

VIDEOLOGY

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Instruction Manual 45S056 5.6" TFT LCD Video Module



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For technical assistance with this product, please contact the supplier from whom the product was purchased.

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1. Document History

Revision	Issue Date	Reason	CN#
Rev A	11-23-09	Initial release	09-016?

2. Scope of Work

This specification shall be applied to model: 45S056, 5.6" color TFT LCD module.

3. Specifications

Electrical	45S056
Operating System	NTSC/PAL auto switchable
Display	5.6" color TFT LCD
Resolution (W x H)	960 x 234
LCD Type	TFT active matrix
Action Area	154.08(W) x 86.58(H)
Dot Pitch	0.118(W) x 0.362(H)
Color Configurations	R.G.B stripe
Brightness	200 cd/m ²
Contrast Ratio	300:1
Response Time	Tr: 15ms Tf: 20ms
Backlight Compensation	LED
Input Signal	1Vp-p composite video at 75 Ohms
Video Angle	Left 65 ⁰ , right 65 ⁰ , up 45 ⁰ , down 65 ⁰
Lamp Life-time	20,000 hrs (min)
Operating Voltage	12VDC ±10%
Power Consumption	3.6 Watts

Environmental	
Operation Temperature	0 ⁰ C ~ 50 ⁰ C (32 ⁰ F ~ 122 ⁰ F)
Storage Temperature	-30 ⁰ C ~ 85 ⁰ C (-22 ⁰ F ~ 185 ⁰ F)
Operating Humidity	Max. 85% RH
Storage Humidity	Max. 85% RH

Mechanical	
Dimensions W x H x D	153mm X 124.45mm X 6.8mm (0.15" x 0.12" x 0.0068")
Weight	245g (0.54 lb)
External Controls (Optional)	Contrast, Brightness, Hue (NTSC only), Saturation, Sharpness, Mirror setting (Mirror/Up/Down), Volume
Safety Standards	FCC, CE, UL, RoHS

Accessories	
Included	Cables 2 AV-IN, 1 12VDC-IN Keyboard control with LED light

4. Connectors

4.1. Harness connector: 15 pin, pitch 1.2mm

Pin assignment of User Control Interface on driving board: (JP1)

Pin No.	Symbol	I/O	Pin Description	Remark
1	GND	-	Ground for logic circuit	
2	V _{CC}	I	Supply voltage of logic control circuit for scan driver	
3	V _{GL}	I	Negative power for scan driver	
4	V _{GH}	I	Positive power for scan driver	
5	STVR	I/O	Vertical start pulse	Note1
6	STVL	I/O	Vertical start pulse	Note1
7	CKV	I	Shift clock input for scan driver	
8	U/D	I	UP/DOWN scan control input	Note1, 2
9	OEV	I	Output enable input for scan driver	
10	VCOM	I	Common electronic driving signal	
11	VCOM	I	Common electronic driving signal	
12	L/R	I	LEFT/RIGHT scan control input	Note1,2
13	MOD	I	Sequential sampling and simultaneous sampling setting	Note3
14	OEH	I	Output enable input for data driver	
15	STHL	I/O	Start pulse for horizontal driver	Note1
16	STHR	I/O	Start pulse for horizontal driver	Note1
17	CPH3	I	Sampling and shifting clock pulse for data driver	
18	CPH2	I	Sampling and shifting clock pulse for data driver	
19	CPH1	I	Sampling and shifting clock pulse for data driver	
20	V _{CC}	I	Supply voltage of logic control circuit for data driver	
21	GND	-	Ground for logic circuit	
22	VR	I	Alternated video signal input (RED)	
23	VG	I	Alternated video signal input (GREEN)	
24	VB	I	Alternated video signal input (BLUE)	
25	AV _{PP}	I	Supply voltage for analog circuit	
26	AV _{SS}	-	Ground for analog circuit	

Note 1: Selection of scanning mode (please refer to the following table)

Setting of scan control input		IN/OUT state for start pulse				Scanning Direction
U/D	L/R	STVR	STVL	STHR	STHL	
GND	V _{CC}	OUT	IN	OUT	IN	From up to down, and from left to right
V _{CC}	GND	IN	OUT	IN	OUT	From down to up, and from right to left
GND	GND	OUT	IN	IN	OUT	From up to down, and from right to left
V _{CC}	V _{CC}	IN	OUT	OUT	IN	From down to up, and from left to right

In: Input, OUT: Output

5. Inspection Standard

5.1. Inspection environment conditions

Room Temperature: 20° C ~ 25° C

Humidity: 65±5% RH

The viewing line should be perpendicular to the surface screen.

5.2. Classification of Defects

5.2.1. Dot Defect

a) Inspection condition

Inspection distance: 35±5cm

Inspection illumination: 100~150Lux

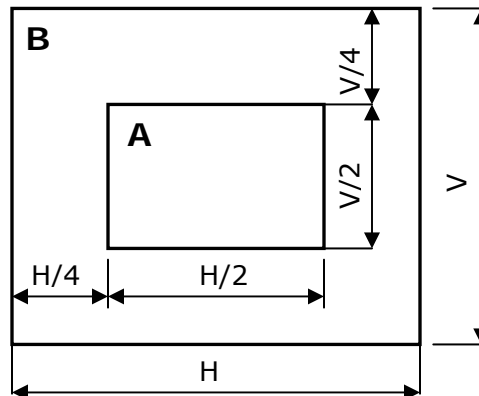
Panel temperature: 30±5° C

Inspection pattern: Full white, full black, red, green and blue screens.

b) Acceptable

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

c) The definitions of A and B zone



5.2.2. Scratch on the Polarizer

Number = 3 max

Width ≥ 0.1 mm, Length ≥ 6 mm

5.2.3. Dent on the Polarizer

Number = 3 max, Average Diameter ≥ 0.3 mm

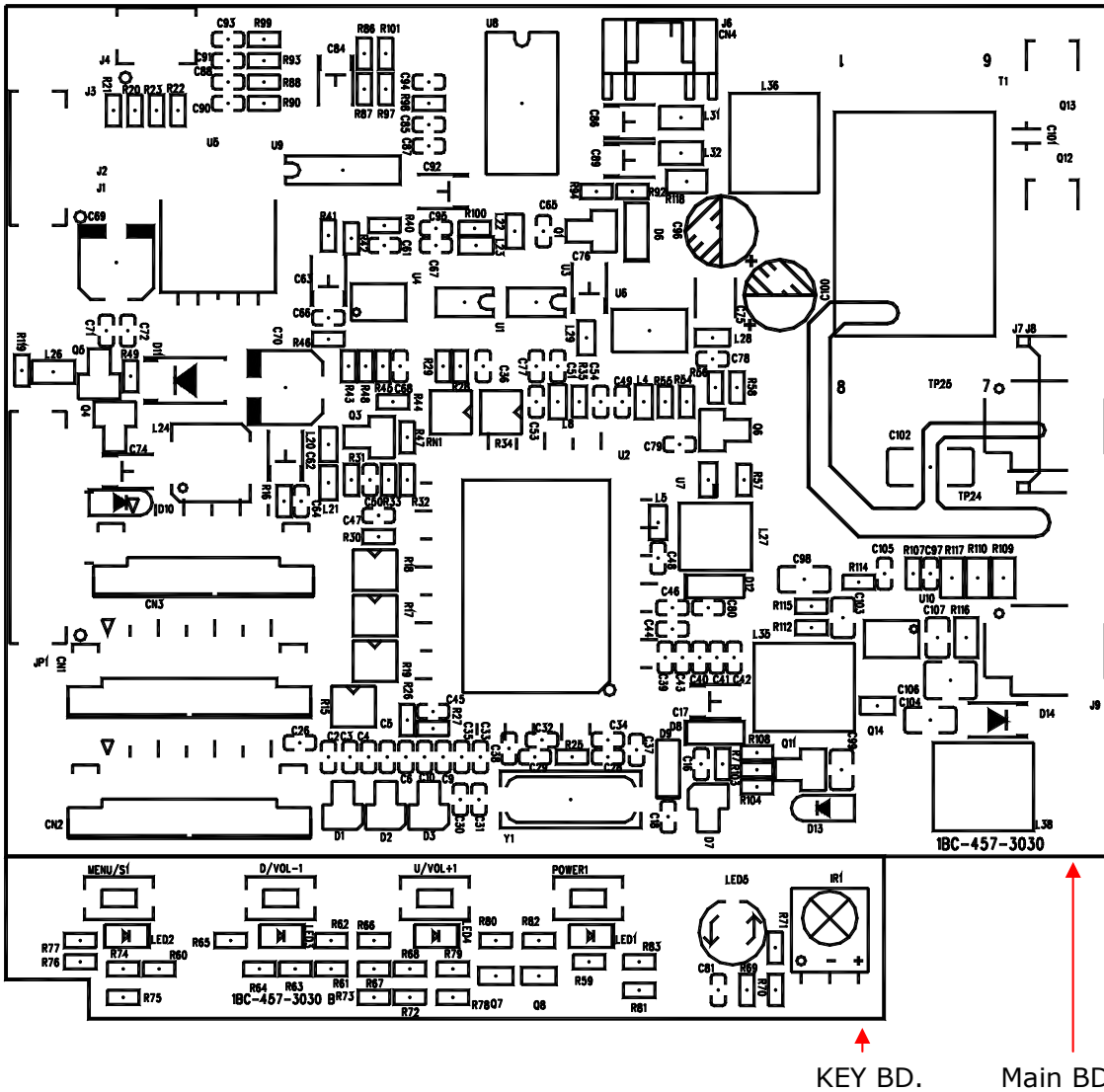
5.2.4. Foreign Material on the Polarizer

Number = 2 max, Average Diameter ≥ 0.5 mm

5.2.5. Afterimage

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

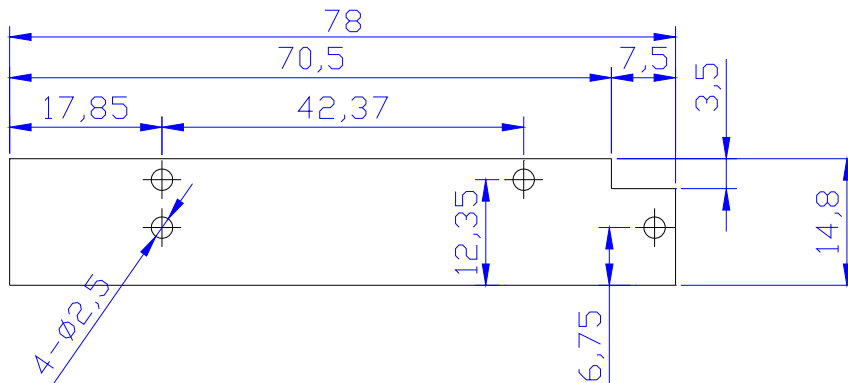
6. Out Look of Driver Board



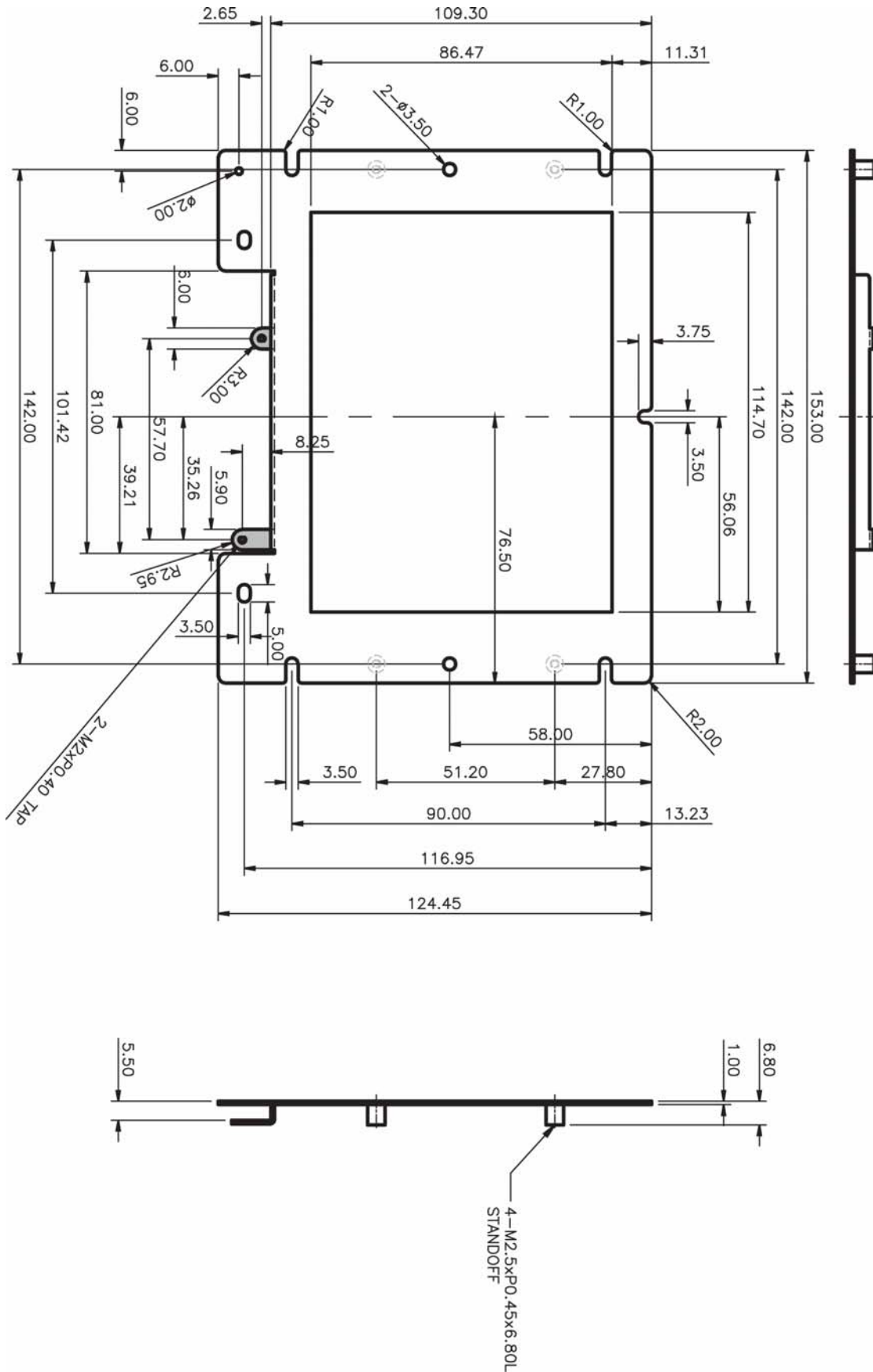
7. Driver Board's Dimensions

7.1. Module's Mechanical Dimension

Key BD:



8. Dimensions



Key operation manual

1. Press "POWER" to Switch on the LCD monitor.
2. Press" MENU" Key get into OSD Operator: Contrast, Brightness, Hue (NTSC-only), Saturation, Sharpness, Mirror setting (Mirror/U/D).
3. Press "UP"&"DOWN to increase or decrease the setting.
4. Press" POWER" Key can control the ON/OFF with power switch.
5. Press Down key=AV2 select, Press Up key=AV1 select
6. You can change the keyboard, if you need used or not use it.

9. Contact Information

For technical assistance with this product, please contact the supplier from whom the product was purchased.

For OEM inquiries, contact Videology Imaging Solutions:

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