






FOR APPROVAL
MODEL : HC5701A1

Customer _____

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Approval Stamp	Approved	Checked	
			
		Model	HC5701A1
		Version	2
		Total Pages	7
		Date	DEC.09,2010

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1. Application

This specification shall be applied to model:HC5701A1, 5.7" color TFT-LCD(Thin Film Transistor Liquid Crystal Display) module composed of LCD panel, driver IC, and LED backlight.

2. Specifications

2-1	Display	5.7" color TFT LCD
2-2	Resolution	640(H) x 3(RGB) x 480(V)
2-3	Pixel Pitch(mm)	0.1815 (H) x 0.1815 (V)
2-4	Pixel Arrangement	R, G, B Arrangement Stripe
2-5	Back light	LED
2-6	Input Signal	NTSC & PAL (auto-switch) 1Vp-p / 75 ohm
2-7	Color Depth	262K Colors NTSC PAL f_c : 15.75 KHz 15.625 KHz f_H : 60 Hz 50 Hz f_V : 3.58 MHZ 4.43 MHZ
2-8	Power Source	DC 12V ~ 24V (ripple 0.5 Vp-p max.)
2-9	Range of Operating Voltage	DC 10V ~ 24V
2-10	Power Consumption	3.6W max.
2-11	Operating Temperature	-0°C~60°C
2-12	Storage Temperature	-10°C~70°C
2-13	Operating Humidity	max.85% RH
2-14	Storage Humidity	max.85% RH
2-15	Overall Dimension	127 (W) x 98.43 (H) x 16 (D)
2-16	Weight	156 ± 5 g

3. Optical Specifications

3-1	Lamp Life-time	30,000 hr min. (at Tamb=25°C)
3-2	Typ. Viewing Angle	Right 70 deg Left 70 deg Top 60 deg Bottom 40 deg
3-3	Brightness	Typ. 400 cd/m ²
3-4	Contrast Ratio	Typ. 300
3-5	Response time	30ms(Typ.)

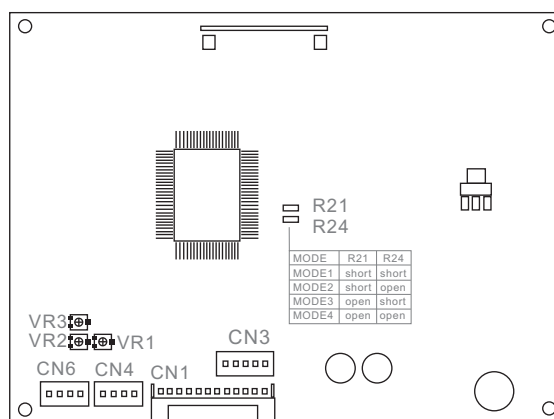
4. Connector control

4-1 Multi-function PCB is for function setting adjustment via jump R21, R24.

Jumm	Function Setting
Mode1	No OSD display, and VR is no working. Needs to use key board to make adjustment. Can switch CVBS and S-Video
Mode2	OSD display, but VR is no working. Needs to use key board to make adjustment. To force power on by external control.
Mode3	OSD display, but VR is no working. Needs to use key board to make adjustment.
Mode4	Can use VR to adjust bright、 color、 contrast. And can use VR Board. Also can switch CVBS and S-Video.

function	basis	Additional Functions
CVBS	Input	
S-VIDEO	Reservation	To use peripheral product.
AUDIO	-----	
SLEEPING	-----	
Bright	VR1	Be restricted by jump
Color	VR2	
Contrast	VR3	Don't be restricted by jump
Remote	Reservation	To use peripheral product.
IR_data out	Reservation	

4-2 Pin Assignment



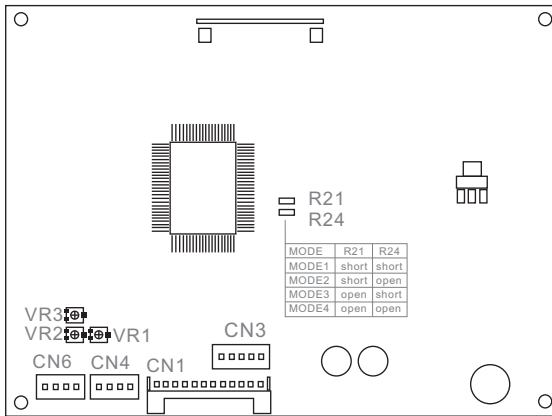
■ CN1

Pin	Parameter	Note
1	DC input	
2	GND	
3	5V Output	
4	Gpio/Color Up	*1
5	Gpio/Color Down	
6	Gpio/Bright DOWN	
7	Gpio/Bright UP	
8	Gpio/Power On/Off	
9	IR Control	
10	Gpio/exterior ON	*1
11	Cvbs Input	
12	GND	

* 1) If want to adjust color, bright or control power on/off, please intermittently touch pin4,5,6,7,8 with Ground separately.

Or by the other way, connect pin4,5,6,7,8 to tactile pushswitch which on your device separately, as well as connect to Ground.

Then, the adjust bar will appear.



■ Line-500.



The standard attached wire for 5.7" module is Line-500.

■ (Option) Application for Mode2.

■ CN3

Pin	Parameter	Note
1	DC input	
2	GND	
3	Ps	*1
4	Mirror	*2
5	5V Output	

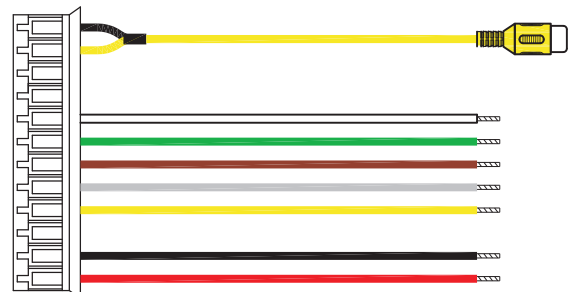
■ CN4

Pin	Parameter	Note
1	Color	
2	Bright	
3	Cvbs Input	
4	GND	

■ CN6

Pin	Parameter	Note
1	GND	
2	Y Sync	
3	GND	
4	C Sync	

■ Line-501



If want to use firmwave GPIO to make control, there is another wire Line-501 for using.

* 1) Enable Input. When higher than 1.3V, this pin turns the IC on. When lower than 0.7V, this pin turns the IC off. Output voltage is discharged when the IC is off.

* 2) Touch Ground action

5. Inspection Standard

5-1 Classification of Defects

5-1-1 Dot defect

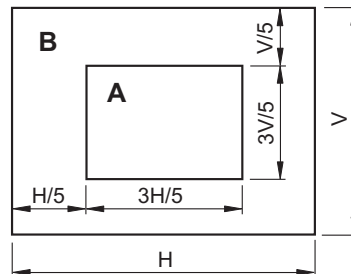
a). Inspection condition

- Inspection distance : 35 ± 5 cm
- Inspection illumination : 100 ~ 150 Lux
- Panel temperature : $30 \pm 5^\circ\text{C}$
- Inspection pattern : full white, full black, red, green and blue screens

b). Acceptable criteria

Item	Area		Total
	A	B	
Blue Black	2	3	4
Red Green White	1	3	3
Total	2	5	7

c). The definitions of A and B zone



5-1-2 Scratch on the polarizer

Number = 3 max.

Width ≤ 0.1 mm , Length ≤ 6 mm

5-1-3 Dent on the polarizer

Number = 3 max. , Average Diameter ≤ 0.3 mm

5-1-4 Foreign material on the polarizer

Number = 2 max. , Average Diameter ≤ 0.5 mm

5-1-5 Afterimage

After displaying a pattern for 5 seconds then switch to a different pattern, the previous pattern should disappear within 10 seconds.

6.Mechanical Drawing

