27" Wide FULL HD High Brightness Color TFT-LCD Chassis Monitor

MODEL: GCHW2700HB2



1. General Description

1-1, Overview

GCHW2700HB2 27" chassis monitor is designed for commercial and industrial applications at outdoors and indoors, such as kiosks, digital signage, military, security, industrial equipment, and instrumentation equipment. This product can provide high brightness / contrast to achieve better viewing effect and good reliability at wide environments conditions.

1-2. Features

- LED backlight
- 1500 nits sunlight readable display.
- WUXGA (1920 x 1080 pixels) Full HD resolution
- VA mode with wide viewing angle
- RoHS Compliance
- 5 keys OSD controls
- VGA / DVI / HDMI Video Input and auto detection video system.

1-3. Application

Industrial Application; especial for outdoor kiosk and digital signage display.

2. Specifications

2.1 LCD specification

The following items are characteristic summary on the table at $25^{\circ}C$ condition

	ltem	Specification	Unit	Note
LCD panel	Active screen size	597.6(H) x 336.15(V)	mm	
		(27 inches diagonal)		
	Resolution	1920 (H) x 1080(V)	pixels	
	Pixels pitch	0.31125(H) x 0.31125 (V)	mm	
	Pixel arrangement	RGB vertical stripe		
	Display mode	VA mode, normally black		
	Display colors	16.7 M (8 bits)	colors	
	Brightness	1500	nits	3
	Contrast Ratio	3000 : 1		
	Response time	12 ms (on/off)		
	Aspect Ration	16 : 9		
Graphic	Input Connector	D-Sub 15 pins, DVI, HDMI		
Power	Power Innut	100~240	Vac	
Powe				
consi				
Physica				
	Weight	l	KG	_
Environment	Operating Temperature	-10 ~ 50	°C	1
	Storage Temperature	-20 ~ 60	°C	2
Reliability	Backlight MTBF	50,000	hours	
	Warranty	18	month	
	ON / OFF cycle	36,000	cycle	
DCC	Plug & Play	DDC 2B Compliance		
Function	OSD key	5 keys(Power ,Enter ,▲ ,▼ ,Menu)		
	Wall mount	VESA standard 100 x 100 (75x75)	mm	

Note 1: -40°C operation is still OK at system condition.

Note 2: The unit should not be exposed to corrosive chemicals.

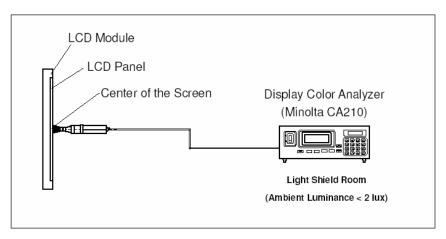
Note 3: Brightness without touch panel

3. Optical characteristics

ltem		Sym	Condition	Min.	Тур.	Max.	Unit	Note
Center Luminance of White		Lc		1200	1500		Cd/m ²	
Center Color Chromaticity of White	D. I	Rx	Normal Direction	Тур - 0.04	0.65	 Typ + 0.04		 1
	Red	Ry			0.33			
	Green	Gx			0.32			
		Gy			0.62			
	Blue	Вх			0.15			
		Ву			0.06			
	NA/1 , *(-	Wx			0.31			
	White	Wy			0.35]
Uniformity	5 points	δW		65	75		%	
Contrast Ratio		CR		1500	3000			
View Angle	Horizontal	θx+	CR ≧ 10	75	89		Deg.	- 2
		θx-		75	89			
	Vertical	θу+		75	89			
		θу-		75	89			
Response time		T _R	Normal Direction		7		ms	3
		T _F			5			
Crosstalk (in 60Hz)						1.5	%	4

The relative measurement methods of optical characteristics are shown below.

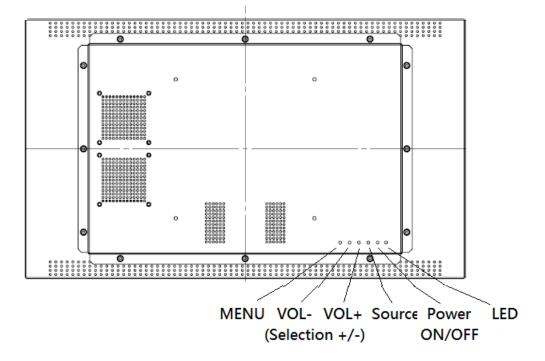
Measurement Setup:



The LCD module should be stabilized at given temperature for 10 min. to avoid abrupt temperature change during measuring.

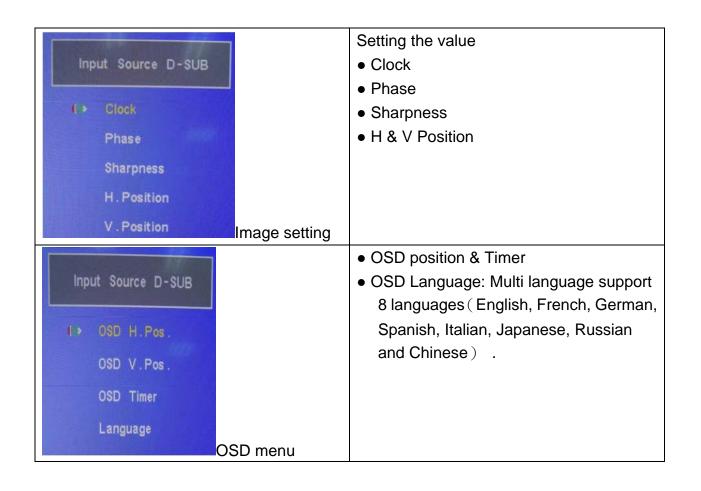
4. OSD Functions:

OSD key instruction



Main menu mode

OSD MENU	Description		
	Select the main function below :		
Input Source D-SUB	• Color		
t > Color	Image setting		
Image Setting	OSD Menu		
OSD Menu	Signal source		
Signal Source	Audio		
Audio	• Reset		
Reset General			
	Setting the value below:		
Input Source D-SUB	Contrast		
t ≽ Color	Brightness		
Image Setting	Color adjust		
OSD Menu	Color temperature		
Signal Source	Auto setting		
Audio			
Reset			

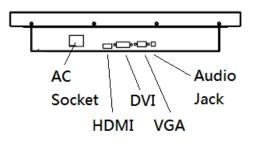


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5. Shipping label and Parking list (TBD)

6. Installing the monitor

Customer ports and instruction as below:



If the computer is turned on, you must turn it off before continuing. Do not plug-in or turn-on the power to the monitor until instructed to do so.

- 1. Attach the monitor base (By pass)
- 2. Connect the PC video cable.
- 3. Connect the power cable to the monitor.
- 4. Route the cables via the cable clip.
- 5. Connect-to and turn-on the power.

Special note:

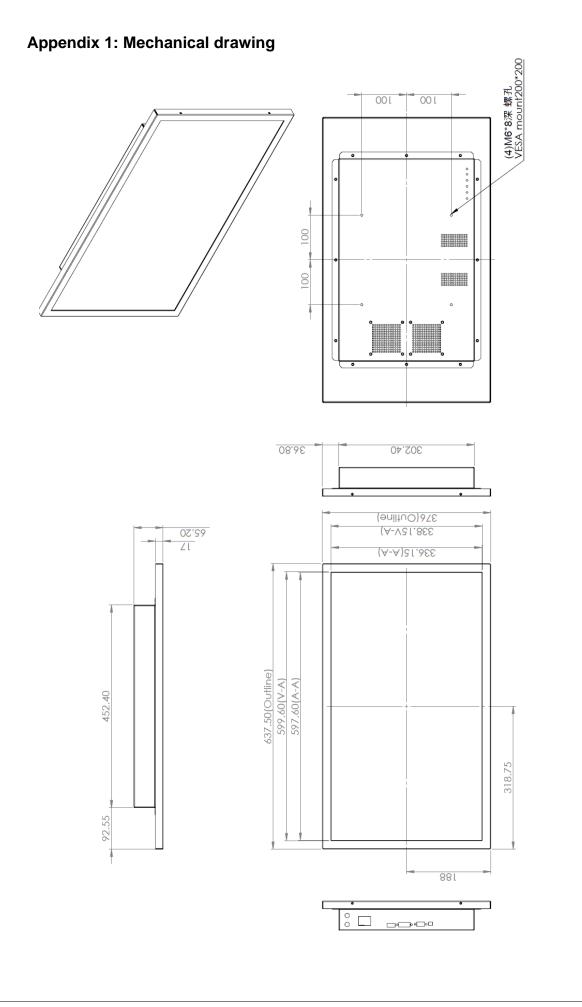
- 1. If the video card cannot display or normal display with your setting resolution, please adjust the resolution to 16:9 format (1366X768 or 1920X1080 and so on).
- 2. When the monitor is operating continuous, the chassis will be "warm".

7. Trouble shooting

If experiencing trouble with the monitor, or it fails to operate correctly, please refer to the following instructions before calling for repairs.

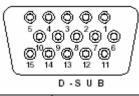
Trouble	Suggestion		
1. The picture does not	Check to see that all the I/O and power cables is firmly		
appear	seated in the socket.		
	 Check the Power LED is Lighting When the monitor was 		
	turned ON.		
	 Check if the brightness control is at the appropriate 		
	position, not at the minimum		
2. The screen is not	 Check if the I/O signal cable is firmly seated in the socket. 		
synchronized	 Check if the output level matches the input level. 		
	 Make sure the signal timings of the computer system are 		
	within the specification of the monitor		
3. The position of the screen	 Adjust the H-position, and V-position, or perform the auto 		
is not in the center	adjustment or Memory recall		
4. The screen is too bright (too	 Check if the brightness or contrast control is at the 		
dark).	appropriate position.		
5. The Screen is shaking or	 Press the Auto adjustment control to adjust. Moving all 		
waving	objects which emit a magnetic field such as motor or		
	transformer, away from the monitor. Check if the specific		
	voltage is applied.		
	 Check if the signal timing of the computer system is within 		
	the specification of monitor.		

If you are unable to correct the fault by using this chart, stop using your monitor and contact us



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Appendix 2: D-sub 15pin Connector



Pin	Pin Function	Pin No.	Pin Function
No.			
1	Red video input	9	NC
2	Green video input	10	Ground
3	Blue video input	11	No connection
4	NC	12	(SDA)
5	Ground	13	Horizontal sync (Composite sync)
6	Red video ground	14	Vertical sync
7	Green video ground	15	(SCL)
8	Blue video ground		