

FOR APPROVAL

Model : HC8035A

Customer :

RECEIPT STATUS

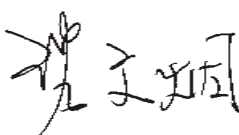
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Approved by	Checked by	Spec. No.	SN/HC8035A/CDR
		Version	1
		Total Pages	9
		Date	Dec.18, 2001



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Mechanical Drawing

1. Scope of Work

This specification shall be applied to model : HC8035A, 7.9" color TFT LCD module

2. Specifications

2-1	Display	:	7.9" color TFT LCD	
2-2	Resolution	:	1440(H) x 234(V)	
2-3	Action Area	:	161.28(H) x 117.936(V)	
2-4	Dot Pitch	:	0.112(H) x 0.504(V)	
2-5	Pixel Configuration	:	R.G.B Stripe	
2-6	Back Light	:	CCFT	
2-7	Input Signal	:	NTSC & PAL (auto-switch)	
			composite video signal 1 Vp-p / 75 ohm	
			sync. Negative	
			NTSC	PAL
		f_H	: 15.75 KHz	15.625 KHz
		f_V	: 60 Hz	50 Hz
		f_C	: 3.58 MHz	4.43 MHz
2-8	Power Source	:	DC 12 V ~ 24 V	
			(ripple 0.5 Vp-p max.)	
2-9	Range of Operating Voltage	:	DC 10 V ~ 30 V	
2-10	Power Consumption	:	10W max.	
2-11	Operating Temperature	:	- 20 °C ~ 60 °C	
2-12	Storage Temperature	:	- 30 °C ~ 80 °C	
2-13	Operating Humidity	:	Max. 85% RH	
2-14	Storage Humidity	:	Max. 85% RH	
2-15	Overall Dimension	:	191.5(W) x 144.7(H) x 22.0(D)	
2-16	Weight	:	440 ± 5 g	



3. Functions

3-1 PICTURE ADJUSTMENT

■ BRIGHTNESS

Press UP or DOWN on the PCB directly to adjust brightness.



■ COLOR / CONTRAST / TINT

To Press MENU on the PCB, the screen will appear a menu.

Press UP/DOWN on the PCB to select COLOR / CONTRAST / TINT and then press MENU to select it. At that time, the screen will appear a control bar. Press UP/DOWN on the PCB again to adjust the picture quality.

BRIGHT
COLOR
CONTRAST
TINT [NTSC ONLY]
SYSTEM SETUP
EXIT



BRIGHT
COLOR
CONTRAST
TINT [NTSC ONLY]
SYSTEM SETUP
EXIT



BRIGHT
COLOR
CONTRAST
TINT [NTSC ONLY]
SYSTEM SETUP
EXIT



3-2 SYSTEM SETUP

Enter the MENU and select SYSTEM SETUP. And then press MENU on the PCB to enter SYSTEM SETUP. The screen will appear a menu of system setup as the following.



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**DIMMER HIGH
POWER SAVING ON
FSC SET 3.58MHz
HOR NOR.
VER NOR.
EXIT**

DIMMER HIGH

Press MENU to enter dimmer setup.

Press UP/DOWN to select DIMMER HIGH / DIMMER MID / DIMMER LOW and then press MENU to select it.

POWER SAVING ON

Press MENU to enter power saving setup.

Press UP/DOWN to select POWER SAVING ON or POWER SAVING OFF and then press MENU to confirm it.

When the system is set up at the POWER SAVING ON mode, power will be off automatically after 6 seconds when there is no video signal. And power will on automatically when there is an input of video signal.

FSC SET 3.58MHz

Press MENU to enter frequency setup of color subcarrier.

Press UP/DOWN to select FSC SET 3.58MHz / FSC SET 4.43MHz and then press MENU to confirm it. It will force fsc at 3.58MHz or 4.43MHz.

HOR NOR.

Press MENU to enter a setup of horizontal reverse image.

Press UP/DOWN to reverse image.

VER NOR.

Press MENU to enter a setup of vertical reverse image.

Press UP/DOWN to reverse image.



4. Optical Specifications

- 4-1 Lamp Life-time : 10,000 hr min. (at Tamb = 25 °C)
- 4-2 Typ. Viewing Angle : Right 55 deg
Left 55 deg
Top 15 deg
Bottom 35 deg
- 4-3 Brightness : Typ. 300 cd/m²
- 4-4 Contrast Ratio : Typ. 150

5. Connector

- 5-1 Harness connector : 8 pin , pitch 2mm , length 300mm
- 5-2 Pin Assignment :

CN01

Parameter	Color Of Wire	Voltage		Current	
		Min.	Max.	Min.	Max.
DC input (Vcc)	Red	10V	30V	---	1A
Ground	Black	---	---	---	---
EXT.Power (On/Off)	Orange	0V	5V~Vcc	0.5mA	---
(empty)	----	---	---	---	---
(empty)	----	---	---	---	---
(empty)	----	---	---	---	---
Ground	Black	---	---	---	---
Signal	White	0.8Vp-p	1.2Vp-p	---	---

6. Inspection Standard

6-1 Inspection environment conditions

6-1-1 Room temperature : 20 ~ 25 °C

6-1-2 Humidity : 65 ± 5% RH

6-1-3 The viewing line should be perpendicular to the surface of screen.



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6-2 Classification of Defects

6-2-1 Dot defect

a). Inspection condition

Inspection distance : 35 ± 5 cm

Inspection illumination : 100 ~ 150 Lux

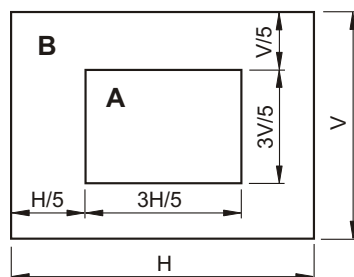
Panel temperature : 30 ± 5 °C

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



6-2-2 Scratch on the polarizer

Number = 3 max.

Width ≤ 0.1 mm , Length ≤ 6 mm

6-2-3 Dent on the polarizer

Number = 3 max. , Average Diameter ≤ 0.3 mm



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6-2-4 Foreign material on the polarizer

Number = 2 max. , Average Diameter $\leq$ 0.5 mm

6-2-5 Afterimage

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



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