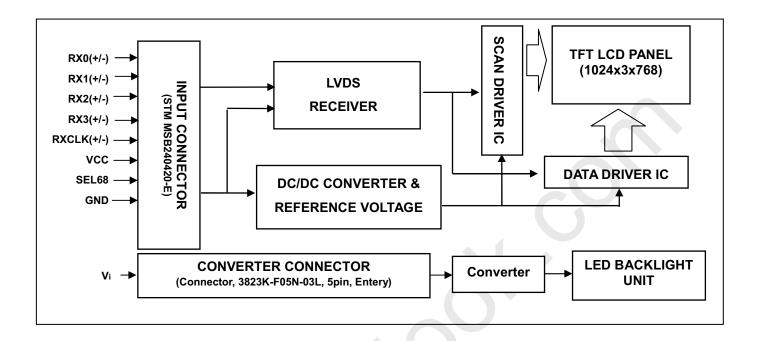
Version 1.0 10 MAY 2012 9 / 27

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- 4. BLOCK DIAGRAM
- 4.1 TFT LCD MODULE



10 / 27 Version 1.0 10 MAY 2012





5. INPUT TERMINAL PIN ASSIGNMENT

5.1 TFT LCD MODULE

Pin No.	Symbol	Function	Polarity	Note
1	VCC	Power Supply +3.3V(typical)	-	
2	VCC	Power Supply +3.3V(typical)		
3	GND	Ground		
4	LR/UD	Reverse Scan Control H or NC = Normal Mode. L = Horizonta/ Vertical Reverse Scan.		
5	RX0-	LVDS Differential Data Input	Negative	
6	RX0+	LVDS Differential Data Input	Positive	
7	GND	Ground		
8	RX1-	LVDS Differential Data Input	Negative	
9	RX1+	LVDS Differential Data Input	Positive	
10	GND	Ground		
11	RX2-	LVDS Differential Data Input	Negative	
12	RX2+	LVDS Differential Data Input	Positive	
13	GND	Ground	4	
14	RXCLK-	LVDS Differential Data Input	Negative	
15	RXCLK+	LVDS Differential Data Input	Positive	
16	GND	Ground		
17	RX3-	LVDS Differential Data Input	Negative	
18	RX3+	LVDS Differential Data Input	Positive	
19	GND	Ground		
20	SEL68	LVDS 6/8 bit select function control, High → 6bit Input Mode Low or NC → 8bit Input Mode		Note (3)

Note (1) Connector Part No.: Entery 3804K-F20N-10L or equivalent.

Note (2) User's connector Part No.: Entery H204K-D20N-02B or equivalent.

Note (3) "Low" stands for 0V. "High" stands for 3.3V. "NC" stands for "No Connection".

5.2 BACKLIGHT UNIT(Converter connector pin)

Pin	Symbol	Description	Remark
1	V_{i}	Converter input voltage	12V
2	V_{GND}	Converter ground	Ground
3	EN	Enable pin	3.3V
4	ADJ	Backlight Adjust	PWM Dimming (Hi: 3.3V _{DC} , Lo: 0V _{DC})
5	NC	Not Connect	

Note (1) Connector Part No.: 3808K-F05N-03L (Entery) or equivalent.

Note (2) User's connector Part No.: 3808K-F05N-03L (Entery) or equivalent.

Version 1.0 10 MAY 2012 11 / 27





5.3 COLOR DATA INPUT ASSIGNMENT

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 the assignment of color versus data input.

Data Signal																									
	Color				Re								Gre								Bl				
	I	R7	R6	R5	R4	R3	R2	R1	R0	R7	R6	G5	G4	G3	G2	G1	G0	R7	R6	B5	B4	В3	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	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
L .	Green	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
Colors		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(0) / Dark	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(1)	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Crov	Red(2)	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gray	:	:	:	:	:	:	:	:	:	:	:	:	:	•	:			:	:	:	:	:	:	:	:
Scale	:	:	:	:	:	:	:	:	:	:	:	:	: /	-:			:	:	:	:	:	:	:	:	:
Of	Red(252)	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Red	Red(252)	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(252)	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(0)/Dark	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(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Gray	Green(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Scale	:	:	:	:	:	:	:		:\	•	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of	:	:	:	:	:	:	: (:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Green	Green(252)	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0
Green	Green(252)	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(252)	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(0) / Dark	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(1)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Crov	Blue(2)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
Gray Scale	:	-	:			:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
	:	:	:	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:	:
Of Blue	Blue(252)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1
Blue	Blue(252)	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(252)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1

Note (1) 0: Low Level Voltage, 1: High Level Voltage

Version 1.0 10 MAY 2012 12 / 27





6. INTERFACE TIMING

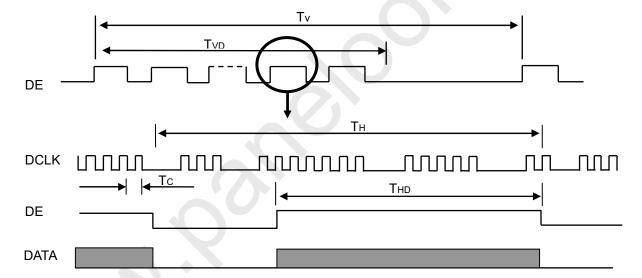
6.1 INPUT SIGNAL TIMING SPECIFICATIONS

The input signal timing specifications are shown as the following table and timing diagram.

Signal	Item	Symbol	Min.	Тур.	Max.	Unit	Note
DCLK	Pixel Clock	1/T _C	53.35	65	80	MHz	-
	Vertical Total Time	T_V	780	806	1200	T_H	-
DE	Vertical Address Time	T_{VD}	768	768	768	T_H	-
	Horizontal Total Time	T _H	1140	1344	1600	T _C	-
	Horizontal Address Time	T _{HD}	1024	1024	1024	T_C	_

Note (1) Because this module is operated by DE only mode, Hsync and Vsync input signals should be set to low logic level or ground. Otherwise, this module would operate abnormally.

INPUT SIGNAL TIMING DIAGRAM

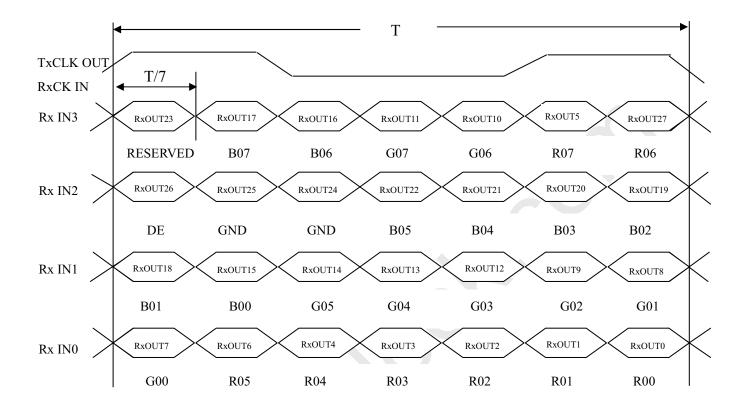


Version 1.0 10 MAY 2012 13 / 27





TIMING DIAGRAM of LVDS



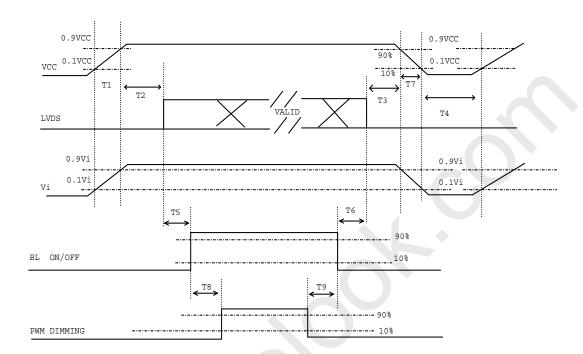
Version 1.0 10 MAY 2012 14 / 27





6.2 POWER ON/OFF SEQUENCE

To prevent a latch-up or DC operation of LCD assembly, the power on/off sequence should be as the diagram below.



Power ON/OFF sequence

- Note (1) Please avoid floating state of interface signal at invalid period.
- Note (2) When the interface signal is invalid, be sure to pull down the power supply of LCD VCC to 0 V.
- Note (3) The Backlight converter power must be turned on after the power supply for the logic and the interface signal is valid. The Backlight converter power must be turned off before the power supply for the logic and the interface signal is invalid.

Parameter		Units				
raiametei	Min	Тур	Max	Offics		
T1	0.5	1	10	ms		
T2	0	1	50	ms		
Т3	0	1	50	ms		
T4	500	1	-	ms		
T5	200	1	-	ms		
T6	200	1	-	ms		
T7	5	1	300	ms		
Т8	10	-	-	ms		
Т9	10	-	-	ms		

Version 1.0 10 MAY 2012 15 / 27





6.4 SCANNING DIRECTION

The following figures show the image see from the front view. The arrow indicates the direction of scan.

Fig.1 Normal Scan



Fig.2 Reverse Scan



Fig. 1 Normal scan (pin 4, LR/UD = High or NC)

Fig. 2 Reverse scan (pin 4, LR/UD = Low)

Version 1.0 10 MAY 2012 16 / 27



7. OPTICAL CHARACTERISTICS

7.1 TEST CONDITIONS

Item	Symbol	Value	Unit			
Ambient Temperature	Та	25±2	$^{\circ}$ C			
Ambient Humidity	Ha	50±10	%RH			
Supply Voltage	V_{CC}	3.3	V			
Input Signal	According to typical value in "3. ELECTRICAL CHARACTERISTICS"					
Converter Voltage	V_{i}	12	V			
Converter Duty		100%				

7.2 OPTICAL SPECIFICATIONS

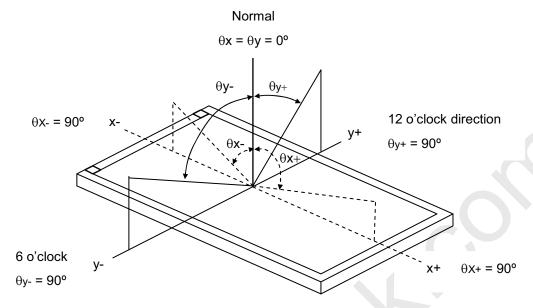
The relative measurement methods of optical characteristics are shown in 7.2. The following items should be measured under the test conditions described in 7.1 and stable environment shown in Note (5).

Iter	n	Symbol	Condition	Min.	Тур.	Max.	Unit	Note	
	Red	Rx			0.604				
	Red	Ry		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$					
Color	Green	Gx			0.338				
Color	Green	Gy	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		(1) (5)				
Chromaticity	Blue	Вх	θ _v =0°. θ _v =0°	0.05	0.148	0.05	_	(1), (5)	
	blue	Ву			0.098				
	\\/\=:4=	Wx		0.313 0.329					
	White	Wy			0.329				
Center Luminance of White		L _C		200	250		cd/m ²	(4), (5)	
Contrast Ratio		CR		450	700		-	(2), (5)	
Response Time		T _R	0 -00 0 -00	-	5	10	me	(3)	
Response fille		T _F	θ _χ -υ , θγ -υ	-	11	16	- ms	(3)	
White Variation		δW	θ_x =0°, θ_Y =0° USB2000	-	1.25	1.33	-	(5), (6)	
	Horizontal	θ_{x} +		70	80	ı			
Viewing Angle	Tiorizoniai	θ_{x} -	$CR \geqq 10$	70	80	-	Dog	(1) (5)	
Viewing Angle	Vertical	θ _Y +	USB2000	50	70	-	Deg.	(1), (5)	
	vertical	θ _Y -		50	70	-			

Version 1.0 10 MAY 2012 17 / 27



Note (1) Definition of Viewing Angle (θx , θy):



Note (2) Definition of Contrast Ratio (CR):

The contrast ratio can be calculated by the following expression.

Contrast Ratio (CR) = L255 / L0

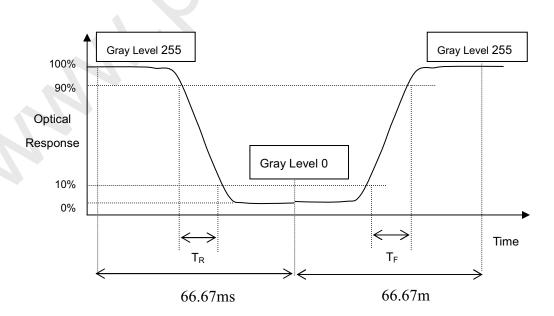
L255: Luminance of gray level 255

L0: Luminance of gray level 0

CR = CR(5)

CR (X) is corresponding to the Contrast Ratio of the point X at Figure in Note (6).

Note (3) Definition of Response Time (T_R, T_F):



10 MAY 2012 18 / 27 Version 1.0

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Note (4) Definition of Luminance of White (L_C):

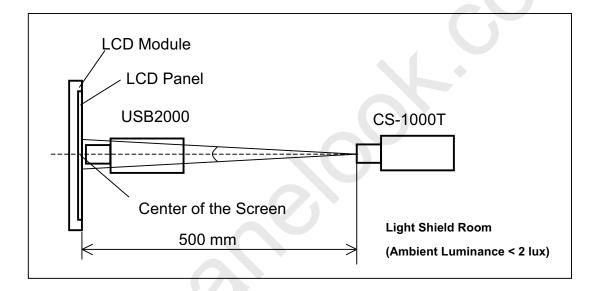
Measure the luminance of gray level 255 at center point

$$L_C = L(5)$$

L(x) is corresponding to the luminance of the point X at Figure in Note (6).

Note (5) Measurement Setup:

The LCD module should be stabilized at given temperature for 20 minutes to avoid abrupt temperature change during measuring. In order to stabilize the luminance, the measurement should be executed after lighting Backlight for 20 minutes in a windless room.



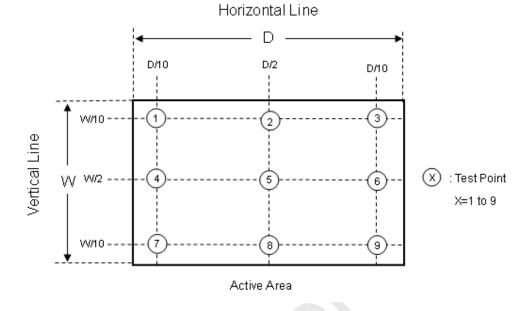
Version 1.0 10 MAY 2012 19 / 27



Note (6) Definition of White Variation (δW):

Measure the luminance of gray level 63 (255) at 9 points

$$\delta W = \frac{\text{Maximum [L (1), L (2), L (3), L (4), L (5), L (6), L (7), L (8), L (9)]}}{\text{Minimum [L (1), L (2), L (3), L (4), L (5), L (6), L (7), L (8), L (9)]}}$$



Version 1.0 10 MAY 2012 20 / 27



8. RELIABILITY TEST CRITERIA

Test Item	Test Condition	Note
High Temperature Storage Test	70°C, 240 hours	
Low Temperature Storage Test	-40°C, 240 hours	
Thermal Shock Storage Test	-30° C, 0.5 hour \longleftrightarrow 70 $^{\circ}$ C, 0.5 hour; 100cycles, 1 hour/cycle)	
High Temperature Operation Test	70°C, 240 hours	(1), (2)
Low Temperature Operation Test	-30℃, 240 hours	
High Temperature & High Humidity Operation Test	60℃, RH 90%, 240 hours	
	150pF, 330 Ω, 1 sec/cycle	
ESD Test (Operation)	Condition 1 : panel contact, ±8 KV	(2)
	Condition 2 : panel non-contact ±15 KV	
Shock (Non-Operating)	50G, 11ms, half sine wave, 1 time for ± X, ± Y, ± Z direction	(2), (3)
Vibration (Non-Operating)	1.5G, 10 ~ 300 Hz sine wave, 10 min/cycle, 3 cycles each X, Y, Z direction	(2), (3)

- Note (1) No condensation of water.
- Note (2) No display malfunction.
- Note (3) At testing Vibration and Shock, the fixture in holding the module has to be hard and rigid enough so that the module would not be twisted or bent by the fixture.
- Note (4) Temperature of panel display surface area should be 90℃ Max.

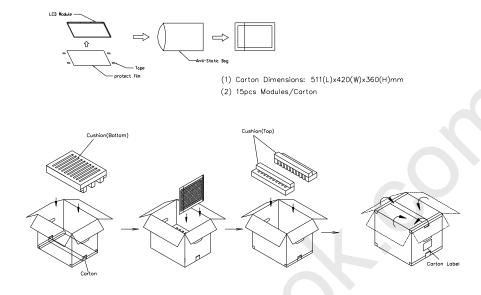
Version 1.0 10 MAY 2012 21 / 27



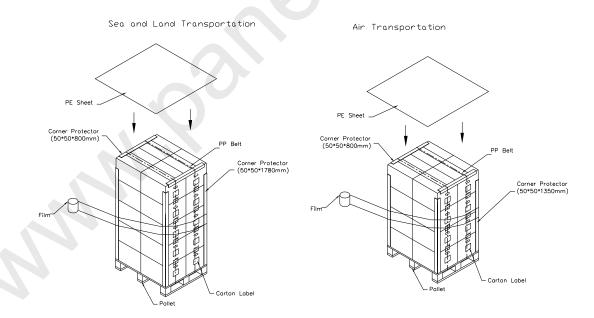


9. PACKAGING

9.1 PACKING SPECIFICATIONS



9.2 PACKING Method



Version 1.0 10 MAY 2012 22 / 27





9.3 UN-PACKING Method

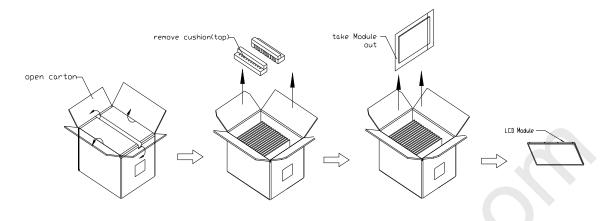


Figure. 9-3 UN-Packing method

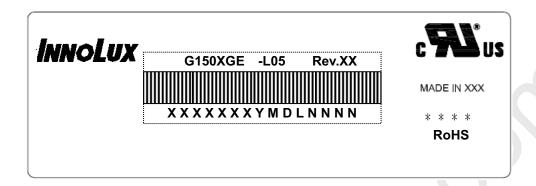
Version 1.0 10 MAY 2012 23 / 27



10. DEFINITION OF LABELS

10.1 INX MODULE LABEL

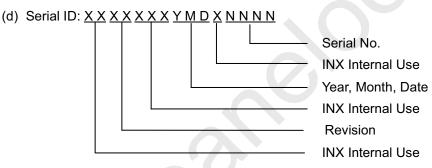
The barcode nameplate is pasted on each module as illustration, and its definitions are as following explanation.



(a) Model Name: G150XGE -L05

(b) Revision: Rev. XX, for example: A1, B1, C1, C2 ...etc.

(c) * * * * : Factory ID



Serial ID includes the information as below:

(a) Manufactured Date: Year: 1~9, for 2011~2019

Month: 1~9, A~C, for Jan. ~ Dec.

Day: 1~9, A~Y, for 1st to 31st, exclude I , O and U

(b) Revision Code: cover all the change

(c) Serial No.: Manufacturing sequence of product

Version 1.0 10 MAY 2012 24 / 27



11. PRECAUTIONS

11.1 ASSEMBLY AND HANDLING PRECAUTIONS

- (1) Do not apply rough force such as bending or twisting to the module during assembly.
- (2) To assemble or install module into user's system can be only in clean working areas. The dust and oil may cause electrical short or worsen the polarizer.
- (3) It's not permitted to have pressure or impulse on the module because the LCD panel and Backlight will be damaged.
- (4) Always follow the correct power sequence when LCD module is connecting and operating. This can prevent damage to the CMOS LSI chips during latch-up.
- (5) Do not pull the I/F connector in or out while the module is operating.
- (6) Do not disassemble the module.
- (7) Use a soft dry cloth without chemicals for cleaning, because the surface of polarizer is very soft and easily scratched.
- (8) It is dangerous that moisture come into or contacted the LCD module, because moisture may damage LCD module when it is operating.
- (9) High temperature or humidity may reduce the performance of module. Please store LCD module within the specified storage conditions.
- (10) When ambient temperature is lower than 10°C may reduce the display quality. For example, the response time will become slowly.
- (11) Do not keep same pattern in a long period of time. It may cause image sticking on LCD.

11.2 SAFETY PRECAUTIONS

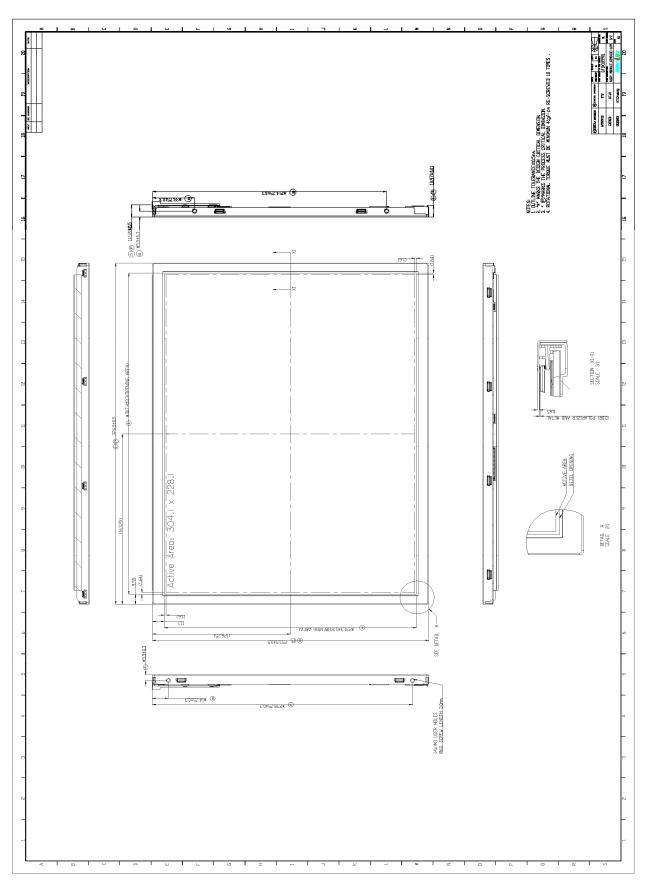
- (1) Do not disassemble the module or insert anything into the Backlight unit.
- (2) If the liquid crystal material leaks from the panel, it should be kept away from the eyes or mouth. In case of contact with hands, skin or clothes, it has to be washed away thoroughly with soap.
- (3) After the module's end of life, it is not harmful in case of normal operation and storage.

Version 1.0 10 MAY 2012 25 / 27





12. MECHANICAL CHARACTERISTICS

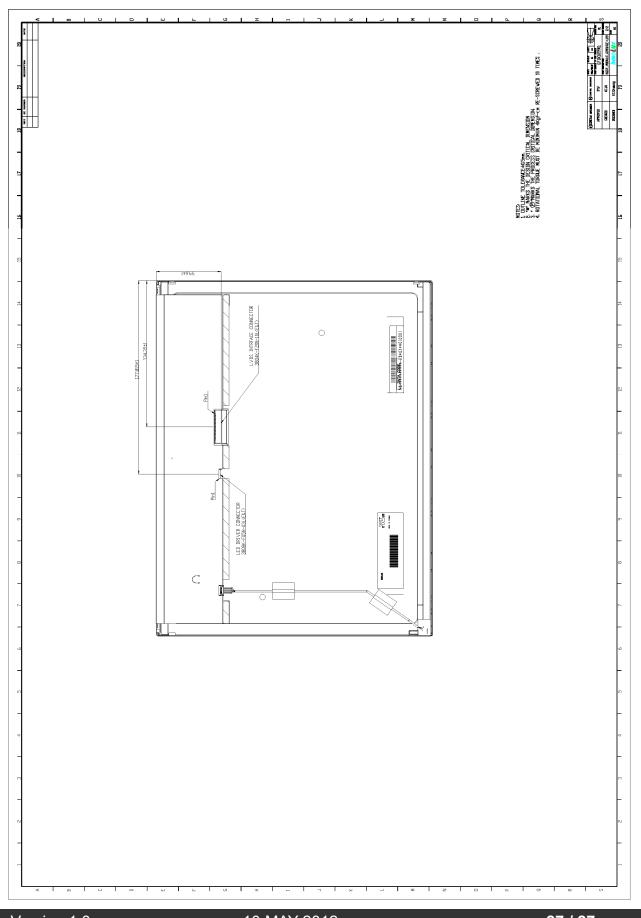


Version 1.0 10 MAY 2012 26 / 27

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