



**LITEMAX**  
**SSD3825**  
Spanpixel

Sunlight Readable 38" LCD Display

(2<sup>nd</sup> Edition 9/23/2011 )

All information is subject to change without notice.

Approved by	Checked by	Prepared by

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## RECORD OF REVISION

Version	Date	Description	Remark
V1.0	7/15/2010	Initial Release	
V2.0	11/16/2010	AD8668 change to AD2662	

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## 1.0 GENERAL DESCRIPTION

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### 1.1 OVERVIEW

The SSD3825 is a 38 inch color TFT-LCD display with special aspect ratio 16:4.2 and XGA wide resolution 1920 x 502 (1920 horizontal by 502 vertical pixel array). It is Litemax's Spanpixel series product which designed for high brightness 1000 nits sunlight readable display, power efficiency LED backlight system and fanless display. The SSD3825 build in AD board supports input ports VGA and DVI-D, optional ports are component (YCbCr), composite (AV) and S-video input.

Each pixel is divided into Red, Green and Blue sub-pixels or dots which are arranged in vertical stripes. Gray scale or the brightness of the sub-pixel color is determined with 8-bit & 10-bit gray scale signal for each dot. It is intended to support display where wide viewing angle, high color saturation, and high color depth.

### 1.2 FEATURES

- 38" Resizing LCD
- Ultra Wide Screen (16:4.2)
- 1000nits Sunlight Readable
- LED Backlight
- Low Power Consumption
- High Uniformity
- Wide Dimming
- Slim Bezel
- Life Expectancy (70,000/hrs)

### 1.3 APPLICATION

- Out/Indoor Display
- Out/Indoor Digital Signage
- Quick Service Restaurant Display Product
- Transportation

### 1.4 GENERAL SPECIFICATIONS

Model No.	SSD3825
LCD Display	38" Resizing LCD
Display Area (mm)	930.2 (H) x 243.2 (V)
Display Surface	Non-glare hard coated
Luminance	1000 cd/m <sup>2</sup>
Resolution	1920 x 502
Contrast Ratio	1400 : 1 (Typ)
Display Colors	1073M colors
Pixel Arrangement	RGB (Red, Green, Blue) vertical stripe
Pixel Pitch (mm)	0.4845mm
Response Time	5ms (Typ.)
Signal Connector	15 Pin D-sub, 29 Pin DVI
F/R Control Button	Power Switch, Menu, Select (+,-)
OSD Menu	Brightness, Contrast, H/V Position, Color, Phase, Clock, Language, Management
Power Consumption	101W
Option	Touch for customize (Resistive/ Capacitive)

※ Specifications subject to change without notice.

## 2.0 ELECTRICAL CHARACTERISTICS

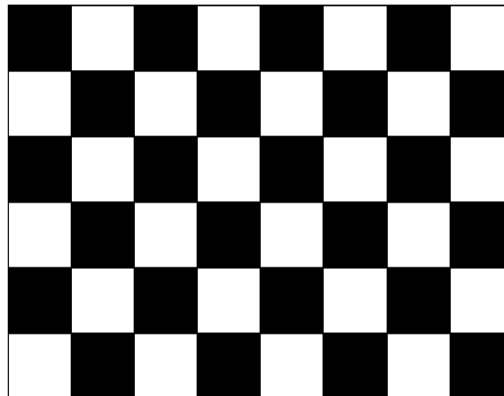
### 2.1 ELECTRICAL CHARACTERISTICS

Parameter	Symbol	Value			Unit	Note
		Min	Typ	Max		
Circuit :						
Power Input Voltage	V <sub>LCD</sub>	10.8	12.0	13.2	VDC	
Power Input Current	I <sub>LCD</sub>	-	562	731	mA	1
		-	795	1034	mA	2
Power Consumption	P <sub>LCD</sub>	-	6.75	8.78	Watt	1
Rush current	I <sub>RUSH</sub>	-	-	3.0	A	3

- Notes :
1. The specified current and power consumption are under the  $V_{LCD}=12.0V$ ,  $25 \pm 2^{\circ}C$ ,  $f_V=60Hz$  condition whereas mosaic pattern(8 x 6) is displayed and  $f_V$  is the frame frequency.
  2. The current is specified at the maximum current pattern.
  3. The duration of rush current is about 2ms and rising time of power input is 0.5ms (min.).

White : 1023Gray

Black : 0Gray



Mosaic Pattern(8 x 6)

Item	Symbol	Conditions	MIN	TYP	MAX.	Unit
Input Voltage	Vin		23.0		24.0	V
Input Current (Low Brightness)	IinL	VIN=VCC, Vadj=5V	0.0	-----	-----	mA
Input Current (High Brightness)	IinH	VIN=VCC, Vadj=0V	3.04	2.91	2.77	A
LED Current (Low Brightness)	IoutL	VIN=VCC, Vadj=5V	0.0	-----	-----	Arms
LED Current (High Brightness)	IoutH	VIN=VCC, Vadj=0V	0.830	0.830	0.830	A
			0.830	0.830	0.830	A
			0.830	0.830	0.830	A
			2.49	2.49	2.49	A
Working Frequency	Freq	VIN=VCC, Vadj=0V	517.75	545	572.25	KHZ
PWM Frequency	Freq	VIN=VCC	180	200	220	HZ
Brightness Control	Vadj	Connection of Voltage	0.5	-----	4.8	V
ON/OFF Control	Von/off	Normal Operation	2	-----	5	V
Output Voltage	Vout	VIN=VCC, Vadj=0V	26.23	26.23	26.22	V
			27.01	27.01	27	V
			26.16	26.17	26.17	V
Efficiency	$\eta$	VIN=VCC, Vadj=0V	94.73	94.83	95.14	%
Power Consumption	PBL		-----	90	-----	W
Life time			70,000	-----	-----	Hrs

## 2.2 LCD PANEL SIGNAL PROCESSING BOARD

This LCD module employs two kinds of interface connection, a 51-pin connector is used for the module electronics and a 14-pin connector is used for the integral backlight system.

- LCD Connector(CN1): FI-R51S-HF(manufactured by JAE) or compatible
- Mating Connector : FI-R51HL(JAE) or compatible

### MODULE CONNECTOR(CN1) PIN CONFIGURATION

No	Symbol	Description	No	Symbol	Description
1	GND	Ground	27	Bit Select	'H' or NC= 10bit(D) , 'L' = 8bit
2	NC	No Connection	28	R2AN	SECOND LVDS Receiver Signal (A-)
3	NC	No Connection	29	R2AP	SECOND LVDS Receiver Signal (A+)
4	NC	No Connection	30	R2BN	SECOND LVDS Receiver Signal (B-)
5	NC	No Connection	31	R2BP	SECOND LVDS Receiver Signal (B+)
6	NC	No Connection	32	R2CN	SECOND LVDS Receiver Signal (C-)
7	LVDS Select	'H' =JEIDA , 'L' or NC = VESA	33	R2CP	SECOND LVDS Receiver Signal (C+)
8	VBR EXT	External VBR (From System)	34	GND	Ground
9	OPC OUT	OPC output (From LCM)	35	R2CLKN	SECOND LVDS Receiver Clock Signal(-)
10	OPC Enable	'H' = Enable , 'L' or NC = Disable	36	R2CLKP	SECOND LVDS Receiver Clock Signal(+)
11	GND	Ground	37	GND	Ground
12	R1AN	FIRST LVDS Receiver Signal (A-)	38	R2DN	SECOND LVDS Receiver Signal (D-)
13	R1AP	FIRST LVDS Receiver Signal (A+)	39	R2DP	SECOND LVDS Receiver Signal (D+)
14	R1BN	FIRST LVDS Receiver Signal (B-)	40	R2EN	SECOND LVDS Receiver Signal (E-)
15	R1BP	FIRST LVDS Receiver Signal (B+)	41	R2EP	SECOND LVDS Receiver Signal (E+)
16	R1CN	FIRST LVDS Receiver Signal (C-)	42	Reserved	No connection or GND
17	R1CP	FIRST LVDS Receiver Signal (C+)	43	Reserved	No connection or GND
18	GND	Ground	44	GND	Ground
19	R1CLKN	FIRST LVDS Receiver Clock Signal(-)	45	GND	Ground
20	R1CLKP	FIRST LVDS Receiver Clock Signal(+)	46	GND	Ground
21	GND	Ground	47	NC	No connection
22	R1DN	FIRST LVDS Receiver Signal (D-)	48	VLCD	Power Supply +12.0V
23	R1DP	FIRST LVDS Receiver Signal (D+)	49	VLCD	Power Supply +12.0V
24	R1EN	FIRST LVDS Receiver Signal (E-)	50	VLCD	Power Supply +12.0V
25	R1EP	FIRST LVDS Receiver Signal (E+)	51	VLCD	Power Supply +12.0V
26	Reserved	No connection or GND	-	-	-

- Notes :
1. All GND(ground) pins should be connected together to the LCD module's metal frame.
  2. All  $V_{LCD}$  (power input) pins should be connected together.
  3. All Input levels of LVDS signals are based on the EIA 644 Standard.
  4. Specific pins(pin No. #2~#6) are used for internal data process of the LCD module.  
If not used, these pins are no connection.
  5. Specific pins(pin No. #8~#10) are used for OPC function of the LCD module.  
If not used, these pins are no connection. (Please see the Appendix V for more information.)
  6. LVDS pin (pin No. #24,25,40,41) are used for 10Bit(D) of the LCD module.  
If used for 8Bit(R), these pins are no connection.
  7. Specific pin No. #44 is used for "No signal detection" of system signal interface.  
It should be GND for NSB(No Signal Black) during the system interface signal is not.  
If this pin is "H", LCD Module displays AGP(Auto Generation Pattern).

### 2.3 Absolute Maximum Ratings

The following items are maximum values which, if exceeded, may cause faulty operation or damage to the LCD module.

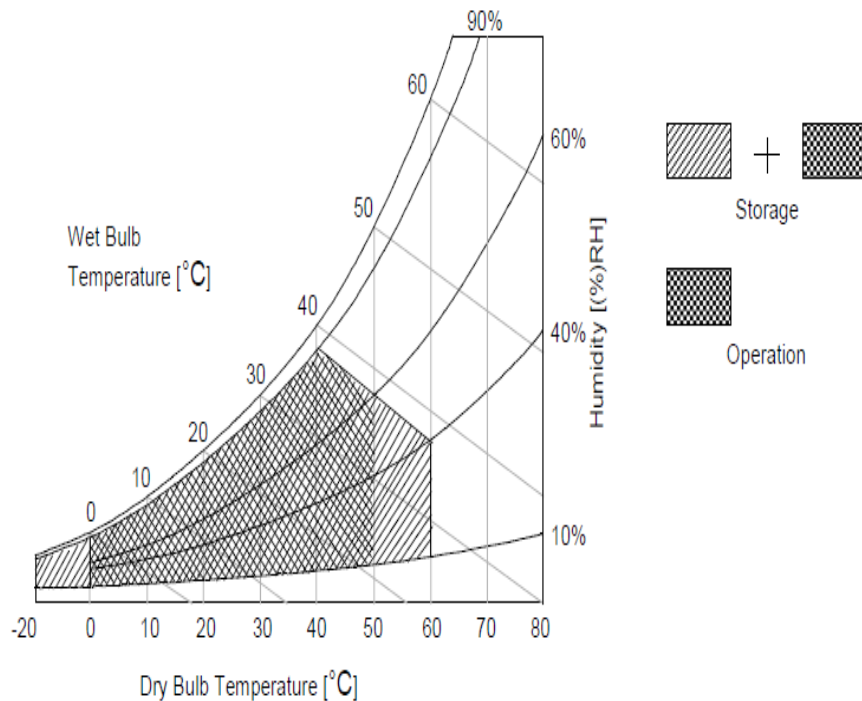
#### Absolute Maximum ratings

Parameter		Symbol	Value		Unit	Remark
			Min	Max		
Power Input Voltage	LCM	V <sub>LCD</sub>	-0.3	+14.0	VDC	at 25 ± 2 °C
	Backlight inverter	V <sub>BL</sub>	-0.3	+27.0	VDC	
ON/OFF Control Voltage		V <sub>ON/OFF</sub>	-0.3	+5.5	VDC	
Brightness Control Voltage		V <sub>BR</sub>	0	+5.0	VDC	
Operating Temperature		T <sub>OP</sub>	0	+50	°C	Note 1,2
Storage Temperature		T <sub>ST</sub>	-20	+60	°C	
Operating Ambient Humidity		H <sub>OP</sub>	10	90	%RH	
Storage Humidity		H <sub>ST</sub>	10	90	%RH	

Notes : 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.

2. Gravity mura can be guaranteed under 40 °C condition.



## 2.4 SIGNAL TIMING SPECIFICATIONS

Table 6 shows the signal timing required at the input of the LVDS transmitter. All of the interface signal timing should be satisfied with the following specification for normal operation.

**TIMING TABLE for NTSC (DE Only Mode)**

ITEM		Symbol	Min	Typ	Max	Unit	Note
Horizontal	Display Period	t <sub>HV</sub>	-	960	-	tclk	
	Blank	t <sub>HB</sub>	100	140	240	tclk	
	Total	t <sub>HP</sub>	1060	1100	1200	tclk	2200/2
Vertical	Display Period	t <sub>VV</sub>	-	1080	-	Lines	
	Blank	t <sub>VB</sub>	11	45	69	Lines	
	Total	t <sub>VP</sub>	1091	1125	1149	Lines	

ITEM		Symbol	Min	Typ	Max	Unit	Note
Frequency	DCLK	f <sub>CLK</sub>	70	74.25	77	MHz	148.5/2
	Horizontal	f <sub>H</sub>	65	67.5	70	KHz	
	Vertical	f <sub>V</sub>	57	60	63	Hz	

Table shows the signal timing required at the input of the LVDS transmitter. All of the interface signal timing should be satisfied with the following specification for normal operation.

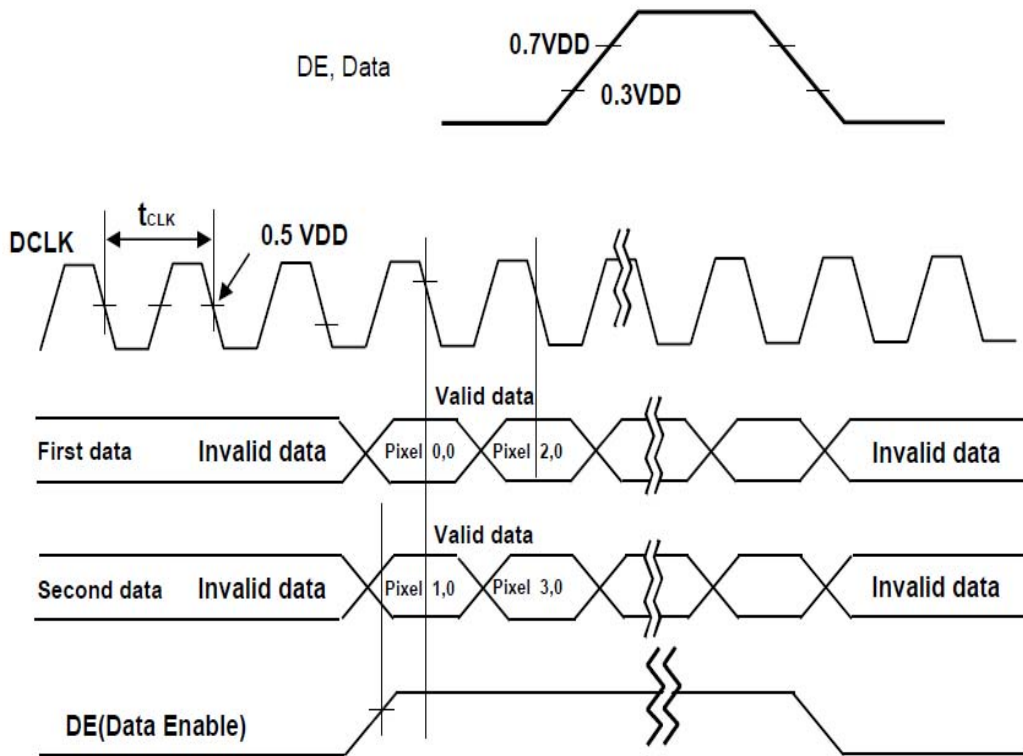
**TIMING TABLE for PAL (DE Only Mode)**

ITEM		Symbol	Min	Typ	Max	Unit	Note
Horizontal	Display Period	t <sub>HV</sub>	-	960	-	tclk	
	Blank	t <sub>HB</sub>	100	140	240	tclk	
	Total	t <sub>HP</sub>	1060	1100	1200	tclk	2200/2
Vertical	Display Period	t <sub>VV</sub>	-	1080	-	Lines	
	Blank	t <sub>VB</sub>	228	270	300	Lines	
	Total	t <sub>VP</sub>	1308	1350	1380	Lines	

ITEM		Symbol	Min	Typ	Max	Unit	Note
Frequency	DCLK	f <sub>CLK</sub>	70	74.25	77	MHz	148.5/2
	Horizontal	f <sub>H</sub>	65	67.5	70	KHz	
	Vertical	f <sub>V</sub>	47	50	53	Hz	

Note : The Input of HSYNC & VSYNC signal does not have an effect on normal operation(DE Only Mode).The performance of the electro-optical characteristics may be influenced by variance of the vertical refresh rate.

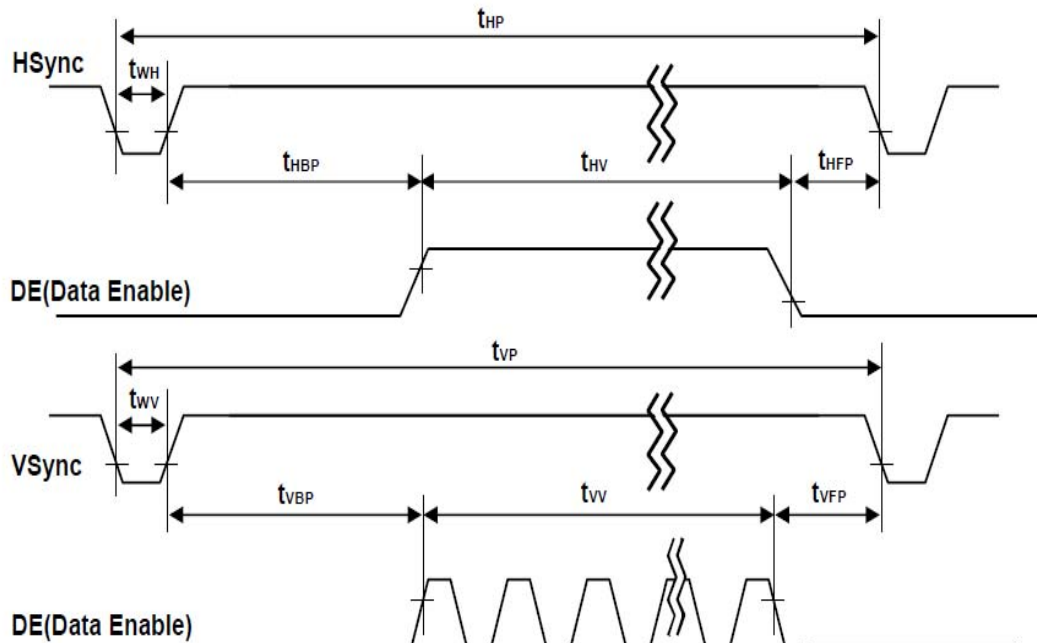
## 2.5 SIGNAL TIMING WAVEFORMS



\* Reference : Sync. Relation

$$* t_{HB} = t_{HFP} + t_{WH} + t_{HBP}$$

$$* t_{VB} = t_{VFP} + t_{VW} + t_{VBP}$$

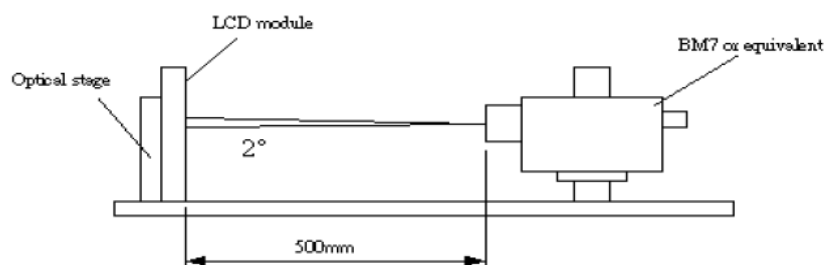




### 3.0 OPTICAL CHARACTERISTICS

#### 3.1 TEST CONDITIONS

Optical characteristics are determined after the unit has been 'ON' and stable for approximately 45 minutes in a dark environment at 25 . The values specified are at an approximate distance 50cm °C from the LCD surface at a viewing angle of  $\Phi$  and  $\theta$  equal to 0°.



#### 3.2 OPTICAL SPECIFICATIONS

Item	Symbol	Min.	Typ.	Max.	Unit	Note
Contrast Ratio	CRn	1000	1400	-	-	[1]
Luminance of White	LAVE	-	1000	-	cd/m <sup>2</sup>	[2]
Response Time	$\tau$ DRV	-	5	-	ms	[3]
Chromaticity	Red	Rx	Typ.-0.03	0.638	Typ.+0.03	-
		Ry		0.334		-
	Green	Gx		0.290		-
		Gy		0.606		-
	Blue	Bx		0.144		-
		By		0.064		-
	White	Wx		0.279		-
		Wy		0.292		-
Viewing Angle	x axis, right( $\varphi=0^\circ$ )	$\theta_r$	70	89	-	Degree
	x axis, left( $\varphi=180^\circ$ )	$\theta_l$	70	89	-	
	y axis, up( $\varphi=90^\circ$ )	$\theta_u$	70	89	-	
	y axis, down ( $\varphi=0^\circ$ )	$\theta_d$	70	89	-	

**Note:**

1. Contrast Ratio(CR) is defined mathematically as :Surface Luminance at all white pixels  
 $CR = \frac{\text{Surface Luminance at all white pixels}}{\text{Surface Luminance at all black pixels}}$ It is measured at center 1-point.
2. Surface luminance are determined after the unit has been 'ON'and 1Hourafterlighting the backlight in a dark environmentat  $25 \pm 2^\circ C$ . Surface luminance is the luminance value at center 1-point across the LCD surface 50cm from the surface with all pixels displaying white.For more information see the FIG. 2.
3. Response time is the time required for the displayto transit from G(N) to G(M) (Rise Time,  $\tau_{rR}$ ) and from G(M) to G(N) (Decay Time,  $\tau_{rD}$ ). For additional information see the FIG. 3. (N<M)※G to G Spec stands for average value of all measured points.Photo Detector : RD-80S / Field : 2°.
4. Viewing angle is the angle at which the contrast ratio is greater than 10. The angles are determined for the horizontal or x axis and the vertical or y axis with respect to the z axis which is normal to the LCD module surface. For more information, see the FIG. 4.

Measuring point for surface luminance & measuring point for luminance variation.

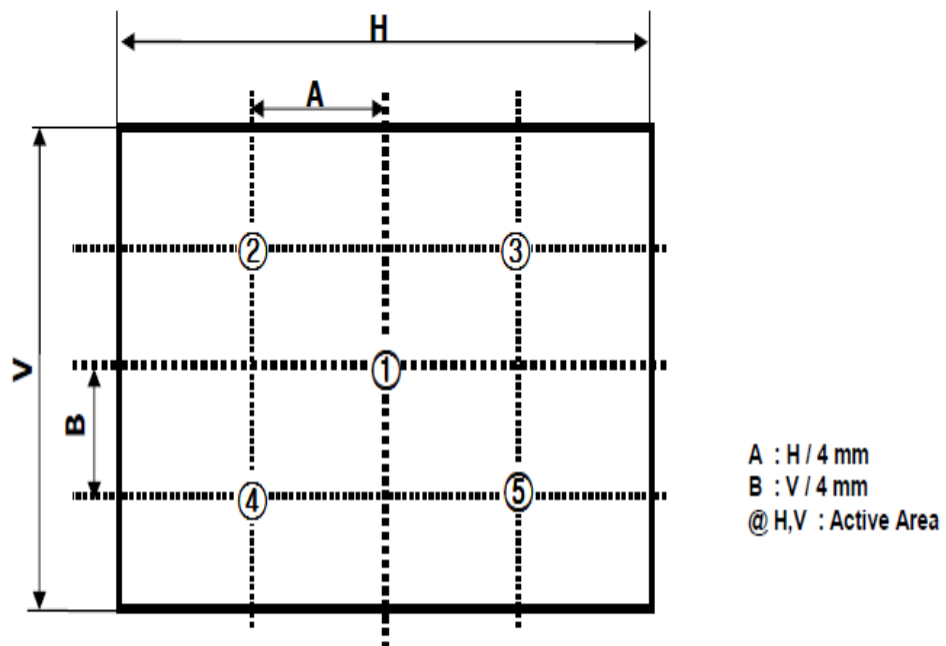


FIG. 2 5 Points for Luminance Measure

Response time is defined as the following figure and shall be measured by switching the input signal for "Gray(N)" and "Gray(M)".

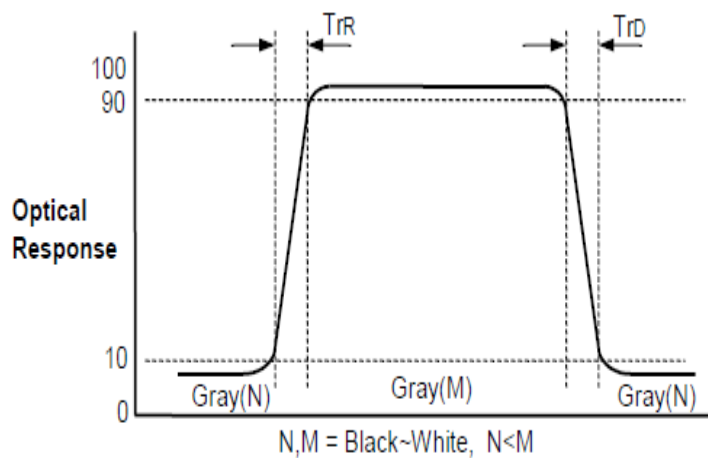


FIG. 3 Response Time

Dimension of viewing angle range

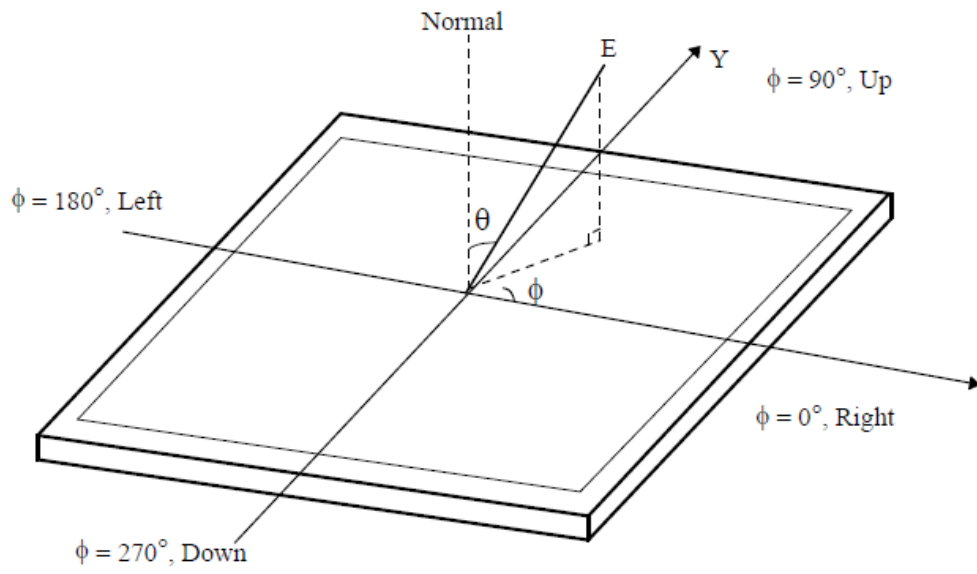
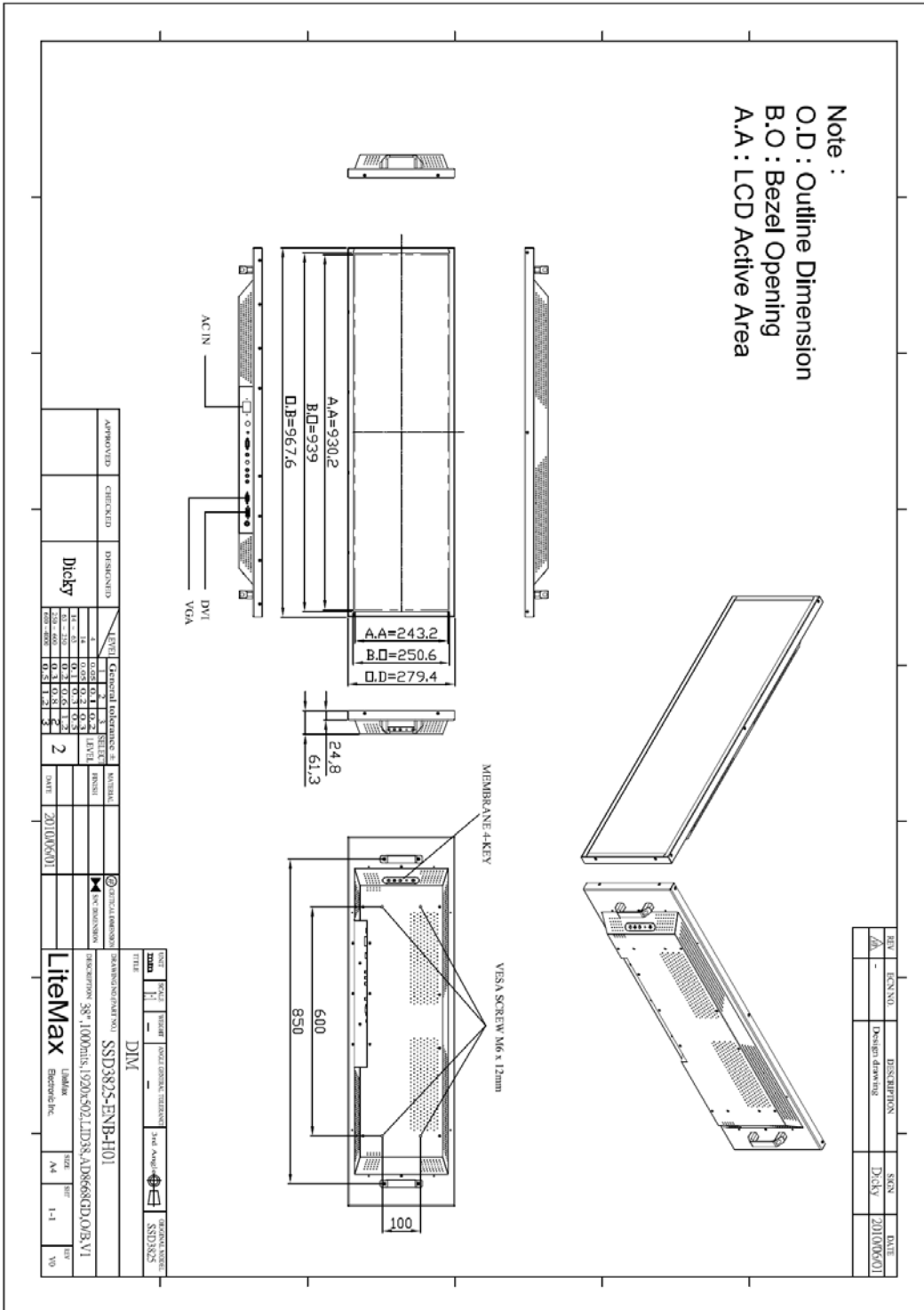


FIG. 4 Viewing Angle

# 4.0 MECHANICAL CHARACTERISTICS

## SSD3825 MECHANICAL SPECIFICATION

Item		Min.	Typ.	Max.	Unit
Module Size	Horizontal(H)	-	967.6	-	mm
	Vertical(V)	-	279.4	-	mm
	Depth(D)	-	61.3	-	mm
Weight (Module only)		-	9.06	-	kg
Weight (2 module per box)		-	22	-	kg



## 5.0 PRECAUTIONS

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### 5.1 HANDLING PRECAUTIONS

- (1) The module should be assembled into the system firmly by using every mounting hole. Be careful not to twist or bend the module.
- (2) While assembling or installing modules, it can only be in the clean area. The dust and oil may cause electrical short or damage the polarizer.
- (3) Use fingerstalls or soft gloves in order to keep display clean during the incoming inspection and assembly process.
- (4) Do not press or scratch the surface harder than a HB pencil lead on the panel because the polarizer is very soft and easily scratched.
- (5) If the surface of the polarizer is dirty, please clean it by some absorbent cotton or soft cloth. Do not use Ketone type materials (ex. Acetone), Ethyl alcohol, Toluene, Ethyl acid or Methyl chloride. It might permanently damage the polarizer due to chemical reaction.
- (6) Wipe off water droplets or oil immediately. Staining and discoloration may occur if they left on panel for a long time.
- (7) If the liquid crystal material leaks from the panel, it should be kept away from the eyes or mouth. In case of contacting with hands, legs or clothes, it must be washed away thoroughly with soap.
- (8) Protect the module from static electricity, it may cause damage to the C-MOS Gate Array IC.
- (9) Do not disassemble the module.
- (10) Do not pull or fold the lamp wire.
- (11) Pins of I/F connector should not be touched directly with bare hands.

### 5.2 STORAGE PRECAUTIONS

- (1) High temperature or humidity may reduce the performance of module. Please store LCD module within the specified storage conditions.
- (2) It is dangerous that moisture come into or contacted the LCD module, because the moisture may damage LCD module when it is operating.
- (3) It may reduce the display quality if the ambient temperature is lower than 10 °C. For example, the response time will become slowly, and the starting voltage of lamp will be higher than the room temperature.

### 5.3 OPERATION PRECAUTIONS

- (1) Do not pull the I/F connector in or out while the module is operating.
- (2) Always follow the correct power on/off sequence when LCD module is connecting and operating. This can prevent the CMOS LSI chips from damage during latch-up.

## 6.0 AD Board & OSD Functions

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### 6.1 AD BOARD GENERAL SPECIFICATIONS

- Max Resolution Up To Full HD 1920x1080
- Analog RGB Input
- ULTRA-RELIABLE DVI INPUT
- CBVS, S-VIDEO, Ycbcr INPUT (optional)
- 1.5Wx2 Audio Out
- Dual/single LVDS interface
- Support Panel DC5V or 3.3V, 12V Output
- Automatic External Fan Control
- OSD Control
- Inverter 0~5V Dimming Control
- \*External V.R. brightness control (optional)
- \*External light sensor brightness control (optional)
- \*External RS232 control (optional)
- Input Power 12Vdc

### 6.2 SUPPORTED TIMING (\*by your panel resolution)

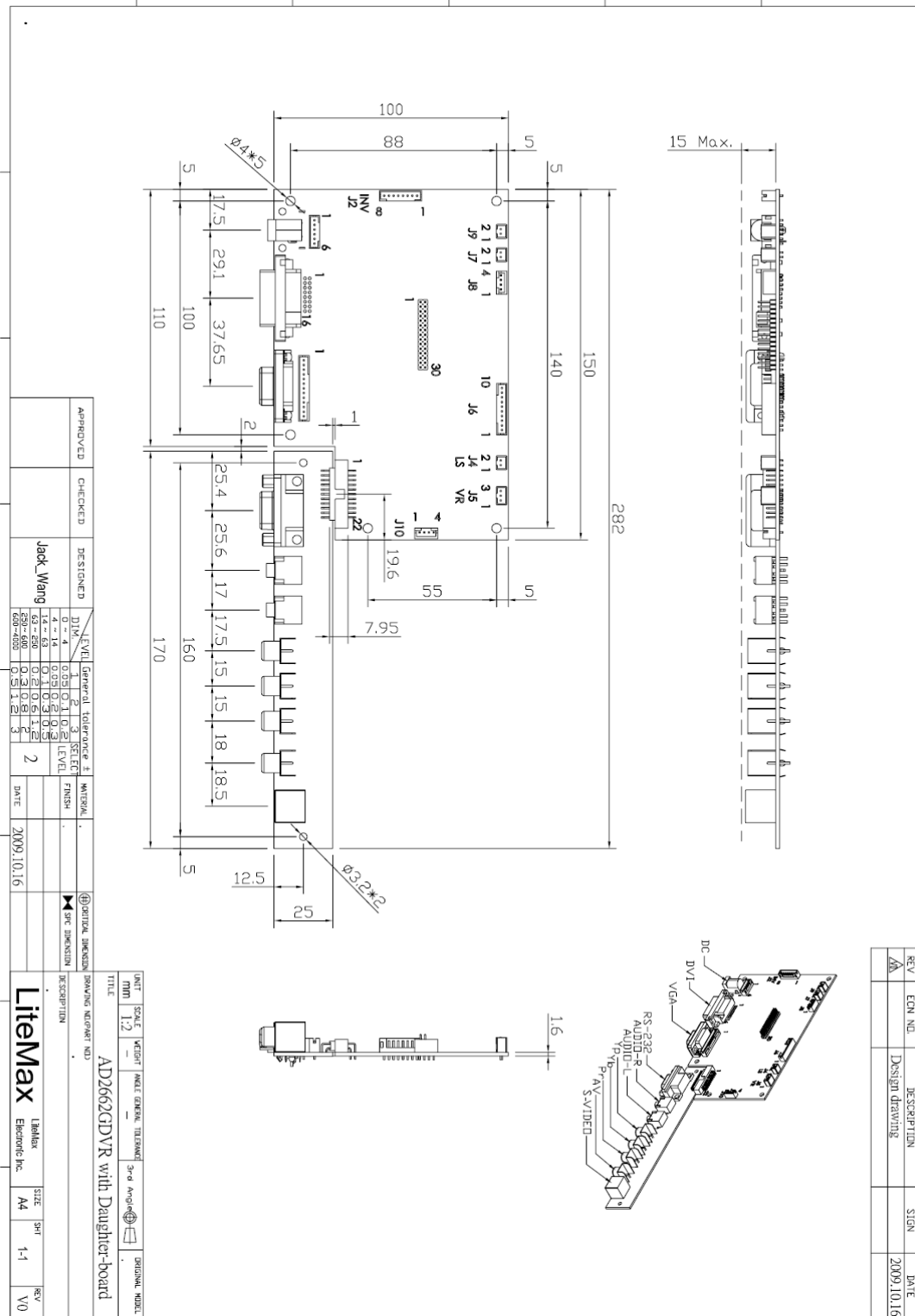
The following table displays optimum quality modes that the LCD monitor provides. If the other video modes are used, the monitor will stop working or display a poor quality picture.

TIMMING	
MODE	RESOLUTION
VGA	640x480@60Hz
	640x480@72Hz
	640x480@75Hz
SVGA	800x600@56Hz
	800x600@60Hz
	800x600@72Hz
	800x600@75Hz
XGA	1024x768@60Hz
	1024x768@70Hz
	1024x768@75Hz
SXGA	1280x1024@60Hz
	1280x1024@70Hz
	1280x1024@75Hz
WXGA	1366x768@60Hz

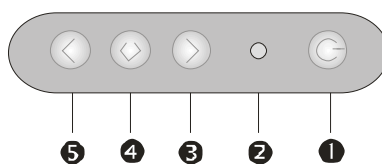
WSXGA+	1680x1050@60Hz
SXGA+	1400x1050@60Hz(Pixel f 101.000MHz)
	1400x1050@60Hz(Pixel f 121.750MHz)
	1400x1050@75Hz
UXGA	1600X1200@60Hz
	1600x1200@65Hz
	1600x1200@75Hz
FHD	1920X1080@60Hz
	1920X1080@65Hz
	1920X1080@75Hz

### 6.3 AD BOARD OUTLINE DIMENSION

unit: mm



## 6.4 MEMBRANE CONTROL BUTTOM



- ❶ **POWER SWITCH:** Pushing the power switch will turn the monitor on. Pushing it again to turn the monitor off.
- ❷ **Power LED:** Power ON-Green / Power off-No.
- ❸ **Up Key >:** Increase item number or value of the selected item.
- ❹ **Menu Key:** Enter to the OSD adjustment menu. It also used for go back to previous menu for sub-menu, and the change data don't save to memory.
- ❺ **Down Key <:** Decrease item number or item value when OSD is on.  
When OSD is off, it is hot key for input switch between VGA, AV, and S-video.

### Screen Adjustment Operation Procedure

1. **Entering the screen adjustment**  
The setting switches are normally at stand-by. Push the **Menu Key** once to display the main menu of the screen adjustment. The adjustable items will be displayed in the main menu.
2. **Entering the settings**  
Use the **Down Key <** and **Up Key >** buttons to select the desired setting icon and push the SELECT button to enter sub-menu.
3. **Change the settings**  
After the sub-menu appears, use the **Down Key <** and **Up Key >** buttons to change the setting values.
4. **Save**  
After finishing the adjustment, push the SELECT button to memorize the setting.
5. **Return & Exit the main menu**  
Exit the screen adjustment; push the "MENU" button. When no operation is done around 30 sec (default OSD timeout), it goes back to the stand-by mode and no more switching is accepted except MENU to restart the setting.

## 6.5 OSD FUNCTIONS

Here are some instructions for you to use the OSD (On Screen Display). By pressing the “menu”, you will see the below picture.

Timing shows resolution, H-frequency, and V-frequency of the panel. Version shows the firmware control version. This 2 information is not changeable by user.



There are 7 sub pages inside the OSD manual, Brightness, Signal select, Sound, Color, Image, Tools, and Exit.

When you press “menu” button, you enter the “Brightness” sub page. You will see 5 selections:



press “menu”



press “menu”



press “menu”



### OSD Brightness:



press “right” key



press “menu” once, you can go into adjust the brightness. Press “left” you can dim down the brightness to “0”, while press “right” you can increase the brightness to “100”.



**Ambient light sensor:** press this Icon, must to accompany with Litemax ambient light sensor to auto dimming.(OPTION)



**Potentiometer:** press this icon, adjust VR function.(OPTION)



**Ambient light sensor with OSD offset:** press this Icon



Press “menu” once, you can adjust min. luminance to fit your application (OPTION)

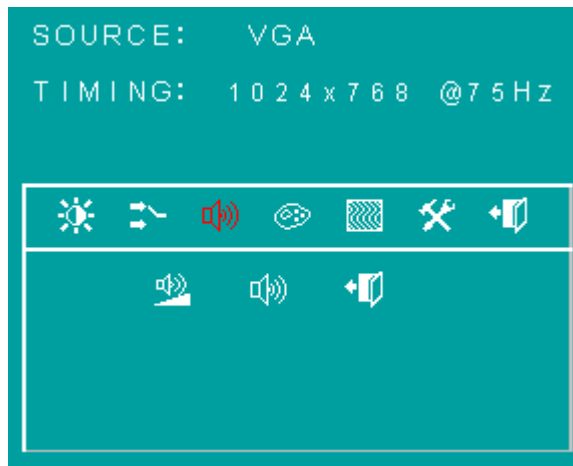


**Contrast:** Press “menu” and “right” you can adjust the contrast from “0” to “100” by pressing the “left” and “right”.



**Exit:** You can exit this sub menu back to normal screen.

**Sound :**



There are 3 options for “Sound” sub page.



**Audio Volume:** Audio volume adjustment.



**Mute:** You can mute the speaker by pressing this option.



**Exit:** back to the normal screen.



**Auto Color:** by press this “Auto Color” option, you can get the optimal color performance.



**sRGB:** Windows standard color setting.



**Color Tempture:** You can have 3 options in this selection.



**Color Tempture User**



**Color Tempture\_6500K**



**Color Tempture\_9300K**

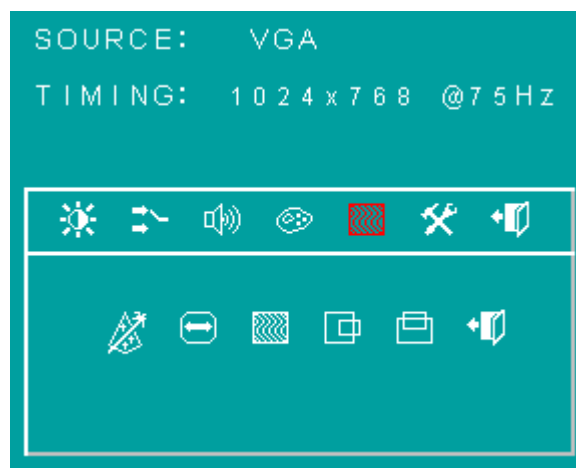
“user mode”, “6500K” (Warm color scheme), “9300K (Cold color scheme).  
Default is “user”, and inside all “R”, “G”, and “B” are set “100”



**Exit:** back to the normal screen.

**Image :**

Go into the “Image” page, you can see below picture.



**Auto just:** Pressing this option, the AD5621 will adjust the optimal frequency of horizontal and vertical. You will see “Auto tune....” On the screen for around 3 seconds.



**Clock:** If you are not satisfied about the Autotune result, you can adjust manually by “Clock”.



The screen will be “wider” if you adjust this function.

**Phase:** If you see “double image” on characters, you can adjust “Phase” to make it perfect image.



**HPos:** You can shift the screen horizontally by this function.



**Vpos:** You can shift the screen vertically by this function.



**Exit:** Back to normal screen.

### TOOLS :

On the “Tools” sub menu, you will see 5 icons.



**Osd Control:** Select this option, you will see 4 more options:



**Osd\_time:** You can selection the time of OSD from 2 sec. to 16 sec.

D



**Osd\_HPos:** You can move the OSD horizontally over the screen.



**Osd\_VPos:** You can move the OSD Vertically over the screen.



**Exit:** back to main menu.



**Factory\_Reset:** By pressing this, the screen will be back to the factory setting on very beginning and lost all the personal settings.



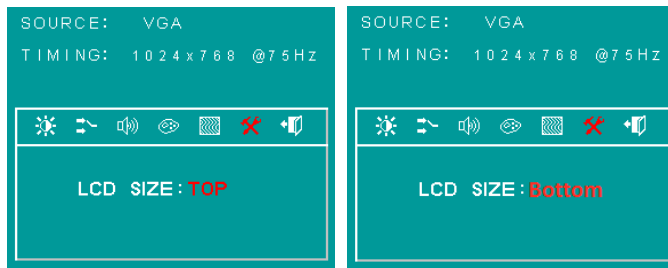
**Sharpness:** You can make the characters looks sharper.



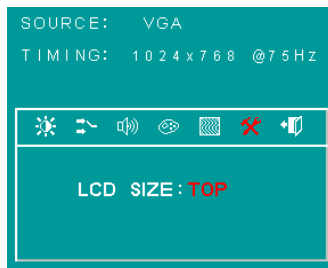
**LCD SIZE:** Select this option, you can control LCD size 3 type, 1. Bottom mode, 2. Top mode, 3. Compress mode.



**LCD SIZE:** Some models of LCD size are fixed on the “TOP” & “Bottom”.



**LCD SIZE:** Some models of LCD size is fixed on the “TOP”.



**Exit**

## BURNIN MODE:

Factory Burn-in mode: While your VGA cable is connected on the monitor, press “Menu” and

Left and Right <” simultaneously, you will see “BURN IN MODE” on the center of the screen for 3 sec. Then unplug the VGA cable, the screen will show Red, Green, Blue, White, and Black in sequence automatically.

You can plug in the VGA signal cable, and re-plug the power connector to exit the burn-in mode.

#### **KEY LOCK MODE:**

OSD Lock Function: It is possible to lock all the OSD buttons to prevent unauthorized changes to occur by pressing “Menu” and “right >” buttons simultaneously. You will see the “lock” icon below on the center of the screen for 3 seconds. If any button is pushed after the lock function is initiated, the below icon will appear on the screen.'



To release the OSD lock, press “Menu” and “Right >”. The below icon will appear on the center of the screen for 3 seconds. Now all OSD keys are active again.

