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# REVISION HISTORY

		TALVIOIOTA THOTOTAL		
REV.	ECN NO.	DESCRIPTION OF CHANGES	DATE	PREPARED
РО		Initial Release	10.12.30	金在光
P1		量产对应 Release	11.2.15	金在 光
P2		BL CN modify	11.3.23	石美霞
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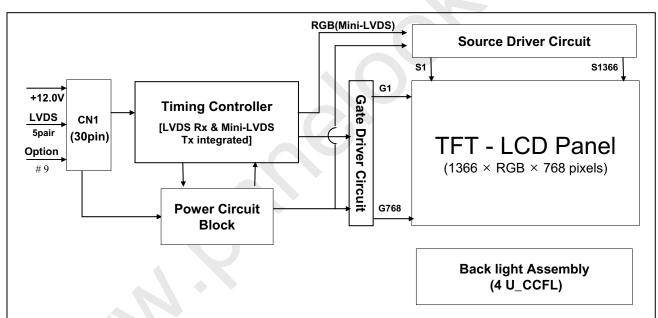
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### 1.0 GENERAL DESCRIPTION

#### 1.1 Introduction

HT260WXC-100 is a color active matrix TFT LCD module using amorphous silicon TFT's (Thin Film Transistors) as an active switching devices. This module has a 26.0inch diagonally measured active area with WXGA resolutions (1366 horizontal by 768 vertical pixel array). Each pixel is divided into RED, GREEN, BLUE dots which are arranged in vertical stripe and this module can display 16.7M colors. The TFT-LCD panel used for this module is adapted for a low reflection and higher color type.



### 1.2 Features

- LVDS Interface with 1 pixel / clock
- High-speed response
- Lower Color shift Image Quality
- 6-bit Hi-FRC color depth, display 16.7M colors
- High luminance and contrast ratio, low reflection and wide viewing angle
- DE (Data Enable) only mode
- RoHS Compliant



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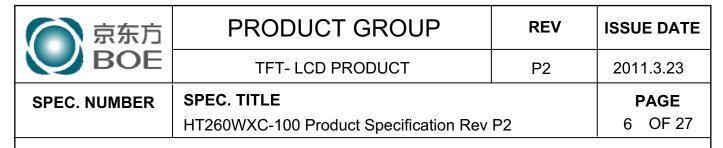
## 1.3 Application

- Home Alone Multimedia TFT-LCD TV
- Display Terminals for Control System
- High Definition TV(HD TV)
- AV application Products

## 1.4 General Specification

< Table 1. General Specifications >

Parameter	Specification	Unit	Remarks
Active area	575.769(W) x 323.712(H)	mm	
Number of pixels	1366(H) ×768(V)	pixels	
Pixel pitch	$140.5(H) \times RGB \times 421.5(V)$	<i>μ</i> m	
Pixel arrangement	Pixels RGB stripe arrangement		
Display colors	16.7M(6bits + Hi FRC)	colors	
Display mode	Transmission mode, Normally White		
Outline Dimension	$626.0(H) \times 373.0(V) \times 32.0(D) \text{ (typ.)}$	mm	
Weight	3700 (typ.)	gram	
Power Consumption	Total 40.6Watt (Typ.) (Logic=2W, Lamp=38.6W [I <sub>BL</sub> =7mA])	Watt	
Surface Treatment	Haze 25%, 3H, Semi-glare treatment (Front Polarizer)		



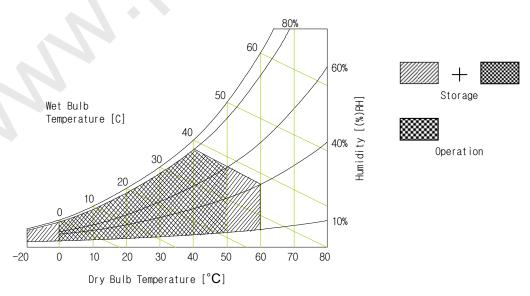
### 2.0 ABSOLUTE MAXIMUM RATINGS

The followings are maximum values which, if exceed, may cause faulty operation or damage to the unit. The operational and non-operational maximum voltage and current values are listed in Table 2.

> < Table 2. LCD Module Electrical Specifications > [VSS=GND=0V]

					[VSS=GND=0V]
Parameter	Symbol	Min.	Max.	Unit	Remarks
Power Supply Voltage	VDD	VSS-0.3	13	V	Ta = 25 ℃
Back-light Lamp Current	IBL	6.0	9.0	mArms	
Back-light Lamp Frequency	FL	40	80	KHz	
Operating Temperature	$T_{OP}$	0	+50	${\mathbb C}$	
	$T_{SUR}$	0	+60	${\mathbb C}$	
Storage Temperature	$T_{ST}$	-20	+60	${\mathbb C}$	1)
Operating Ambient Humidity	Нор	10	80	%RH	
Storage Humidity	Hst	10	80	%RH	

Note: 1) Temperature and relative humidity range are shown in the figure below. Wet bulb temperature should be 39 °C max. and no condensation of water.





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## 3.0 ELECTRICAL SPECIFICATIONS

< Table 3. LCD Module Electrical Specifications >

[Ta =  $25 \pm 2$  °C]

	Danamatan	Crombal		Values		T1:4	Nadas	
	Parameter	Symbol	Min	Тур	Max	Unit	Notes	
Power Su	pply Input Voltage	VDD	11.4	12	12.6	V		
Power Su	pply Ripple Voltage	VRP			300	mV		
Power Su	pply Current	IDD	-	170	300	mA	1	
Power Co	onsumption of VDD	PDD	-	2	3.5	Watt		
Rush curr	ent	IRUSH	-	-	3.0	A	2	
LVDC	Differential Input High Threshold Voltage	VLVTH	+100			mV		
LVDS Interface	Differential Input Low Threshold Voltage	VLVTL			-100	mV		
	Common Input Voltage	VLVC	1.0	1.2	1.4	V		
CMOS	Input High Threshold Voltage	VIH	2.7	-	3.3	V		
Interface	Input Low Threshold Voltage	VIL	0	-	0.7	V		
Back-ligh	t Lamp Voltage	VBL	1242	1380	1518	Vrms	IBL=7.0 mA	
Back-ligh	t Lamp Current	IBL	6.5	7.0	7.5	mArms		
Back-ligh Frequency	t Lamp operating	FL	40	-	80	KHz	3	
I Ct.	X7 - 14	<b>T</b> 7	-	-	2200	Vrms	25℃,4	
Lamp Start Voltage		Vs	-	-	2400	Vrms	0℃,4	
Lamp Life		T	50,000	-	-	Hrs	IBL=7.0mA, 5	
Power Co	onsumption of BL	PBL	-	38.6	-	W	IBL=7.0mA, 6	

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### Notes:

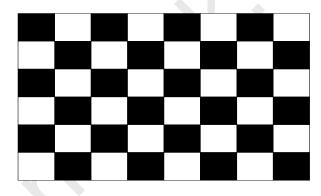
1. The supply voltage is measured and specified at the interface connector of LCM. The current draw and power consumption specified is for VDD=12.0V, Frame rate=60Hz and Clock frequency = 75.4MHz. Test Pattern of power supply current

a) Typ: Black Patternb) Max: Sub Dot Pattern

2. The duration of rush current is about 2ms and rising time of Power Input is 1ms(min)

White: 255Gray Black: 0Gray

Mosaic Pattern(8 x 6)



- 3. The frequency range can be keep within  $\pm 10\%$  range of electrical and optical characteristics. (except the chromaticity)
- 4. Output voltage of test circuit in order to stabilize discharge in tube. Lamp and test circuit should be left at the above standard conditions over 1Hr.
- 5. The lifetime is judged to be over when any situation mentioned below occurs:
  - When the central lamp luminance decline to 50% of the initial luminance.
  - When the lamp starting voltage is 10% higher than its specification
- 6. Calculated value for reference (VBL  $\times$  IBL)  $\times$ 4 excluding inverter loss

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### 4.0 INTERFACE CONNECTION

- 4.1 Module Input Signal & Power
- Connector : IS100-L30B-C23(Manufactured by UJU) or Equivalent.

< Table 4. LCM Module Input Connector Pin Configuration >

Pin No	Symbol	Description	Pin No	Symbol	Description
1	VDD	Power Supply +12.0V	16	RX1+	LVDS Receiver Signal(+)
2	VDD	Power Supply +12.0V	17	GND	Ground
3	VDD	Power Supply +12.0V	18	RX2-	LVDS Receiver Signal(-)
4	VDD	Power Supply +12.0V	19	RX2+	LVDS Receiver Signal(+)
5	GND	Ground	20	GND	Ground
6	GND	Ground	21	RCLK-	LVDS Receiver Clock Signal(-)
7	GND	Ground	22	RCLK+	LVDS Receiver Clock Signal(+)
8	GND	Ground	23	GND	Ground
9	LVDS_SEL	'L'=JEIDA , 'H'or NC= VESA	24	RX3-	LVDS Receiver Signal(-)
10	NC	No Connection	25	RX3+	LVDS Receiver Signal(+)
11	GND	Ground	26	GND	Ground
12	RX0-	LVDS Receiver Signal(-)	27	NC	No Connection
13	RX0+	LVDS Receiver Signal(+)	28	NC	No Connection
14	GND	Ground	29	GND	Ground
15	RX1-	LVDS Receiver Signal(-)	30	GND	Ground

Notes: 1. NC(Not Connected): This pins are only used for BOE internal operations.

2. Input Level of LVDS signal is based on the IEA 664 Standard.

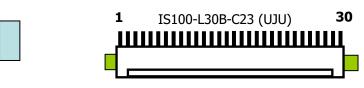
3. LVDS\_SEL: This pin is used for selecting LVDS signal data format.

If this Pin: High (3.3V) or Open (NC) → Normal NS LVDS format

Otherwise : Low (GND) → JEIDA LVDS format

Sequence : On = Vdd  $\geq$  LVDS Option  $\geq$  Interface signal Off = Interface signal  $\geq$  LVDS Option  $\geq$  Vdd

#### **Rear view of LCM**

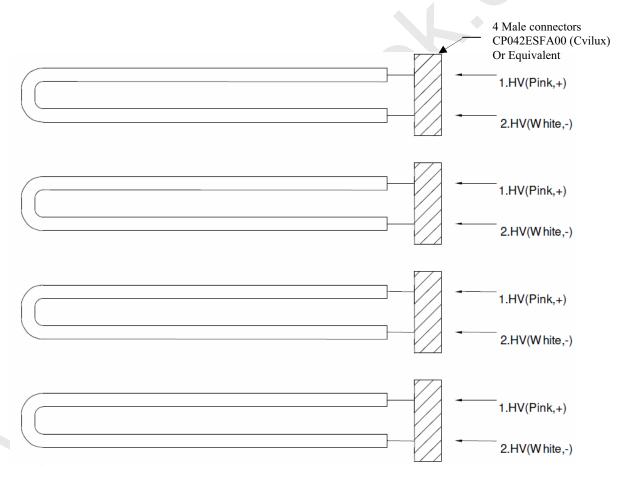


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## 4.2 Back-light Interface Connection

Module Side Connector: CP0404SL000 (Cvilux) or Equivalent User Side Connector : CP042EP1ML0-NH (Cvilux) or Equivalent

Pin No.	Symbol	Description	Wire Color
1	HV	High Voltage	pink
2	HV	High Voltage	white





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## 4.3 LVDS Interface

- LVDS Receiver : Timing Controller (LVDS Rx merged)

- LVDS Data : Pixel Data

< Table 5. LCM Module Input Connector Pin Configuration >

	LVDS Pin	Vesa Data format	JEIDA Data format	Remark
	TxIN/RxOUT0	Red0 [LSB]	R2	
	TxIN/RxOUT1	Red1	R3	
	TxIN/RxOUT2	Red2	R4	
TxOUT/RxIN0	TxIN/RxOUT3	Red3	R5	
	TxIN/RxOUT4	Red4	R6	
	TxIN/RxOUT6	Red5	R7 [MSB]	
	TxIN/RxOUT7	Green0 [LSB]	G2	
	TxIN/RxOUT8	Green1	G3	
	TxIN/RxOUT9	Green2	G4	
	TxIN/RxOUT12	Green3	G5	
TxOUT/RxIN1	TxIN/RxOUT13	Green4	G6	
	TxIN/RxOUT14	Green5	G7 [MSB]	
	TxIN/RxOUT15	Blue0 [LSB]	B2	
	TxIN/RxOUT18	Blue1	В3	
	TxIN/RxOUT19	Blue2	B4	
	TxIN/RxOUT20	Blue3	B5	
	TxIN/RxOUT21	Blue4	В6	
TxOUT/RxIN2	TxIN/RxOUT22	Blue5	B7 [MSB]	
	TxIN/RxOUT24	HSYNC	HSYNC	
	TxIN/RxOUT25	VSYNC	VSYNC	
	TxIN/RxOUT26	DEN	DEN	
	TxIN/RxOUT27	Red6	R0 [LSB]	
	TxIN/RxOUT5	Red7 [MSB]	R1	
	TxIN/RxOUT10	Green6	G0 [LSB]	
TxOUT/RxIN3	TxIN/RxOUT11	Green7 [MSB]	G1	
	TxIN/RxOUT16	Blue6	B0 [LSB]	
	TxIN/RxOUT17	Blue7 [MSB]	B1	
	TxIN/RxOUT23	Reserved	Reserved	



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## **5.0 SIGNAL TIMING SPECIFICATION**

5.1 Timing Parameters ( DE only mode)

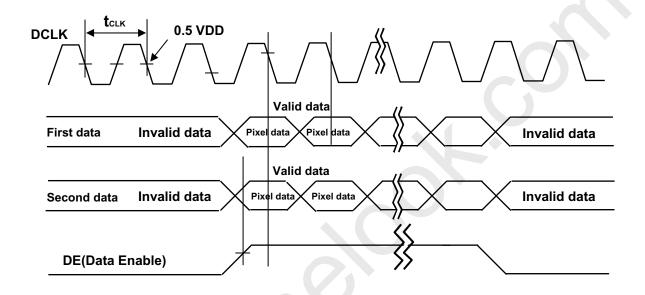
< Table 6. Timing Table >

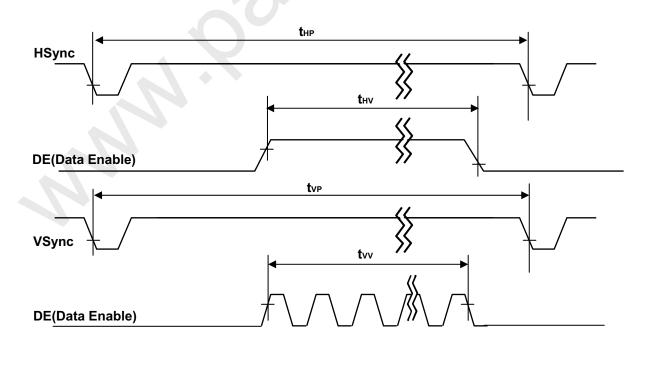
ITEM	Symbol		Min	Тур	Max	Unit	Note
CLK	Period	$t_{CLK}$	11.8	13.3	17.9	ns	
CLK	Frequency	-	56	75.4	85.0	MHz	
Ugyma	Period	$t_{HP}$	1442	1560	1936	$t_{CLK}$	
Hsync	Frequency	$f_H$	39.4	48.4	53	KHz	
Veyna	Period	t <sub>VP</sub>	778	806	888	t <sub>HP</sub>	
Vsync	Frequency	$f_V$	50	60	65	Hz	
Horizontal Active	Valid	$t_{HV}$	-	1366	-	$t_{CLK}$	
Display Term	Total	t <sub>HP</sub>	1442	1560	1936	$t_{CLK}$	
Vertical Active	Valid	$t_{VV}$	-	768	-	t <sub>HP</sub>	
Display Term	Total	$t_{VP}$	778	806	888	t <sub>HP</sub>	

Notes: This product is DE only mode. The input of Hsync & Vsync signal does not have an effect on normal operation.

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## 5.2 Signal Timing Waveform





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## 5.3 Input Signals, Basic Display Colors & Gray Scale Of Colors

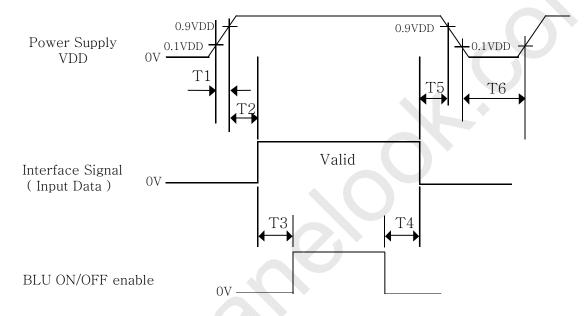
< Table 7. Input Signal and Display Color Table >

Colom & C	way Caala									Inj	out			Sign											
Color & G	ray Scale				led									ı D								Da			
		R7	R6	R5	R4	R3	R2	R1	R0	G7	G6	G5	G4	G3	G2	G1	G0	В7	В6	В5	B4	В3	B2	В1	В
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	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
	Green	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	(
Dagia Calara	Cyan	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Basic Colors	Red	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	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	(
	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
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	Δ	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
	Darker	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Gray Scale	$\triangle$													$\uparrow$								1			_
of Red	$\nabla$				,	l							,	$\downarrow$							,	Į .			
011100	Brighter	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	$\nabla$	1	1	1	1	1.	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	C
	Red	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Ī	$\triangle$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	(
Gray Scale	Darker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	(
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of Green	$\nabla$				,	ĺ								Ì								Ĺ			_
	Brighter	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1	0	0	0	0	0	0	0	(
Ī	$\nabla$	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	(
Ī	Green	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	0	0	0	0	0	0	0	(
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
Ī		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Darker	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	(
Gray Scale	Δ					1								<u> </u>								1			_
of Blue	$\nabla$				,	l																Ĺ			_
of Blue	Brighter	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	0	1
	$\nabla$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	(
	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
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(
ļ	$\triangle$	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	
Gray Scale	Darker	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	(
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of White	$\nabla$					Ĺ								Ĺ						_					
ļ	Brighter	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1
ļ	$\nabla$	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	0	1	1	1	1	1	1	1	(
F	White	1	1	1	1	1	1	Ė	1	1	1	1	1	÷	1	1	1	1	1	1	1	1	1	1	1

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## 5.4 Power Sequence

To prevent a latch-up or DC operation of the LCD module, the power on/off sequence shall be as shown in below



< Table 8. Sequence Table >

Danamatan	Values			Tī
Parameter	Min	Тур	Max	Units
T1	0.5	-	20	ms
T2	0	-	50	ms
T3	200	-	-	ms
T4	200	-	-	ms
T5	0	-	100	ms
Т6	1	-	_	S

#### Notes:

- 1. When the power supply VDD is 0V, Keep the level of input signals on the low or keep high impedance.
- 2. Do not keep the interface signal high impedance when power is on.
- 3. Back Light must be turn on after power for logic and interface signal are valid.



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### 6.0 OPTICAL SPECIFICATION

The test of Optical specifications shall be measured in a dark room (ambient luminance  $\leq 1$  lux and temperature  $= 25\pm 2\,^{\circ}\text{C}$ ) with the equipment of Luminance meter system (Goniometer system and TOPCON BM-5) and test unit shall be located at an approximate distance 50cm from the LCD surface at a viewing angle of  $\Theta$  and  $\Phi$  equal to  $0^{\circ}$ . We refer to  $\Theta_{\emptyset=0}$  ( $=\Theta_3$ ) as the 3 o'clock direction (the "right"),  $\Theta_{\emptyset=90}$  ( $=\Theta_1$ ) as the 12 o'clock direction ("upward"),  $\Theta_{\emptyset=180}$  ( $=\Theta_9$ ) as the 9 o'clock direction ("left") and  $\Theta_{\emptyset=270}$  ( $=\Theta_6$ ) as the 6 o'clock direction ("bottom"). While scanning  $\Theta$  and/or  $\emptyset$ , the center of the measuring spot on the Display surface shall stay fixed. The measurement shall be executed after 30 minutes warm-up period. VDD shall be 12.0V +/-10% at 25°C. Optimum viewing angle direction is 6 'clock.

< Table 9. Optical Table >

Parameter		Symbol	Condition	Min	Тур	Max	Unit	Remark
	TT ' 4 1	$\Theta_3$			80		Deg.	
Viewing Angle	Horizontal	$\Theta_9$	CD > 10		80		Deg.	Nata 1
Aligic	Vertical	$\Theta_{12}$	CR > 10		80		Deg.	Note 1
	vertical	$\Theta_6$			70		Deg.	
Color Te	mperature			-	10,000		K	
Color	Gamut			70	72		%	
Contra	ast ratio	CR		600:1	800:1	-		Note 2
Luminanc	e of White	$Y_{\rm w}$		340	400	-	cd/m <sup>2</sup>	Note 3
White lumina	nce uniformity	ΔΥ		75	80		%	Note 4
	White	W <sub>x</sub>			0.280			
	white	$W_{v}$	⊖ = 0°		0.290			
	Red	R <sub>x</sub>	(Center)		0.636			
Reproduction	Keu	$R_{y}$	Normal	TYP.	0.335	TYP.		Note 5
of color	Green	$G_{x}$	Viewing Angle	- 0.03	0.291	+ 0.03		
	Green	$G_{y}$	1 211814		0.603			
	Blue	$B_{x}$			0.146			
	Blue	$B_{y}$			0.061			
Response Time		$T_{g}$		-	5	10	ms	Note 6
Gamm	a Scale			2.0	2.2	2.4		

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### Note:

- 1. Viewing angle is the angle at which the contrast ratio is greater than 10. The viewing are determined for the horizontal or 3, 9 o'clock direction and the vertical or 6, 12 o'clock direction with respect to the optical axis which is normal to the LCD surface.
- 2. Contrast measurements shall be made at viewing angle of  $\theta$ = 0° and at the center of the LCD surface. Luminance shall be measured with all pixels in the view field set first to white, then to the dark (black) state. (See FIGURE 1 shown in Appendix) Luminance Contrast Ratio (CR) is defined mathematically.

CR = Luminance when displaying a white raster

Luminance when displaying a black raster

- 3. Center Luminance of white is defined as the LCD surface. Luminance shall be measured with all pixels in the view field set first to white. This measurement shall be taken at the locations shown in FIGURE 2 for a total of the measurements per display.
- 4. The White luminance uniformity on LCD surface is then expressed as :  $\Delta Y = ($  Minimum Luminance of 5points / Maximum Luminance of 5points ) \* 100 (See FIGURE 2 shown in Appendix).
- 5. The color chromaticity coordinates specified in Table 9. shall be calculated from the spectral data measured with all pixels first in red, green, blue and white. Measurements shall be made at the center of the panel.
- 6. The electro-optical response time measurements shall be made as FIGURE 3 shown in Appendix by switching the "data" input signal ON and OFF. The times needed for the luminance to change from 10% to 90% is Td, and 90% to 10% is Tr.



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## 7.0 MECHANICAL CHARACTERISTICS

## 7.1 Dimensional Requirements

FIGURE 4 (located in Appendix) shows mechanical outlines for the model HT260WXC-100. Other parameters are shown in Table 10.

<Table 10. Dimensional Parameters>

Parameter	Specification	Unit
Dimensional outline	$626.0(H) \times 373.0(V) \times 32.0(D)$	mm
Weight	3700 (typ)	gram
Active area	575.769(W) x 323.712(H)	mm
Pixel pitch	$0.4215(H) \times 0.4215(V)$	mm
Number of pixels	1366(H) $\times$ 768(V) (1 pixel = R + G + B dots)	pixels
Back-light	Direct Light 4 U_CCFL type	

## 7.2 Mounting

See FIGURE 5. (shown in Appendix)

### 7.3 Semi-Glare and Polarizer Hardness.

The surface of the LCD has an semi-glare coating to minimize reflection and a coating to reduce scratching.



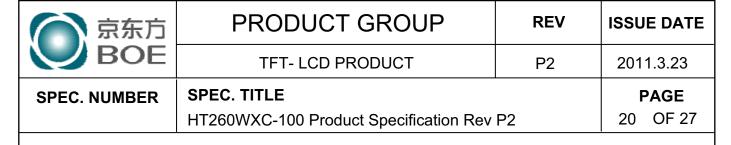
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## 8.0 RELIABLITY TEST

The Reliability test items and its conditions are shown in below.

<Table 11. Reliability Test Parameters >

No	Test Items	Conditions
1	High temperature storage test	$Ta = 60  ^{\circ}\text{C}, 240  \text{hrs}$
2	Low temperature storage test	$Ta = -20 ^{\circ}\text{C}$ , 240 hrs
3	High temperature & high humidity operation test	Ta = 50 °C, 80%RH, 240hrs
4	High temperature operation test	$Ta = 50 ^{\circ}\text{C}$ , 240hrs
5	Low temperature operation test	$Ta = 0 ^{\circ}\text{C}, 240 \text{hrs}$
6	Thermal shock	$Ta = -20 ^{\circ}\text{C} \leftrightarrow 60 ^{\circ}\text{C}  (0.5 \text{ hr}), 100 \text{ cycle}$
7	Vibration test (non-operating)	Frequency : $10 \sim 300$ Hz, Sweep rate 10 min  Gravity / AMP : 1.5 G Sine  Period : X, Y, Z 30 min
8	Shock test (non-operating)	Gravity : $50G$ Pulse width : $11$ msec, Sine wave $\pm X, \pm Y, \pm Z$ Once for each direction
9	Electro-static discharge test	Air : $\pm 15 \text{kV}$ , $50 \text{pF}/330 \Omega$ , $100 \text{Point}$ , $1 \text{time/Point}$ Contact : $\pm 8 \text{kV}$ , $150 \text{pF}/330 \Omega$ , $100 \text{Point}$ , $1 \text{time/Point}$



## 9.0 Product Serial Number



MADE IN CHINA

XXXXXXXXXXXXXXXXX

Type

No 1, Control

No 2, Rank

No 3, Line Classification(BOE HYDIS: H, LCM: L, BOE OT: A/B/C)

No 4, Year(2001:01, 2002:02, --)

No 5, Month(1, 2, 3, ..., 9 X, Y, Z)

No 6, FG Code

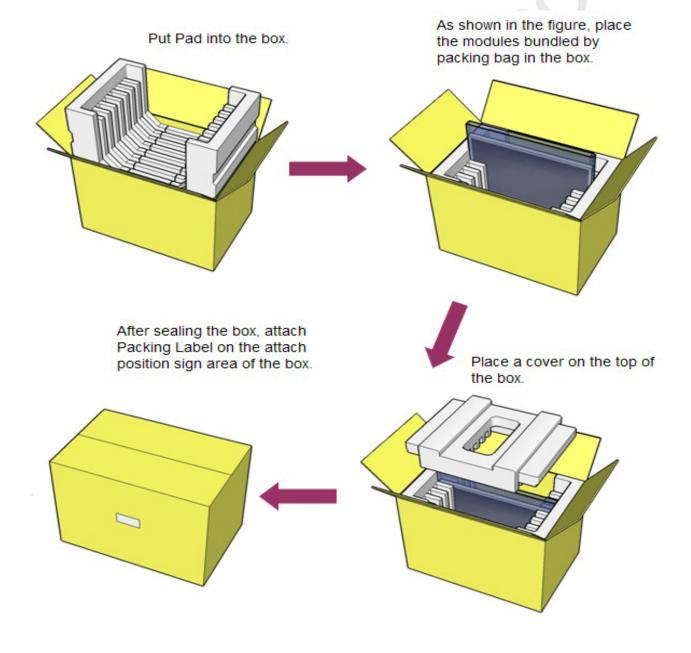
No 7, Serial No.

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### 10.0 PACKING INFORMATION

BOE provides the standard shipping container for customers, unless customer specifies their packing information. The standard packing method and Barcode information are shown in below.

## 10.1 Packing Order



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## 10.2 Packing Note

Box Dimension: 740L× 434W× 467H
Package Quantity in one Box: 6pcs

### 10.3 Box label

• Label Size : 108 mm (L) 56 mm (W)

Contents

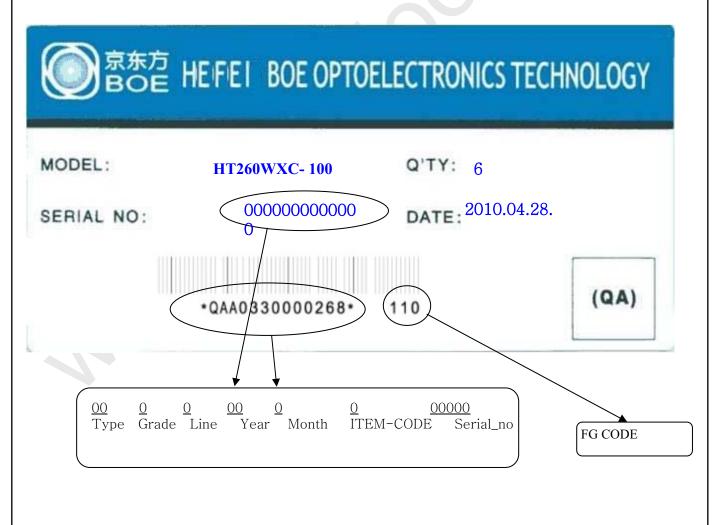
Model: HT2600WXC

Q'ty: 6 Module in one box.

Serial No.: Box Serial No. See next page for detail description.

Date : Packing Date

FG Code : FG Code of Product



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## 11.0 HANDLING & CAUTIONS

- (1) Cautions when taking out the module
  - Pick the pouch only, when taking out module from a shipping package.
- (2) Cautions for handling the module
  - As the electrostatic discharges may break the LCD module, handle the LCD module with care. Peel a protection sheet off from the LCD panel surface as slowly as possible.
  - As the LCD panel and back light element are made from fragile glass material, impulse and pressure to the LCD module should be avoided.
  - As the surface of the polarizer is very soft and easily scratched, use a soft dry cloth without chemicals for cleaning.
  - Do not pull the interface connector in or out while the LCD module is operating.
  - Put the module display side down on a flat horizontal plane.
  - Handle connectors and cables with care.
- (3) Cautions for the operation
  - When the module is operating, do not lose CLK, ENAB signals. If any one of these signals is lost, the LCD panel would be damaged.
  - Obey the supply voltage sequence. If wrong sequence is applied, the module would be damaged.
- (4) Cautions for the atmosphere
  - Dew drop atmosphere should be avoided.
  - Do not store and/or operate the LCD module in a high temperature and/or humidity atmosphere. Storage in an electro-conductive polymer packing pouch and under relatively low temperature atmosphere is recommended.
- (5) Cautions for the module characteristics
  - Do not apply fixed pattern data signal to the LCD module at product aging.
  - Applying fixed pattern for a long time may cause image sticking.
- (6) Other cautions
  - Do not disassemble and/or re-assemble LCD module.
  - Do not re-adjust variable resistor or switch etc.
  - When returning the module for repair or etc., Please pack the module not to be broken. We recommend to use the original shipping packages.

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## 12.0 APPENDIX

Figure 1. Measurement Set Up

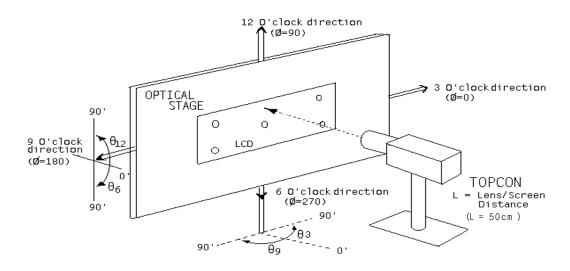
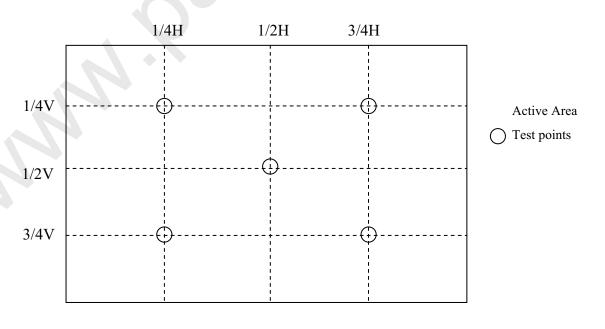


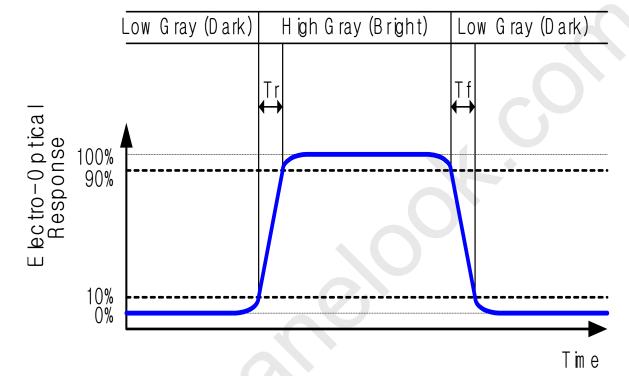
Figure 2. White Luminance and Uniformity Measurement Locations





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Figure 3. Response Time Testing



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Figure 4. TFT-LCD Module Outline Dimensions (Front view) 9'09'F'ZZ SOFF ZZE 4.USER MOUNTING TORQUE SPEC: 4~5kgf.cm 3.INVERTER CONNECTOR SPECIFICATION 2.1/F CONNECTOR SPECIFICATION IS100-L30B-C23 or equivalent 1.Unspecified tolerances are to be ±1.0mm. Cvilux CI0114M1HRL-LF or equivalent

B2010-6011-O(3/3) A4(210 X 297)

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Figure 5. TFT-LCD Module Outline Dimensions (Rear view)

