

Version :<u>0.2</u>

TECHNICAL SPECIFICATION

MODEL NO.: PD035VX8

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Customer's Confirmation

Customer

Date

By

E Ink's Confirmation

Dep	PM	FAE	Panel Design	Electronic Design	Mechanical Design	Product Verification	Prepared by
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gs Inc.



Revision History

Rev.	Issued Date	Revised Contents
0.1	Dec.13,2010	New
0.2	Feb.09 ,2011	 Modify 4. Mechanical Drawing of TFT-LCD module Add PLR tolerance Modify 5.Input / Output Terminals Modify 10. Block Diagram Modify 11.Interface Timing Modify 14. Optical Characteristics

TECHNICAL SPECIFICATION CONTENTS

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1.Application

This data sheet applies to a color TFT LCD module, PD035VX8. The module applies to OA product, GPS, which require high quality flat panel display. If you must use in high reliability environment can't over reliability test condition.

2. Features

- . Amorphous silicon TFT LCD panel with LED back-light unit
- . Pixel in stripe configuration
- . Display Colors : 262,144 colors
- . Optimum Viewing Direction : 6 o'clock

3.Mechanical Specifications

Parameter	Specifications	Unit
Screen Size	3.5 (diagonal)	inch
Display Format	480×(R, G, B)×640	dot
Display Colors	262,144	
Active Area	53.28 (H)×71.04 (V)	mm
Pixel Pitch	0.111 (H)×0.111 (V)	mm
Pixel Configuration	Stripe	
Outline Dimension	64 (H)×85 (V)×3.1 (D)	mm
Outline Dimension	64 (H)×85 (V)×4.2 (D) (Components side)	
Back-light	9-LEDs	
Weight	TBD	g
Surface treatment	Anti-Glare	
Display mode	Normally white	
Gray scale inversion direction	6 o'clock	
Gray scale inversion direction	[ref to Note 13-1]	



PD035VX8

SHEET 1/1 Inc. RE V. E Ink Holdings DVG. NAME PD035VX8 outline DVG. ND Reference drawing DJECTION METHOD Ø ۴ \odot INITIAL RELEASE Ę IN TREATMENT CALE Ξ HEAT & SURFACE Patrick Patrick 53.55) APPROVE CHECK MATERIAL DESIGN AREA GROUNG PAD CUU 2 (5.64) Σ (29.63 +0.3 3.10 typ NDTE: 1. GENERAL TOLERANCE: **1** 5 (05.04) AREA CENTER View Angle DUWN \square 4 00 28±0.00201 CT 56.28(b) 08.1 1929d)40.47 6ujuado (32) 23.04KPLRX 9.0±08.6 active area T1.04±0.002<LCT 08.4 4.36±0.6 5.36 3.86 3.60±0.5 (15.34) 9°30 09.81

5.Input / Output Terminals

Pin N0.	Symbol	Function	Remark
1	GND	Ground	
2		NC	
3		NC	
4		NC	
5		NC	
6	GND	Ground	
7	EXTC	Extended command set enable.	Note5-1
8	VCC	Power supply for analog circuit	Note5-2
9	NC	NC	
10	VCI	Power supply for digital circuit	Note5-2
11	NC	NC	
12	IOVCC	Power supply Interface pins	Note5-2
13	IM0	MPU Interface Select Pin	_
14	IM1	MPU Interface Select Pin	_
15	IM2	MPU Interface Select Pin	
16	IM3	MPU Interface Select Pin	Note5-3
17	RESX	Reset Input Pin	
18	NC	NC	
19	NC	NC	
20	NC	NC	
21	NC	NC	
22	NC	NC	
23	NC	NC	
24	DB17	Parallel data bus	
25	DB16	Parallel data bus	
26	DB15	Parallel data bus	
27	DB14	Parallel data bus	
28	DB13	Parallel data bus	
29	DB12	Parallel data bus	
30	DB11	Parallel data bus	
31	DB10	Parallel data bus	
32	DB9	Parallel data bus	
33	DB8	Parallel data bus	
34	DB7	Parallel data bus	
35	DB6	Parallel data bus	
36	DB5	Parallel data bus	
37	DB4	Parallel data bus	

			$JJV\Lambda0$
38	DB3	Parallel data bus	
39	DB2	Parallel data bus	
40	DB1	Parallel data bus	
41	DB0	Parallel data bus	
42	RDX	8080 system (RDX): Serves as a read signal and read data at the rising edge.	
		- 8080 system (WRX): Serves as a write signal and writes data at the rising edge.	
43	WRX_DCX	- Serial interface (DCX): The signal for command or parameter select.	
		- 8080 system (DCX): The signal for command or parameter select.	
44	DCX_SCL	- Serial interface (SCL): Serial clock input.	
45	CSX	Chip select	
46	SDA	Serial data input / output.	
47	VSYNC	Frame synchronization signal	
48	HSYNC	Line synchronization signal	
49	ENABLE	- Data enable signal for RGB interface operation.	
50	DOTCLK	- Dot clock signal for RGB interface operation.	
51	NC	NC	
52	NC	NC	
53	NC	NC	
54	NC	NC	
55	NC	NC	
56	NC	NC	
57	NC	NC	
58	PWM_OUT	- Back light control pin. The PWM frequency output for LED driver control.	
		- Back light control pin. This pin is connected to external LED driver, It's a LED	
59	BC_CTL	driver control pin which is used for turning ON/OFF of LED back light.	
60	LED-	Cathode of LED	
61	LED+	Anode of LED	

Note : 5-1

Extended command set enable :

Low: extended command set is discarded.

High: extended command set is accepted.

Note : 5-2

VCC: Connect to an external power supply of 3 V.

VCI: Connect to an external power supply of 3 V.

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IOVCC : Connect to an external power supply of 3 V.

Note : 5-3

MPU Interface Select Pin

IM3	IM2	IM1	IM0	Interface	Data Pin in Use
0	0	1	0	8080 16-bit bus interface DB[15:0]	DB[15:0]
0	1	0	1	Serial interface	SDA

6.Absolute Maximum Ratings:

VSS=0V, Ta=25°C

			100 01, 1u	-00
ltem	Symbol	Unit	Value	Note
Supply voltage	VCI	V	-0.3~+5.0	
Supply voltage (Logic)	IOVCC,VCC	V	-0.3~+4.6	
Supply voltage (Digital)	VCORE	V	-0.3~+2.4	
Driver supply voltage	VGH-VGL	V	-0.3~+33.0	
Logic input voltage range	VIN	V	-0.3~IOVCC+0.3	
Logic output voltage range	VOUT	V	-0.3~IOVCC+0.3	
Operating temperature	Topr	°C	-20~+70	
Storage temperature	Tstg	°C	-30~+80	

7. Electrical Characteristics

7-1) Operation Condition

TBD

7-2) Backlight driving

TBD

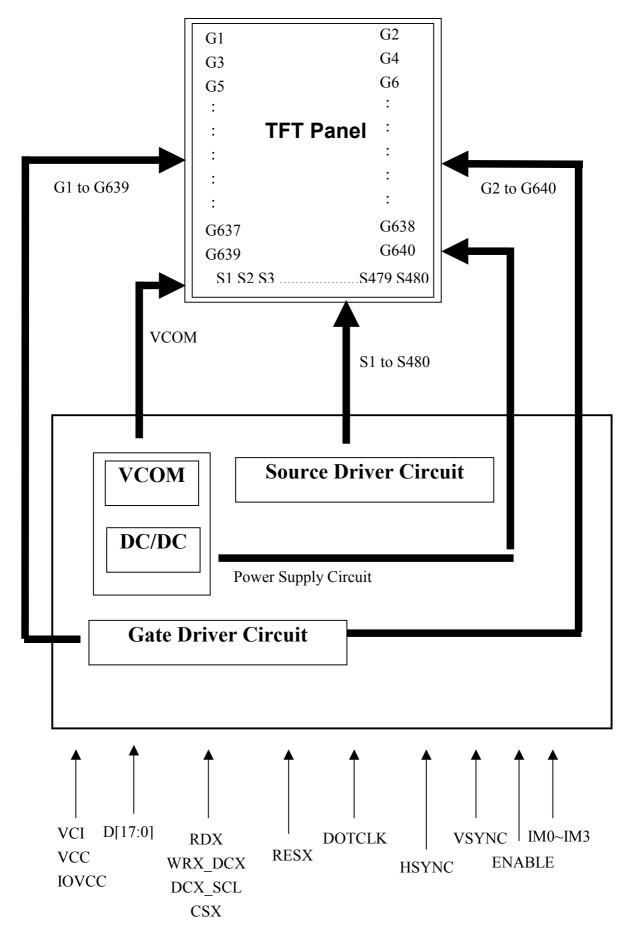
8. Pixel Arrangement

TBD

• E Ink Holdings Inc. 9. Display Color and Gray Scale Reference

								In	put	: Co	olor	Da	ta						
Color				R	ed					Gre	en					BI	ue		
		R5	R4	R3	R2	R1	R0	G5	G4	G3	G2	G1	G0	B5	B4	B 3	B2	B1	B0
	Black	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red (63)	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Green (63)	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
Basic	Blue (63)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
Colors	Cyan	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
	Magenta	1	1	1	1	1	1	0	0	0	0	0	0	1	1	1	1	1	1
	Yellow	1	1	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0
	White	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	┺	1	1
	Red (00)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red (01)	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Red (02)	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Darker																		
Red	\downarrow	\downarrow	\rightarrow	\rightarrow	\rightarrow	\downarrow													
	Brighter																		
	Red (61)	1	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0
	Red (62)	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0
	Red (63)	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0
	Green (00)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Green (01)	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
	Green (02)	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	Darker																		
Green	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	↓	\downarrow	\downarrow	↓	\downarrow							
	Brighter																		
	Green (61)	0	0	0	0	0	0	1	1	1	1	0	1	0	0	0	0	0	0
	Green (62)	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0
	Green (63)	0	0	0	0	0	0	1	1	1	1	1	1	0	0	0	0	0	0
	Blue (00)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Blue (01)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Blue (02)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0
	Darker																		
Blue	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow	\downarrow
	Brighter																		
	Blue (61)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1
	Blue (62)	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0
	Blue (63)	0	0	0	0	0	0	0	0		0	0	0	1	1	1	1	1	1

10. Block Diagram

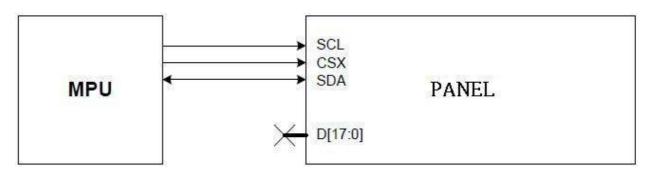


11.Interface Timing

11-1) Serial Interface Mode

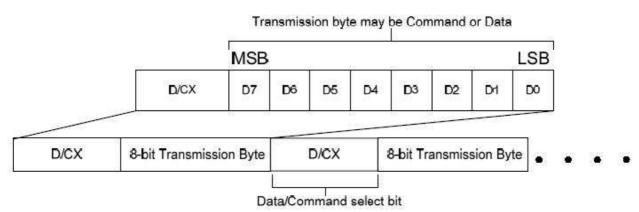
11-1-1) Block Diagram

The serial bus interface can be used by setting external pin as IM [3:0] to "0101". The figure in the following is the example of interface with microcomputer system interface.

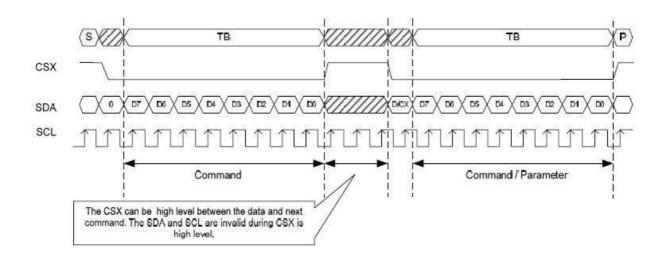


11-1-2) Data Format

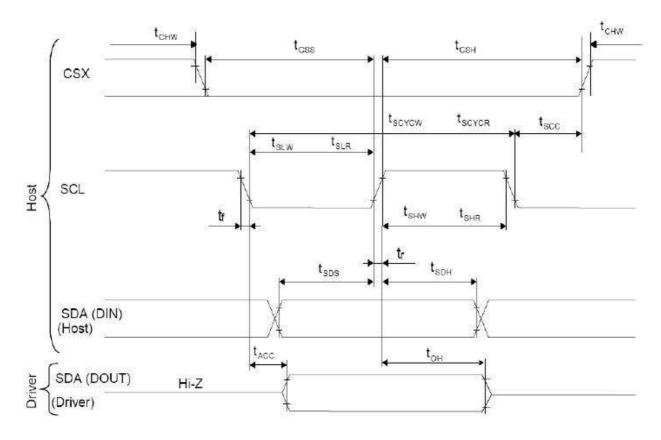
The serial data packet contains a data/command select bit (D/CX) and a transmission byte. If D/CX is "low", the transmission byte is interpreted as a command byte. If D/CX is "high", the transmission byte is stored in the display data RAM (Memory write command), or command register as parameter.







11-1-4) Timing Diagram



Signal	Symbol	Parameter	min	max	Unit	Description
10701-	tscycw	Serial Clock Cycle (Write)	40	1776	ns	47
	tshw	SCL "H" Pulse Width (Write)	15	- 228	ns	
SCL	tslw	SCL "L" Pulse Width (Write)	15		ns	
SUL	tscycr	Serial Clock Cycle (Read)	150	328	ns	
	tshr	SCL "H" Pulse Width (Read)	60	(1 4 6)	ns	
	tslr	SCL "L" Pulse Width (Read)	60	100	ns	
SDA / SDI	tsds	Data setup time (Write)	10	943	ns	
(Input)	tsdh	Data hold time (Write)	10	- 22	ns	
SDA / SDO	tacc	Access time (Read)	10	60	ns	
(Output)	toh	Output disable time (Read)	15	1.75	ns	
	tscc	SCL-CSX	30	122	ns	
CSX	tchw	CSX "H" Pulse Width	60	1.000	ns	
054	tcss	COV COL Time	15	100 C	ns	
	tcsh	CSX-SCL Time	15	0 6 8	ns	

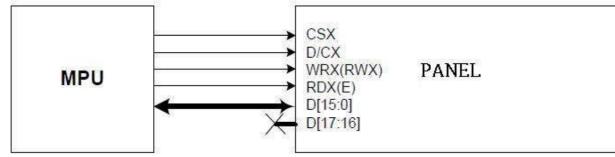
11-2) 8080-Series Parallel Interface Mode

11-2-1) Block Diagram

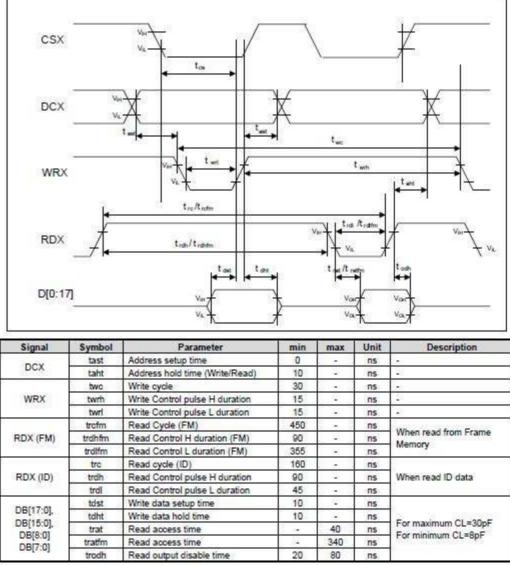
The 8080-system 16-bit parallel bus interface can be used by setting external pin as IM [3:0] to "0010". The figure in the following is the example of interface with microcomputer system interface.

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PD035VX8



11-2-2) Timing Diagram

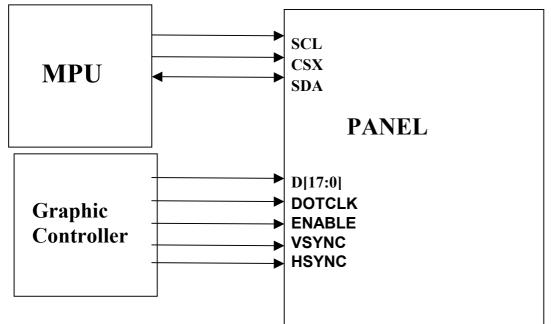


Note: (1) Ta = -30 to 70 °C, IOVCC=1.65V to 3.3V, VCC=2.5V to 3.3V, AGND=DGND=0V

11-3) RGB Interface Mode

11-3-1) Block Diagram

This mode is operated with VSYNC, HSYNC, ENABLE, DOTCLK, DB[17:0] lines. The mode can be used by setting external pin as IM [3:0] to "0101". The figure in the following is the example of interface with microcomputer system interface.

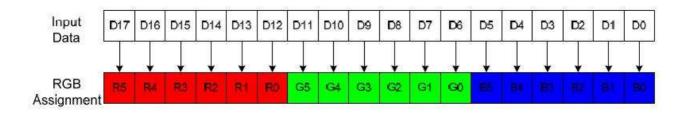


11-3-2) RGB Interface Selection

The panel supports several pixel format that can be selected by DPI [2:0] bits in "Pixel Format Set (3Ah)" command. The selection of a given interfaces are done by DPI [2:0] as show in the following table.

	DPI[2:0]		RGB Interface Mode	Used Pins
1	0	1	16-bit RGB interface	VSYNC, HSYNC, ENABLE, DB[15:0]
1	1	0	18-bit RGB interface	VSYNC, HSYNC, ENABLE, DB[17:0]
	Other		S	etting prohibited

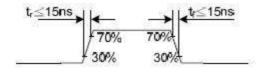
The 18-bit RGB interface is selected by setting the DPI[2:0] bits to "110". The display operation is synchronized with VSYNC, HSYNC and DOTCLK signals. The display data are transferred to the internal GRAM in synchronization with the display operation via 18-bit RGB data bus (DB[17:0]) according to the data enable signal (ENABLE).

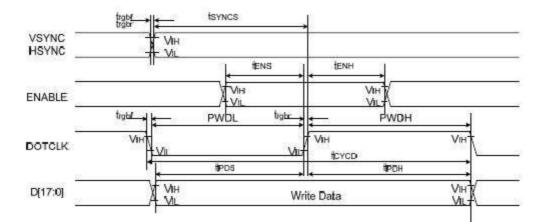


11-3-3) Timing Characteristics

Signal	Symbol	Parameter	min	max	Unit	Description
VSYNC /	terrice	VSYNC/HSYNC setup time	15		ns	100 C
HSYNC	tsynch	VSYNC/HSYNC hold time	15		ns	
ENABLE	tENB	ENABLE setup time	15	1 e 1	ns	l.
ENADLE	T ENH	ENABLE hold time	15		ns	
DB[17:0]	teos	Data setup time	15	. 8 .	ns	18/16-bit bus RGB
DELUTIO	t PDH	Data hold time	15	× 1	ns	interface mode
	PWDH	DOTCLK high-level period	15		ns	
DOTCLK	PWDL	DOTCLK low-level period	15	[2]	ns	Ľ –
	teyep	DOTCLK cycle time	30	6 🛪 8	ns	
	tiger, tiger	DOTCLK, HSYNC, VSYNC rise/fall time	1. 220	15	ns	×

Note: Ta = -30 to 70 °C, IOVCC=1.65V to 3.3V, VCC=2.5V to 3.3V, AGND=DGND=0V





11-4) Display on Flow

//power Init_Data_Comm(0x00C1); Init_Data_Param(0x0011); Init_Data_Param(0x004D); Init_Data_Param(0x000D);

Init_Data_Comm(0x00EA); Init_Data_Param(0x0000);

Init_Data_Comm(0x00F2); Init_Data_Param(0x0040); Init_Data_Param(0x004B); Init_Data_Param(0x0002); Init_Data_Param(0x002B); Init_Data_Param(0x004A); Init_Data_Param(0x0035);

//Postive Gamma Control
Init_Data_Comm(0x00E0);



Init Data Param(0x0005); Init Data Param(0x000B); Init Data Param(0x0011); Init Data Param(0x0012); Init Data Param(0x0012); Init Data Param(0x001B); Init Data Param(0x000E); Init Data Param(0x000F); Init Data Param(0x0000); Init Data Param(0x0007); Init Data Param(0x0004); Init Data Param(0x0011); Init Data Param(0x0010); Init Data Param(0x0027); Init Data Param(0x0009); Init Data Param(0x0025); //Negative Gamma Correction Init Data Comm(0x00E1); Init Data Param(0x0025); Init Data Param(0x0010); Init Data Param(0x0028); Init Data Param(0x0010); Init Data Param(0x0011); Init Data Param(0x0003); Init Data Param(0x0007); Init Data Param(0x0002); Init Data Param(0x000C); Init Data Param(0x000E); Init Data Param(0x001B); Init Data Param(0x0011); Init Data Param(0x0012); Init Data Param(0x0010); Init Data Param(0x000B); Init Data Param(0x0006); DelayX10ms(12); //Display Inversion Control Init Data Comm(0x00b4); Init Data Param(0x0001);

//display inversion ON
Init_Data_Comm(0x0021);

//frame rate control
Init_Data_Comm(0x00B1);
Init_Data_Param(0x0000);
Init_Data_Param(0x0010);



Init_Data_Param(0x0016);

//INTERFACE PIXEL FORMAT
Init Data Comm(0x003A);

Init Data Param(0x0066);

//Memory Access Control
Init_Data_Comm(0x0036);
Init_Data_Param(0x0008);

Init_Data_Comm(0x00FC); Init_Data_Param(0x0000); Init_Data_Param(0x0000);

//VCOM CONTROL 1
Init_Data_Comm(0x00C5);
Init_Data_Param(0x0000);
Init_Data_Param(0x0029);

//Display Function Control Init_Data_Comm(0x00B6); Init_Data_Param(0x0032); Init_Data_Param(0x0082); Init_Data_Param(0x00FF); Init_Data_Param(0x0005);

Init_Data_Comm(0x00F7); Init_Data_Param(0x0088); Init_Data_Param(0x0080); Init_Data_Param(0x000D); Init_Data_Param(0x0009); Init_Data_Param(0x0006);

DelayX10ms(20);

Init_Data_Comm(0x00F0); Init_Data_Param(0x0000);

Init_Data_Comm(0x00F9); Init_Data_Param(0x0002);

//SLEEP OUT Init_Data_Comm(0x0011);

//Display ON Init_Data_Comm(0x0029);

//MEMORY WRITE

Init_Data_Comm(0x002C);

//Interface mode control

Init_Data_Comm(0x002A); Init_Data_Param(0x0000); Init_Data_Param(0x0000); Init_Data_Param(0x0001); Init_Data_Param(0x000F);

Init_Data_Comm(0x002B); Init_Data_Param(0x0000); Init_Data_Param(0x0000); Init_Data_Param(0x0002); Init_Data_Param(0x007F);

Init_Data_Comm(0x002C);

Init_Data_Comm(0x00B0); Init_Data_Param(0x0001);

12.Power On Sequence TBD

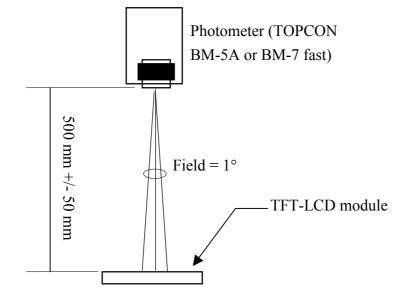
13. Optical Characteristics

13-1) Specification:

Ta=25°C TYP. **Parameter** Symbol Condition MIN. MAX. Unit Remarks θ 22 \cdot θ 21 Horizontal (70)(75)deg Note 13-1 -Viewing CR>10 (45) θ 12 (50)deg -Angle Vertical θ 11 (45)(50)deg _ At optimized Contrast Ratio CR Note 13-2 _ viewing _ (400)(450)angle 30 Rise Tr 15 ms Response time $\theta = 0^{\circ}$ Note 13-3 Fall Τf 20 10 ms $\theta = 0^{\circ} / \varphi = 0$ **Brightness** L (500)cd/m² --_ U Luminance Uniformity (75)(80)% Note 13-4 _ -Х _ _ TBD TBD TBD White Chromaticity y TBD TBD TBD _ Cross Talk % *θ* =0° 3.5 Note 13-5 ---**+25**°C LED life time TBD TBD Hr _



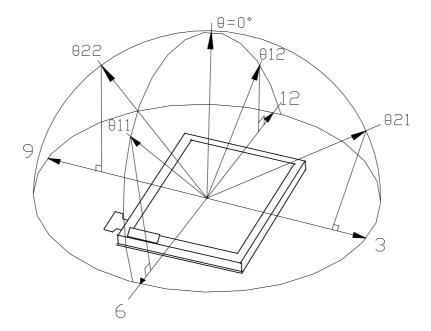
All optical measurements shall be performed after backlight being turned-on for 30 mins. The optical characteristics shall be measured in dark room (ambient illumination on panel surface less than 1 Lux). The measuring configuration shows as following figure.



Optical characteristics measuring configuration

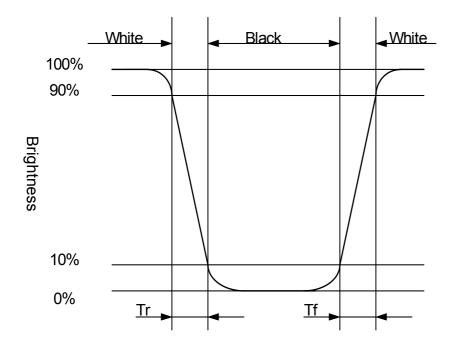
Topcon BM-5A or BM-7 fast luminance meter 1° field of view is used in the testing.

Note 13-1: The definitions of viewing angles are as follow



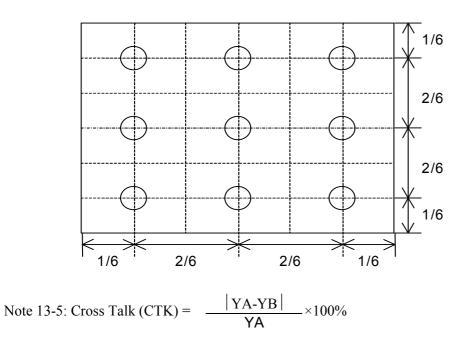
Note 13-2: The definition of contrast ratio $CR = \frac{\text{Luminance at gray level 63}}{\text{Luminance at gray level 0}}$

Note 13-3: Definition of Response Time Tr and Tf:

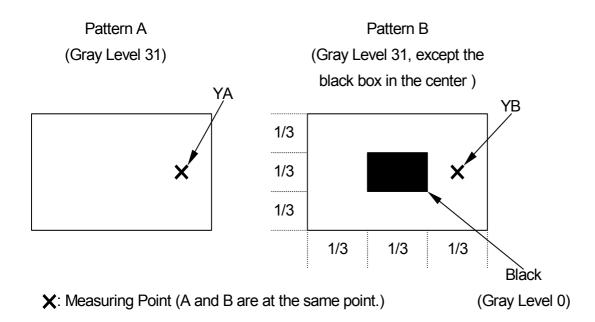


Note 13-4: The uniformity of LCD is defined as

U = The Minimum Brightness of the 9 testing Points The Maximum Brightness of the 9 testing Points Luminance meter: BM-5A or BM-7 fast (TOPCON) Measurement distance: 500 mm +/- 50 mm Ambient illumination: < 1 Lux Measuring direction: Perpendicular to the surface of module The test pattern is white (Gray Level 63).



YA: Brightness of Pattern A
YB: Brightness of Pattern B
Luminance meter: BM-5A or BM-7 fast (TOPCON)
Measurement distance: 500 mm +/- 50 mm
Ambient illumination: < 1 Lux
Measuring direction: Perpendicular to the surface of module



14. Handling Cautions

- 14-1) Mounting of module
 - a) Please power off the module when you connect the input/output connector.
 - b) Polarizer which is made of soft material and susceptible to flaw must be handled carefully.
 - c) 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.
 - d) Please following the tear off direction as figure 14-1 to remove the protective film as slowly as possible, so that electrostatic charge can be minimized.

14-2) 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.
- 14-3) 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.

14-4) 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.

14-5) Polarizer mark

The polarizer mark is to describe the direction of wide view angle film how to match

up with the rubbing direction.

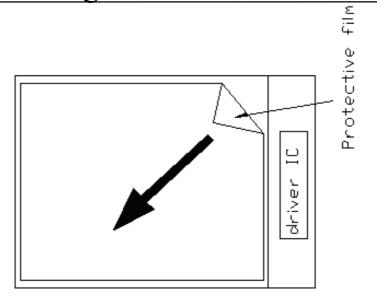


Figure 14-1 the way to peel off protective film

15. Reliability Test

No	Test Item	Test Condition
1	High Temperature Storage Test	Ta = +80°C , 240 hrs
2	Low Temperature Storage Test	Ta = -30° C, 240 hrs
3	High Temperature Operation Test	Ta = +70°∁, 240 hrs
4	Low Temperature Operation Test	Ta = -20℃, 240 hrs
5	High Temperature & High Humidity	Ta = +60℃, 90%RH, 240 hrs
	Operation Test	(No Condensation)
6	Thermal Cycling Test	-30°C→ +80°C, 100 Cycles
	(non-operating)	30min 30min
7	Vibration Test (non-operating)	Frequency : 10 ~ 55 H _z
		Amplitude : 1 mm
		Sweep time: 11 mins
		Test Period: 6 Cycles for each direction of X, Y, Z
8	Shock Test (non-operating)	100G, 6ms
		Direction: $\pm X$, $\pm Y$, $\pm Z$
		Cycle: 3 times
9	Electrostatic Discharge Test (non-operating)	200pF , 0 Ω
		±200V
		1 time / each terminal

[Criteria]

1. In the standard conditions, there is not display function NG issue occurred. (including :line defect ,no image) All the cosmetic specification is judged before the reliability stress

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TBD