Version : 0.1

TECHNICAL SPECIFICATION

MODEL NO. : PA035XSE

Customer's Approved

Customer

Date

Ву

PVI's Confirmation

Approved By

Prepared By

PRIME VIEW INTERNATIONAL CO.,LTD. 3,LI SHIN RD. 1,SCIENCE-BASED INDUSTRIAL PARK,HSINCHU,TAIWAN,R.O.C. Http://www.pvi.com.tw

Date : Feb,3 2004

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TECHNICAL SPECIFICATION

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1. Application

This technical specification applies to 3.5" color TFT-LCD panel. The 3.5" color TFT LCD panel is designed for camcorder, digital camera application and other electronic products which require high quality flat panel displays.

- 2. Features
 - . Compatible with NTSC or PAL system
 - . High Resolution : 224,640 Dots
 - . Optimum Viewing Direction : 6 o'clock
 - . Up/Down and Left/Right Image Reversion
- 3. Mechanical Specifications

Parameter	Specifications	Unit
Screen Size	3.5 (diagonal)	inch
Surface Treatment	Anti-Glare	
Display Format	960×234	dot
Active Area	71.6×52.65	mm
Dot Pitch	0.0745 (H)×0.225 (V)	mm
Pixel Configuration	Delta	
Outline Dimension	83.7(W)×68.6(H)×6.6 (D)	mm
Weight	58±5	g



4. Mechanical Drawing of panel:



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PA035XSE

5.Input / Output Terminals

Pin No	Symbol	I/O	Description	Remark
1	STH1	I/O	Start pulse for source driver	Note 5-1
2	AV_{SS}	Ι	Analog GND for source driver	
3	AV _{DD}	Ι	Analog power input for source driver	Note 5-2
4	V _B	Ι	Video Input B	
5	V _G	Ι	Video Input G	Note 5-4
6	V _R	Ι	Video Input R	
7	V _{SS}	Ι	Digital GND	
8	V _{DD}	Ι	Digital power input	Note 5-3
9	CPH1	Ι	Sampling and shift clock for source driver	
10	CPH2	Ι	Sampling and shift clock for source driver	
11	CPH3	Ι	Sampling and shift clock for source driver	
12	STH2	I/O	Start pulse for source driver	Note 5-1
13	Q2H	Ι	Video input rotation control	
14	INH	Ι	Output enable for source driver	
15	R/L	Ι	Left/Right Control for source driver	Note 5-1
16	V _{COM}	I Common electrode voltage		Note 5-4
17	V _{COM}	Ι	Common electrode voltage	Note 5-4
18	XOE	Ι	Output enable for gate driver	
19	CPV	Ι	Clock input for gate driver	
20	U/D	Ι	Up/Down Control for gate driver	
21	DIO2	I/O	Vertical start pulse	Noto 5 5
22	22 DIO1 I/O		Vertical start pulse	Note 5-5
23	V _{GL}	Ι	Gate off voltage(alternative every 1-H)	Note 5-4
24	V _{EE}	Ι	Gate driver negative voltage	Note 5-6
25	V _{SS}	Ι	GND	
26	V _{cc}	Ι	Logic power for gate driver	Note 5-3
27	V _{GH}	Ι	Gate on voltage	Note 5-7
28	NC	-	No connection	-

Note 5-1 : STH1, STH2 and R/L mode

R/L	STH1	STH2	Remark
High(VDD)	Input	Output	Left to Right
Low(0 Volt.)	Output	Input	Right to Left

Note 5-2 : $AV_{DD} = +5V$ (Typ.)

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Note 5-3 : V_{DD} , V_{CC} = +3.3V (Typ.)

Note 5-4 : $V_{COM} = 6V_{PP}$.

Phase of the video signal input and V_{COM} The relation between these values could refer to 8-1 Operating condition.



Liquid crystal transmission of the video signal input, V_{COM} and timing

	V _{COM}				
	H Level L Level				
Video Signal Input Maximum	Black	White			
Video Signal Input Minimum	White	Black			

White : maximum transmission / Black : minimum transmission

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Note 5-5 : DIO1, DIO2 and U/D mode

U/D	U/D DIO1		Remark
High (VDD)	Input	Output	Down to Up
Low (0 Volt.)	Output	Input	Up to Down

Note 5-6 : V_{EE} = -15V (Typ.).

Note 5-7 : V_{GH} = +17V (Typ.).

6. Pixel Arrangement and input connector pin NO.



7. Absolute Maximum Ratings:

The followings are maximum values , which if exceeded, may cause faulty operation or damage to the unit.

				Ċ	SND = C	10° $1a = 25^{\circ}$
Parameter	Symbol	MIN.	MAX.	Unit	Remark	
Supply Voltage	Analog	AV _{DD}	-0.3	+7.0		
for Source Driver	Digital	V _{DD}	-0.3	+7.0		
Supply Voltage	Positive	V _{GH}	-0.3	+45	V	
for Gate Driver	Negative	V_{GL}	-23	+0.3	V	
		$V_{GH}-V_{GL}$	+15	+40	V	
Analog input voltage		V _{Video}	-0.3	+7.3	V	Notes:7-1
Storage Temperature			-20	+70	°C	
Operation Temperature			0	+60	°C	Notes:7-2

Notes 7-1 : Analog Input Voltage means V_R,V_G,V_B.

Notes 7-2 : Operating Temperature define that contrast, response time, other display optical character are Ta=+25.

8. Electrical Characteristics

8-1) Operating Condition

Item		Symbol	Min.	Тур.	Max.	Unit	Remark
			+3.0	+3.3	+3.6	V	
		AV_{DD}	+4.5	+5.0	+5.5	V	
Power Supp	lv	V_{GH}	+15.0	+17.0	+19.0	V	
	,	V_{EE}	-15.5	-15.0	-14.5	V	
			-	+6.0	-	V_{P-P}	AC Component of V_{GL}
		$V_{GL DC}$	-12.5	-11.0	-9.5	V	DC Component of V_{GL}
Video Signal (V _R , V _G , V _B)		V _{i AC}	-	+4.0	+4.2	V_{P-P}	AC Component Note 8-2
		V _{i DC}	-	+2.5	-	V	DC Component
V _{COM}		V _{COM AC}	-	+6.0	-	V_{P-P}	AC Component of V_{COM}
			0.76	0.96	11.6	V	DC Component of V_{COM}
	H Level	+0.7 V_{DD}	-	-	-	V	
	L Level	-	-	+0.3 V _{DD}	+0.3 V _{DD}	V	- Note 8-1

Note 8-1 : STH1,STH2,CPH1,CPH2,CPH3,Q2H,INH,CPV,XOE,DIO1,DIO2

Note 8-2 : Both NTSC and PAL system Video Signal input waveform is based on 8 steps gray scale.



Black

8-2)Current Consumption (GND=AV_{ss}=0V)

Ta= :	25 °C

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit	Remark
	I _{GH}	V _{GH} =+17V	-	0.055	0.083	mA	
	I _{GL}	V _{GL} =-12V	-	0.067	0.087	mA	V _{GL} center voltage
Current for Driver	I _{CC}	V _{CC} =+3.3V	-	0.441	0.563	mA	
	AI_{DD}	AV_{DD} =+5V	-	7	10	mA	
	I _{DD}	V _{DD} =+3.3V	-	1.2	3	mA	
	I _{EE}	V _{EE} =-15V	-	0.441	0.600	mΑ	

8-3) Backlight driving & Power Consumption

Pin No	Symbol	Description	Remark
1	VL1	Input terminal (Hi voltage side)	
3	VL2	Input terminal (Low voltage side)	Note 8-3

Note 8-3 : Low voltage side of backlight inverter connects with Ground of inverter circuits.

						Ta= 25 ℃
Parameter	Symbol	Min.	Тур.	Max.	Unit	Remark
Lamp voltage	VL	-	265	-	Vrms	I _L =3mA
Lamp current	١ _L		3		mA	
Lamp frequency	PL	25	35	65	KHz	Note 8-4
Kick-off voltage(25 $^\circ C$)	Vs	-	-	400	Vrms	Note 8-5
Kick-off voltage(0 $^{\circ}$ C)	Vs	-	-	520	Vrms	NOLE 0-5

Note 8-4 : The waveform of lamp driving voltage should be as closed to a perfect SIN wave as possible.

Note 8-5 : This value is not output voltage of inverter.

The voltage of inverter must larger than the starting voltage.

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8-4) Power Consumption

				-	Ta= 25 ℃
Parameter	Symbol	Conditions	TYP.	Unit	Remark
LCD Panel Power Consumption			50	mW	Note 8-6
Backlight Lamp Power Consumption			0.65	W	Note 8-7
Total Power Consumption			0.69	W	

Note 8-6 : The power consumption for backlight is not included.

Note 8-7 : Backlight lamp power consumption is calculated by $I_L \times V_L$.

- 8-5) Input / Output Connector
 - LCD Module Connector FFC Down Connector, 28 Pins Pitch : 0.5 mm
- B) Backlight Connector JST BHR-03VS-1 Pin No. : 3 Pitch : 4 mm

8-5) Timing Characteristics Of Input Signals

Characteristics	Symbol	Min.	Тур.	Max.	Unit	Remark
1Field Scanning Period	t1V	-	262.5	-	Н	
1Line Scanning Period	t1H	-	63.5	-	μs	
Source Driver Operating Frequency	fhc	1.0	3.14	5.0	MHz	
Signal Sampling Pulse Width	tchw	200	317.7	1000	ns	
Signal Sampling Pulse Delay	tchd	95.3	105.9	116.5	ns	tchd 12,23
Signal Sampling Pulse Width(H)	tchwh	142.9	158.8	174.7	ns	
Signal Sampling Pulse Delay(L)	tchwl	142.9	158.8	174.7	ns	
Source Start Signal Pulse Width	tshw	90	317.7	630*	ns	*tshset=tshhld
Source Start Signal Setup Time	tshset	20	158.8	-	ns	
Source Start Signal Hold Time	tshhld	20	158.8	-	ns	
Source Output Enable Pulse Width	tohw	1.0	2.0	-	μs	
Source Start Signal Rising Time	tss	-	9.8	-	μs	
Video Input Signal Start Point	tvs	-	10.0	-	μs	
Phase Difference Between OEH&CPV	toc	1.5	2.3	-	μs	
Gate Clock Period	tcvw	10	63.5	-	μs	
Gate Clock Pulse Width(H)	tcvwh	10	31.7	48	μs	
Gate Clock Pulse Width(L)	tcvwl	10	31.7	48	μs	
Gate Start Signal Pulse Width	tsvw	5	63.5	126**	μs	**tsvset=tsvhld
Gate Start Signal Setup Time	tsvset	5	53.2	-	μs	
Gate Start Signal Hold Time	tsvhld	5	10.3	-	μs	
Phase Difference Between OEH&STH	tosp	-	4	-	μs	
Phase Difference Between SYNC&OEH	tohs	-	1.4	-	μs	
Gate Output Enable Pulse Width	toev	-	2.5	-	μs	
V _{COM} Delay Time	t _{DCOM}	-	-	3	μs	
RGB Delay Time	t _{DRGB}	-	-	2	μs	
Vertical Display Start	tsv	-	3	-	tH	

8-6) Signal Timing Waveforms















Fig. 8-5 Vertical Shift Clock Timing

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Vertical timing (From up to down)



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PA035XSE

Vertical timing (From down to up)



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9. Power on Sequence(Voltage source)

The Power on Sequence only effect by V_{CC} , V_{SS} , V_{DD} , V_{EE} and V_{GH} , the others do not care.



,

10. Optical Characteristics

10-1) Specification

Ta = 25℃

		1			1			
Parameter		Symbol	Condition	MIN.	TYP.	MAX.	Unit	Remarks
	Horizontal	θ		±45	±50		deg	
Viewing Angle		heta (to 12 o'clock)	CR≧10	10	15		deg	Note 10-3
, angle	Vertical	heta (to 6 o'clock)		30	35		deg	
Contrast Ratio		CR	At optimized Viewing angle	200	350			Note 10-1
Response time	Rise	Tr	θ =0°		15	30	ms	Note 10-4
Response une	Fall	Tf	φ =0 °		25	50	ms	
Transmission	Ratio	Т		7.5	8.0	8.5	%	
Uniformity		U		65	70			
Brightness				200	250		$\textbf{cd/}m^{\!\!\!2}$	Note 10-2
White		Х	<i>θ</i> =0°	0.280	0.310	0.340		Note 10-2
Chromaticity		у		0.310	0.340	0.370		



Luminance when LCD is White

Note 10-1 : CR = Luminance when LCD is Black Contrast Ratio is measured in optimum common electrode voltage. The test configurations of contrast ratio see section 10-2.

- Note 10-2 : 1.Topcon BM-7(fast) luminance meter 1.0° field of view is used in the testing (after 20~30 minutes operation).
 - 2. Lamp current : 3 mA
 - 3. Inverter model : TDK-347.
- Note 10-3 : The definition of viewing angle diagrams :



Note 10-4 : The definitions of response time:





11. Handling Cautions

- 11-1) Mounting of module
 - a) Please power off the module when you connect the input/output connector.
 - b) Please connect the ground pattern of the inverter circuit and case surely. If the connection is not perfect, some following problems may happen possibly.
 - 1. The noise from the backlight unit will increase.
 - 2. The output from inverter circuit will be unstable.
 - 3.In some cases a part of module will heat.
 - c) Polarizer which is made of soft material and susceptible to flaw must be handled carefully.
 - d) Protective film (Laminator) is applied on surface to protect it against scratches and dirt. It is recommended to peel off the laminator before use and taking care of static electricity.
- 11-2) Precautions in mounting
 - a) When metal part of the TFT-LCD module (shielding lid and rear case) is soiled, wipe it with soft dry cloth.
 - b) Wipe off water drops or finger grease immediately. Long contact with water may cause discoloration or spots.
 - c) TFT-LCD module uses glass which breaks or cracks easily if dropped or bumped on hard surface. Please handle with care.
 - d) Since CMOS LSI is used in the module. So take care of static electricity and earth yourself when handling.
- 11-3) Adjusting module
 - a) Adjusting volumes on the rear face of the module have been set optimally before shipment.
 - b) Therefore, do not change any adjusted values. If adjusted values are changed, the specifications described may not be satisfied.
- 11-4) Others
 - a) Do not expose the module to direct sunlight or intensive ultraviolet rays for many Hours.
 - b) Store the module at a room temperature place.
 - c) The voltage of beginning electric discharge may over the normal voltage because of leakage current from approach conductor by to draw lump read lead line around.
 - d) If LCD panel breaks, it is possibly that the liquid crystal escapes from the panel. Avoid putting it into eyes or mouth. When liquid crystal sticks on hands, clothes or feet. Wash it out immediately with soap.
 - e) Observe all other precautionary requirements in handling general electronic components.
 - f) Please adjust the voltage of common electrode as material of attachment by 1 module.

12. Reliability

No.	Test Item	Test Condition
1	High Temperature Storage Test	Ta = +70 ℃, 240 hrs
2	Low Temperature Storage Test	Ta = -20 $^{\circ}$ C , 240 hrs
3	Low Temperature Operation Test	Ta = 0 °C , 240 hrs
4	High Temperature & High Humidity Operation Test	Ta = +60℃, 90%RH, 240 hrs
5	Thermal Cycling Test	-25°C →+70°C , 200 Cycles
5	(non-operating)	30 min 30 min
6	Vibration Test (non-operating)	Frequency : 10 ~ 55 H _z Amplitude : 1.0 mm Sweep time: 11 mins Test Period: 6 Cycles for each direction of X, Y, Z
7	Shock Test (non-operating)	100G, 6ms Direction: ±X, ±Y, ±Z Cycle: 3 times
8	Electrostatic Discharge Test (non-operating)	Machine Mode=±200V C=200pF,R=0Ω 1 times discharge for each pad

Ta: ambient temperature

[Criteria]

Under the display quality test conditions with normal operation state, there should be no change which may affect practical display function.

13. Indication of Lot Number Label

1. Indicated contents of the label



14. Block Diagram



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15. Packing

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<u>NOTE:</u>					5		0500041 摺	口袋450*380*700mm	1	抗靜電
1.0ne layer includ 12pcs panel &	e:1 piece c 1 piece of	of cushi trav	on shee	t,	4	50		A035XS8 Module PE CUSHION SHEET	84	计数字
2.Q'TY:84 pcs pa	nel/carton.	-					0200004 EI 0300282 Tf			抗靜電 抗靜電
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PA035XSE





Revision History

Rev.	Issued Date	Revised Contents
0.1	Feb,3 2004	NEW





□ Customer Approved

Customer

Date

By

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Date: 2005.1.10



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General Description :

This Color TFT LCD Driving Board apply to drive PVI's PA035XS1/8/J Color TFT LCD Panel, The Driving Board provides all the Needs to convert Composite video signal to the proper interface of LCD Panel. It can accept PAL and NTSC Video signal input.

Features :

- Fit PRIME VIEW PA035XS1/8/J TFT LCD
- Ultra Compact
- DC/DC DC/AC Video Decoder All In One
- PAL or NTSC Video input
- Up/Down Display Reverse
- Left/Right Display Reverse
- Single Operation Voltage 12V

Applications :

- Security
- Video Game
- Door Phone
- Video Phone
- Portable TV
- Instrument Display

Video input signal: :

• Composite Video Signal 1.0Vp-p 75R

Work temperature :

• $0^{0}C - +60^{0}C$

Storage temperature :

• $-20^{\circ}C - +80^{\circ}C$



Driving Board Function Block :





Application Schematic Diagrams





Pin	Symbol	I/O	Conditions	Min	Тур	Max	Unit
5	Video	I	PAL or NTSC		1		V
1	V in	Ι	DC(+)	10	12	15	V
	l in				250		mA
	P in		DC(+12V)		2.8		W
6	Vo	0	DC (+)		5		V
	lo				20		mA
7		I	DC (+)	1.5	1.8	2.0	V
	Bright(RGB)						
8	Contrast	I	DC (+)	1.8	2.3	2.8	V
9	Color	I	DC (+)	2.8	1.8	3.6	V
10	Tint	Ι	DC (+)	1.6	1.9	2.5	V
	Othe		Default Voltage				

Electronic Characteristics (CN1)

Other VR Default Voltage

Pin	Symbol	I/O	Conditions	Min	Тур	Max	Unit
1	BRT	Ι	DC(+)	1.8	2.03	2.2	V
2	PIC		DC(+)	0.3	0.7	1.0	V

Input / Output Connector

1.) CN1: Power & Video Input Connector

Pin No.: 14, Pitch: 1.25 mm, Molex 53398-1410 or compatibility

2.) CN2: R;G;B... Input Connector

Pin No.: 9, Pitch: 1.25 mm, Molex 53398-0910 or compatibility

3.) JP1: LCD_Singal Output Connector

FPC Down Connect , 30 Pins , Pitch : 0.5 mm

4.) CNH1: Backlight Connector

Pin No. : 2 , Pitch : 3.5 mm JST BHSR-02VS-1or compatibility



Connector Pin Definition

CN1 pin definition

-				
No.	Pin Name	I/O	Pin description	Remark
1	Vin	1	+12V power input	
2	GND	I	Power ground	
3	GND	I	Power ground	
4	GND	I	Video signal ground	
5	Video	I	Composite video signal input	
6	+5V	0	For pin7/8/9/10 control purpose	
7	Brightness	I	Brightness control voltage input	
8	Contrast	I	Contrast control voltage input	
9	Color	I	Color control voltage input	
10	Tint	I	Tint control voltage input	Reserve
11	N.C.	NC	No connection	Reserve
12	R/L	I	Picture left/right inverse control	NOTE 1
13	U/D		Picture up/down inverse control	NOTE 2
14	DIMMER		Dimmer (Default Low)	

CN2 pin definition

No.	Pin Name	I/O	Pin description	Remark
1	Rin	I	Rin	
2	Gin	I	Gin	
3	Bin	I	Bin	
4	SW	I	Switch (Video/R,G,B Select)	NOTE 3
5	SYNC IN	I	SYNC IN	
6	SYNC OUT	0	SYNC Out	
7	/HSYNC OUT	0	/HSYNC OUT	
8	/VSYNC OUT	0	/VSYNC OUT	
9	GND	I	Ground	

(1) CNH1 pin definition

No.	Pin Name	I/O		Remark
1	HV	0	Lamp driving terminal (high voltage)	
2	LV	0	Lamp driving terminal (low voltage)	

(2) JP1 pin definition

Meet PA035XS1 input definition

NOTE 1 :

R/L = Hi(+5V) for shift right , Low(GND) for shift left

NOTE 2 :

U/D = Hi(+5V) for down , Low(GND) for up

NOTE 3 :

VIDEO = Low, High(+5v) for R,G,B INPUT



Outline Dimension



Description: Outline:83.8*68.7*12.0mm Top_Layer High (Max): 8.5mm Board thickness: 1.6mm Bottom_Layer High (Max): 2.0mm 6 Screw : M3.0 Weight : 0.05kg