



FLAT DISPLAY TECHNOLOGY



This product is RoHS compliant

§ SPECIFICATION APPROVAL SHEET §

Fdt Tech Module No

LP050N2I~~xx~~-F~~x~~R

Description:

5" Digital TFT-LCD Module

SPEC No.:

SAS-0902002

Version:

0.2

Issue Date:

June 4, 2014

※ This approval sheet contains 35 pages including the cover and appendix.

Customer:

Date: / / 14

APPROVED BY:

APPROVED BY:

CHECKED BY:

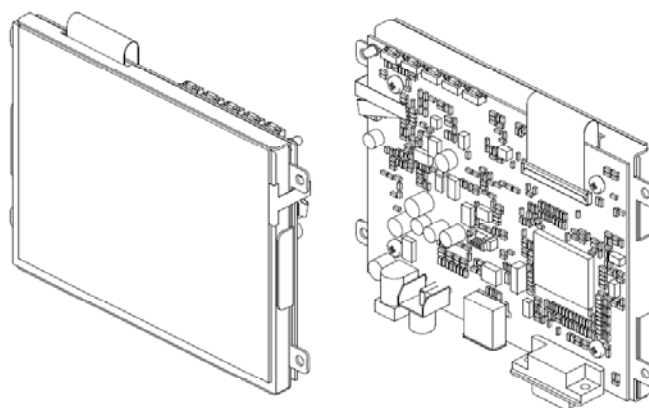
DESIGNED BY:



FLAT DISPLAY TECHNOLOGY

5" Digital TFT-LCD Module

- LP050N2IU1-FXR
- LP050N2IC1-FxR
- LP050N2IVx-FxR
- LP050N2IBx-FxR



1. General Description

1.1 Features

- 5" Digital TFT LCD
- Ultra Compact
- NTSC/PAL/SECAM Video Auto Switch
- Single Operation Voltage +12V
- CVBS (Option) / Analog RGB (PC Mode) (Option) Signal Input
- All Functions can be controlled by UART
- Support Touch Screen Function (Option)

1.2 Applications

- Portable product
- Industrial
- Hand-held
- Security
- Instrument Display
- Office Electronics

1.3 Application Precautions

Do not use the products herein for the following equipment which demands extremely high performance in terms of functionality, reliability, or accuracy.

- Aerospace equipment
- Communication equipment for trunk lines.
- Control equipment for the nuclear power industry.
- Medical equipment related to life support, etc.

The other application that demands high reliability and functionality should first contact a sales representative.

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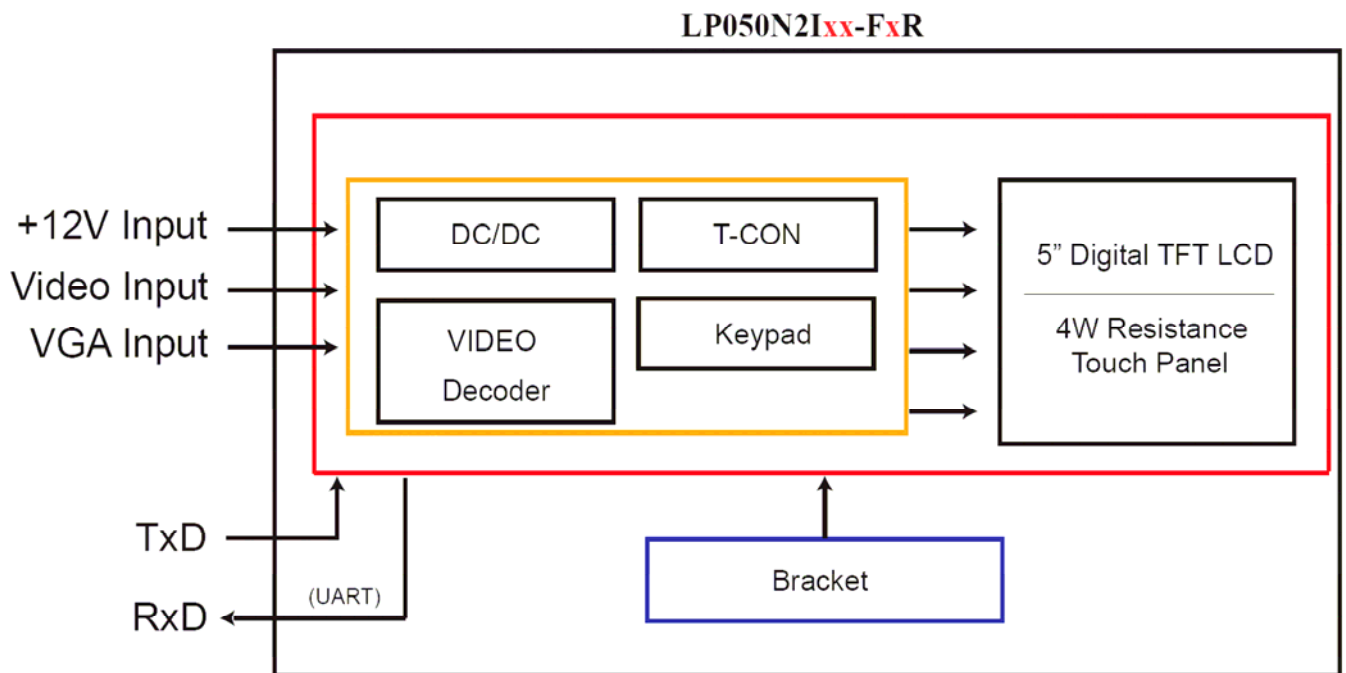
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3. Block Diagram

3.1 Block Diagram



4. TFT-LCD Information

4.1 TFT-LCD Mechanical Specifications

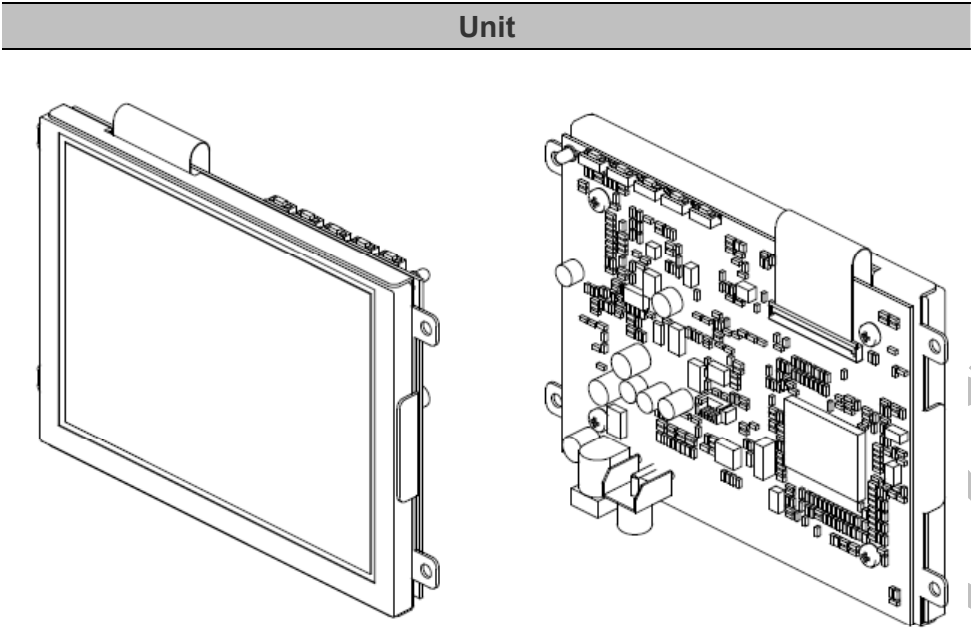
Parameter	Specifications	Unit
Screen Size	5 (diagonal)	inch
Display Format	640 x (R.G.B) x 480	dot
Active Area	101.568 (W) x 76.176 (H)	mm
Pixel Pitch	0.1587 (W) x 0.1587 (H)	mm
Pixel Configuration	Stripe	
Outline Dimension	117.65 (W) x 88.43 (H) x 5.7(D)	mm
Surface Treatment	Anti – Glare	
Weight	0.108 (Typ)	Kg
Display Mode	Normally White, Transmissive	

4.2 TFT-LCD Optical Characteristics

Parameter	Symbol	Condition	Min	Typ	Max	Unit	Remark
Viewing Angle	Horizontal	Left	60	70	---	deg	
		Right	60	70	---		
	Vertical	Top	40	50	---	deg	
		Bottom	60	70	---	deg	
Contrast Ratio	CR	At optimized Viewing angle	400	500	---	---	
Response time	Rise Fall	Tr	---	10	20	ms	
		Tf	---	15	30	ms	
Uniformity	U		70	75	---	%	
Brightness	L		150	200	---	cd/m ²	
White Chromaticity	x	$\theta = 0^\circ$	0.26	0.31	0.36		
	y	$\theta = 0^\circ$	0.28	0.33	0.38		
LED Life Time		25°C	20000	---	---	Hr	

5. Order Information

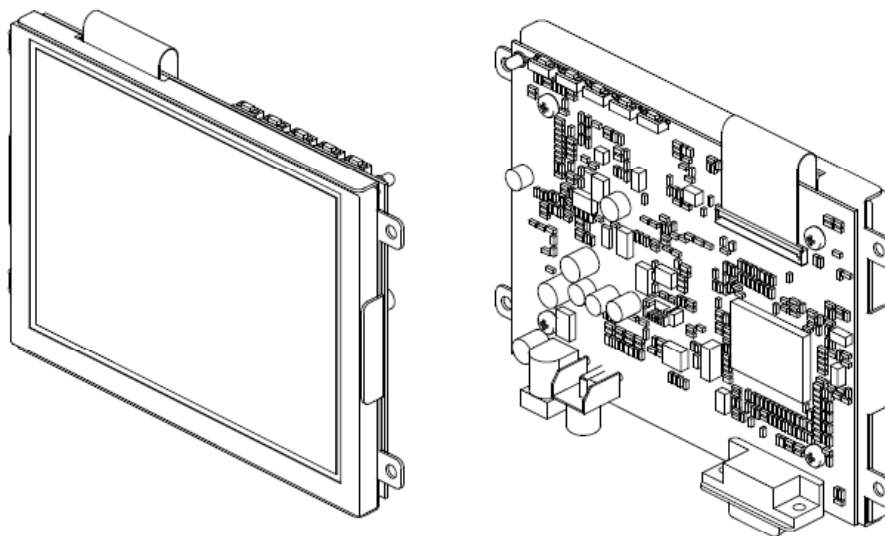
5.1 Unit (Video Only)



Parameter	LP050N2IV1-FBR	LP050N2IV1-FNR	Unit
CVBS (Video)	1	1	
AC to DC Adapter 12V/2.5A (LASTD12025-FDR)	⊙	-	
Power Cord Plug Type B for USA (LAAC818000-FDR)	⊙	-	
Video Cable (LAVDO18000-FDR)	⊙	-	

Note: 1.The assembling of panel and bracket is aimed for delivery, packaging and experiement. If the demand of shockproof and longterm fix, pls have it into consideration of mechanism design.

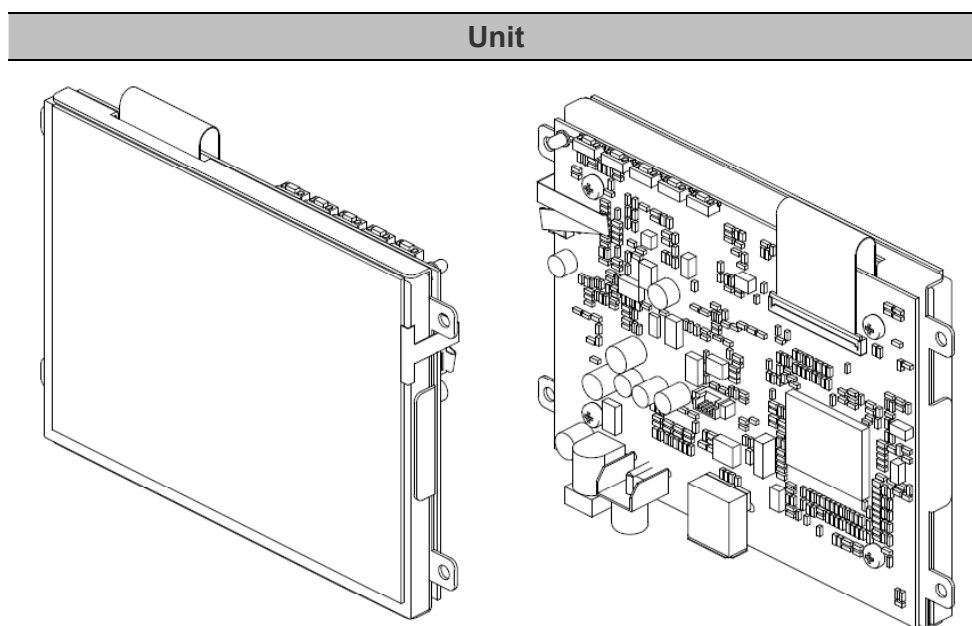
Unit



Parameter	LP050N2IB1-FBR	LP050N2IB1-FNR	Unit
CVBS (Video)	1	1	
VGA (D-Sub15 / 2.0mm 14Pin)	D-Sub15	D-Sub15	
AC to DC Adapter 12V/2.5A (LASTD12025-FDR)	⊙	-	
Power Cord Plug Type B for USA (LAAC818000-FDR)	⊙	-	
Video Cable (LAVDO18000-FDR)	⊙	-	
VGA Cable (LAVGA16000-FDR)	⊙	-	

Note: 1.The assembling of panel and bracket is aimed for delivery, packaging and experieiment. If the demand of shockproof and longterm fix, pls have it into consideration of mechanism design.

5.3 Unit (Video +Touch)



Parameter	LP050N2IV4-FBR	LP050N2IV5-FBR	LP050N2IV4-FNR	LP050N2IV5-FNR	Unit
CVBS (Video)	1	1	1	1	
Touch Panel Type	4W Resistive	4W Resistive	4W Resistive	4W Resistive	
Touch Screen Interface	USB	RS232	USB	RS232	
AC to DC Adapter 12V/2.5A (LASTD12025-FDR)	⊙	⊙	-	-	
Power Cord Plug Type B for USA (LAAC818000-FDR)	⊙	⊙	-	-	
Video Cable (LAVDO18000-FDR)	⊙	⊙	-	-	
USB Cable (LAUSB18000-FDR)	⊙	-	-	-	
RS-232 Cable (LARS218000-FDR)	-	⊙	-	-	
Touch Screen Driver CD Disk	⊙	⊙	-	-	

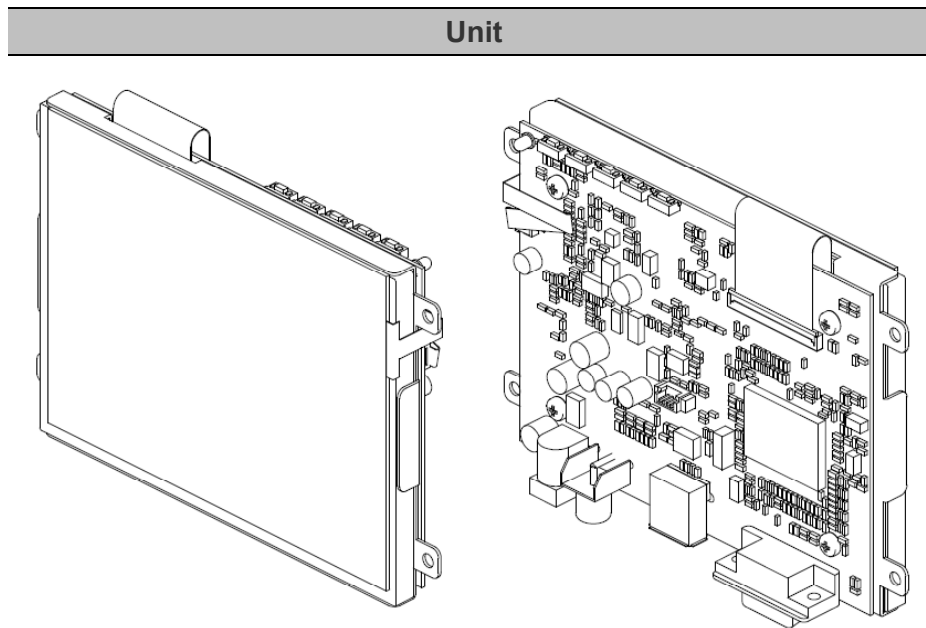
Note: 1.The assembling of panel and bracket is aimed for delivery, packaging and experient. If the demand of shockproof and longterm fix, pls have it into consideration of mechanism design.

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5.4 Unit (Video +VGA +Touch)



Parameter	LP050N2IB4-FBR	LP050N2IB5-FBR	LP050N2IB4-FNR	LP050N2IB5-FNR	Unit
CVBS (Video)	1	1	1	1	
VGA (D-Sub15 / 2.0mm 14Pin)	D-Sub15	D-Sub15	D-Sub15	D-Sub15	
Touch Panel Type	4W Resistive	4W Resistive	4W Resistive	4W Resistive	
Touch Screen Interface	USB	RS232	USB	RS232	
AC to DC Adapter 12V/2.5A (LASTD12025-FDR)	⊙	⊙	-	-	
Power Cord Plug Type B for USA (LAAC818000-FDR)	⊙	⊙	-	-	
Video Cable (LAVDO18000-FDR)	⊙	⊙	-	-	
VGA Cable (LAVGA16000-FDR)	⊙	⊙	-	-	
USB Cable (LAUSB18000-FDR)	⊙	-	-	-	
RS-232 Cable (LARS218000-FDR)	-	⊙	-	-	
Touch Screen Driver CD Disk	⊙	⊙	-	-	

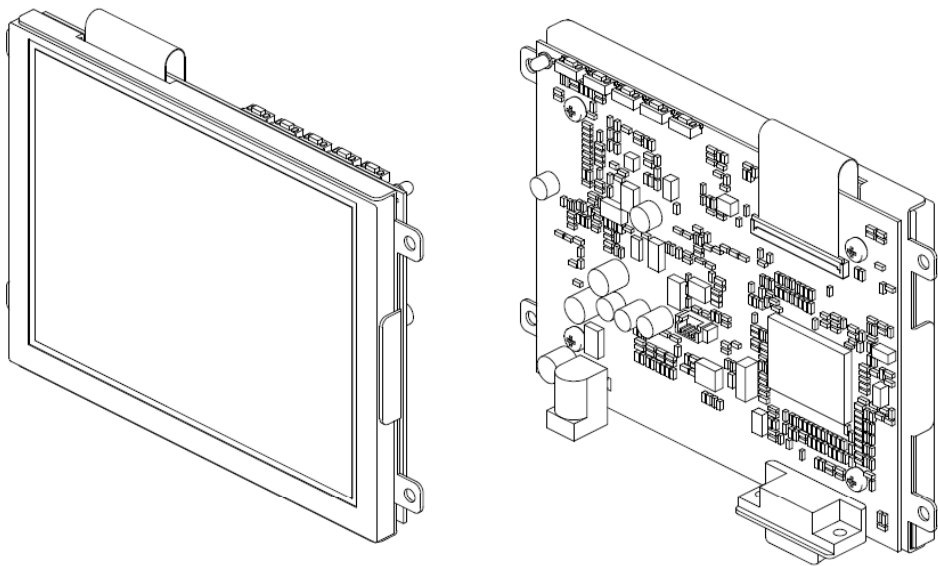
Note: 1.The assembling of panel and bracket is aimed for delivery, packaging and experient. If the demand of shockproof and longterm fix, pls have it into consideration of mechanism design.

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Unit

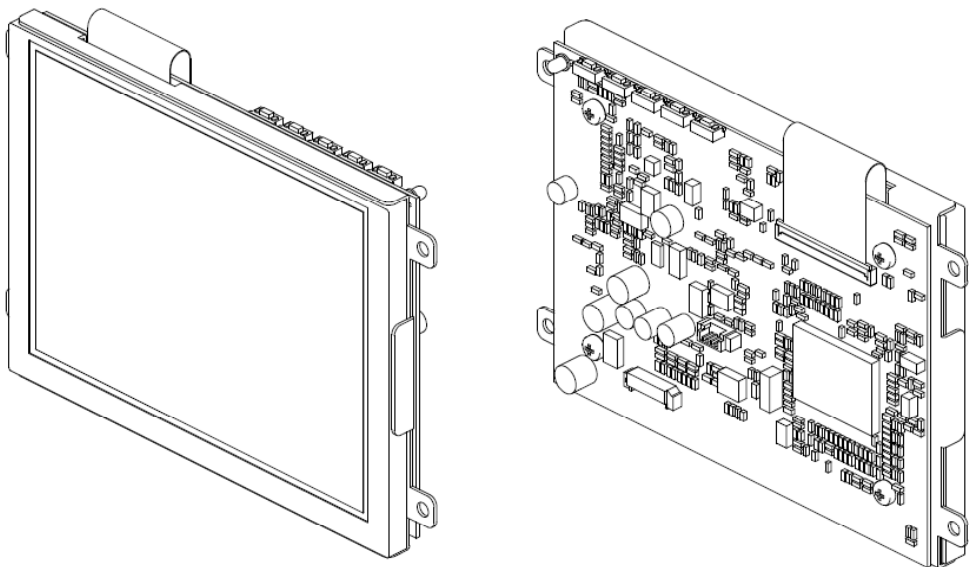


Parameter	LP050N2IC1-FBR	LP050N2IC1-FNR	Unit
VGA (D-Sub15 / 2.0mm 14Pin)	D-Sub15	D-Sub15	
AC to DC Adapter 12V/2.5A (LASTD12025-FDR)	⊙	-	
Power Cord Plug Type B for USA (LAAC818000-FDR)	⊙	-	
VGA Cable (LAVGA16000-FDR)	⊙	-	

Note: 1.The assembling of panel and bracket is aimed for delivery, packaging and experiemnt. If the demand of shockproof and longterm fix, pls have it into consideration of mechanism design.

5.6 Unit (Video Only- Pitch 1.25mm 8Pin, Side Entry Type)

Unit

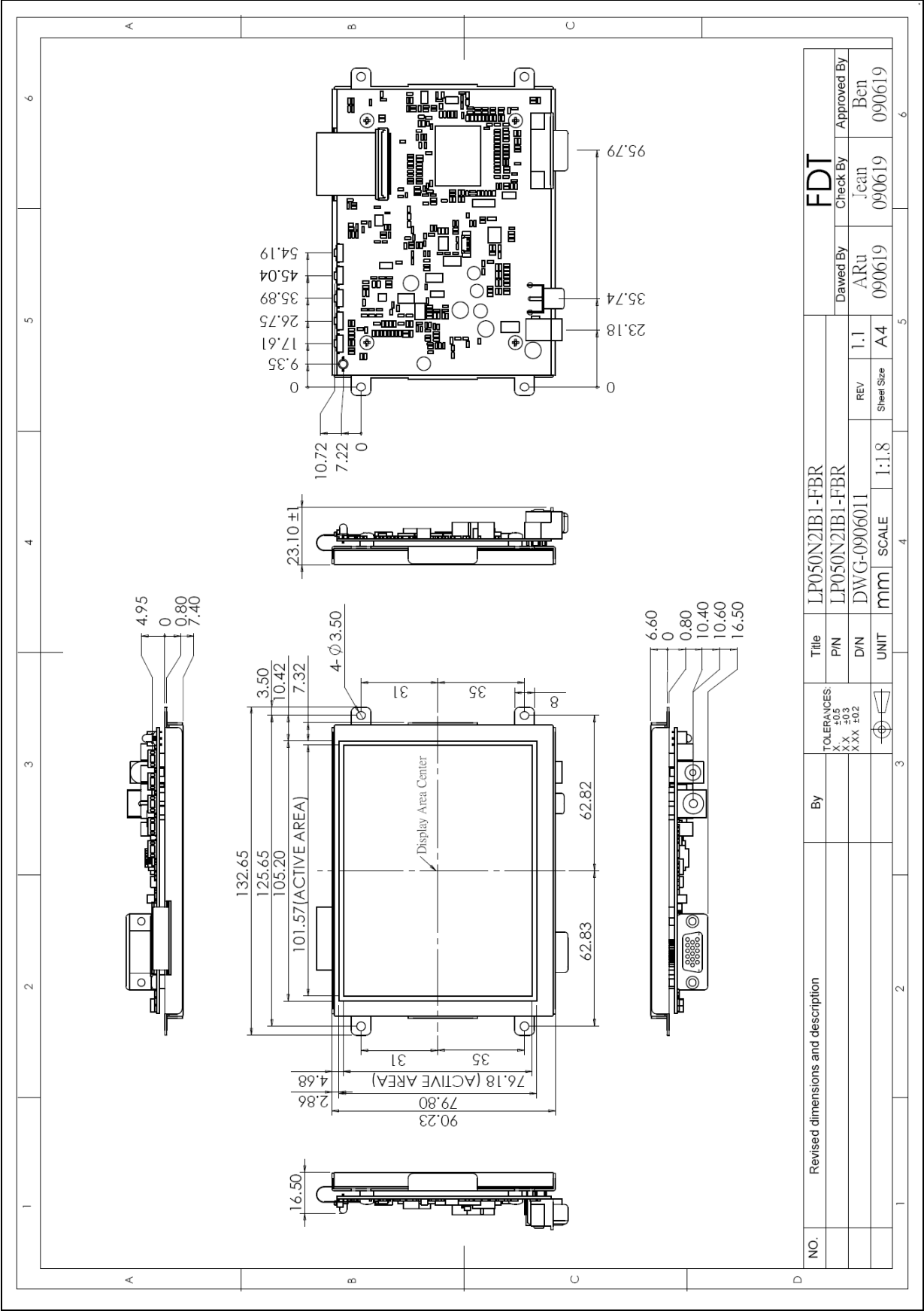


Parameter	LP050N2IU1-FXR	Unit
CVBS (Video)	1	
Connector	POWER & VIDEO Connection Type (Pitch 1.25mm 8Pin, Side Entry Type)	

Note: 1.The assembling of panel and bracket is aimed for delivery, packaging and experiement. If the demand of shockproof and longterm fix, pls have it into consideration of mechanism design.

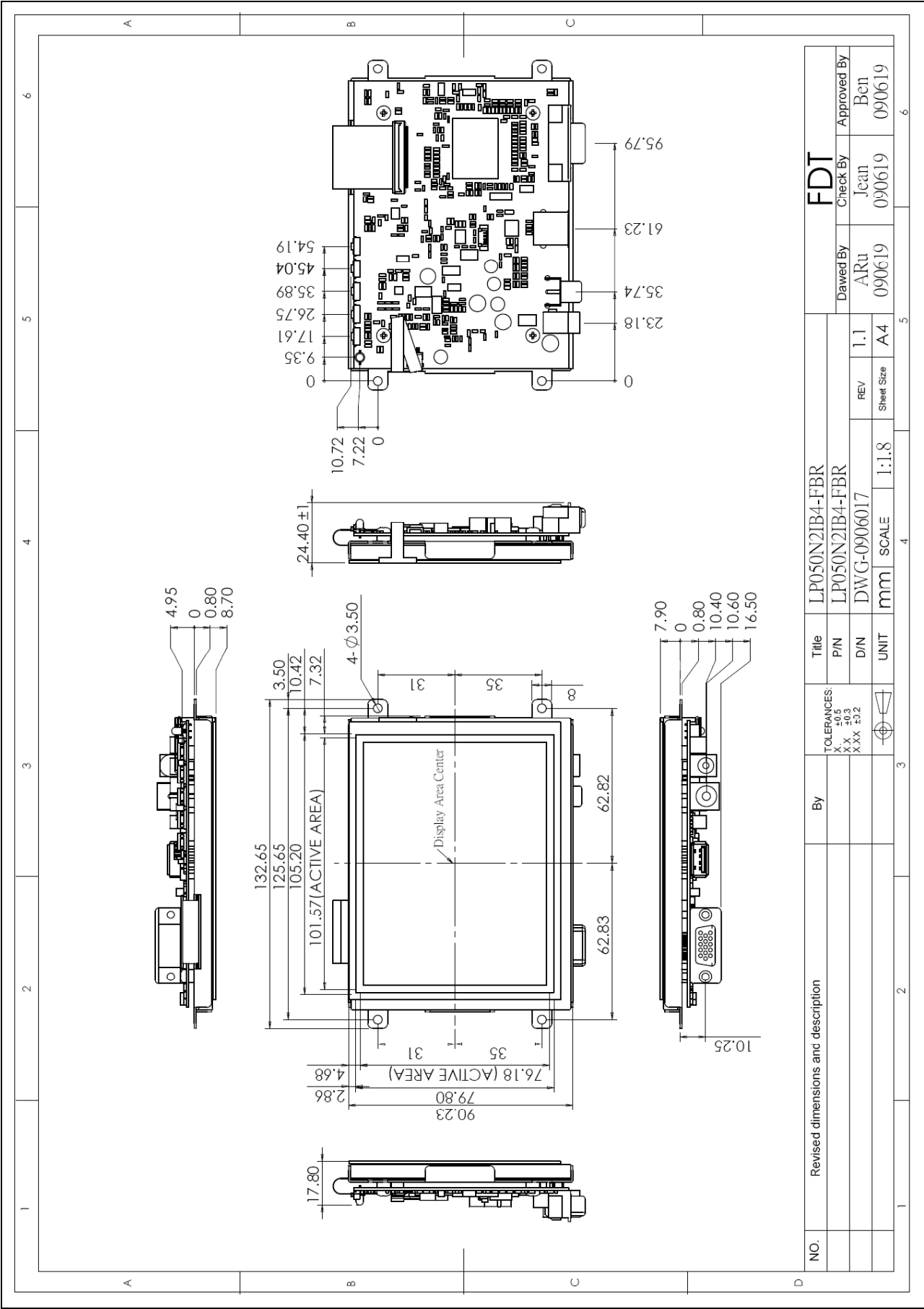
6. Dimension Information

6.1 Unit (LP050N2IB1-FBR)



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6.2 Unit (LP050N2IB4-FBR)



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Technical drawing of the LP050N2IB5-FBR display assembly. The drawing includes front, top, and side views with dimensions in mm.

Front View Dimensions:

- Overall width: 132.65
- Overall height: 125.65
- Active area width: 101.57 (ACTIVE AREA)
- Active area height: 76.18 (ACTIVE AREA)
- Display Area Center
- Mounting holes: 4-Ø3.50
- Mounting hole spacing: 31, 35, 80
- Mounting hole diameter: 3.50
- Mounting hole offset: 10.42, 7.32
- Mounting hole offset: 101.57 (ACTIVE AREA)
- Mounting hole offset: 105.20
- Mounting hole offset: 125.65
- Mounting hole offset: 132.65
- Mounting hole offset: 17.80
- Mounting hole offset: 2.86
- Mounting hole offset: 4.68
- Mounting hole offset: 79.80
- Mounting hole offset: 90.23

Top View Dimensions:

- Overall width: 95.79
- Overall height: 61.23
- Mounting holes: 4-Ø3.50
- Mounting hole spacing: 23.18, 35.74, 61.23
- Mounting hole diameter: 3.50
- Mounting hole offset: 10.72, 7.22, 0
- Mounting hole offset: 9.35, 17.61, 26.75, 35.89, 45.04, 54.19

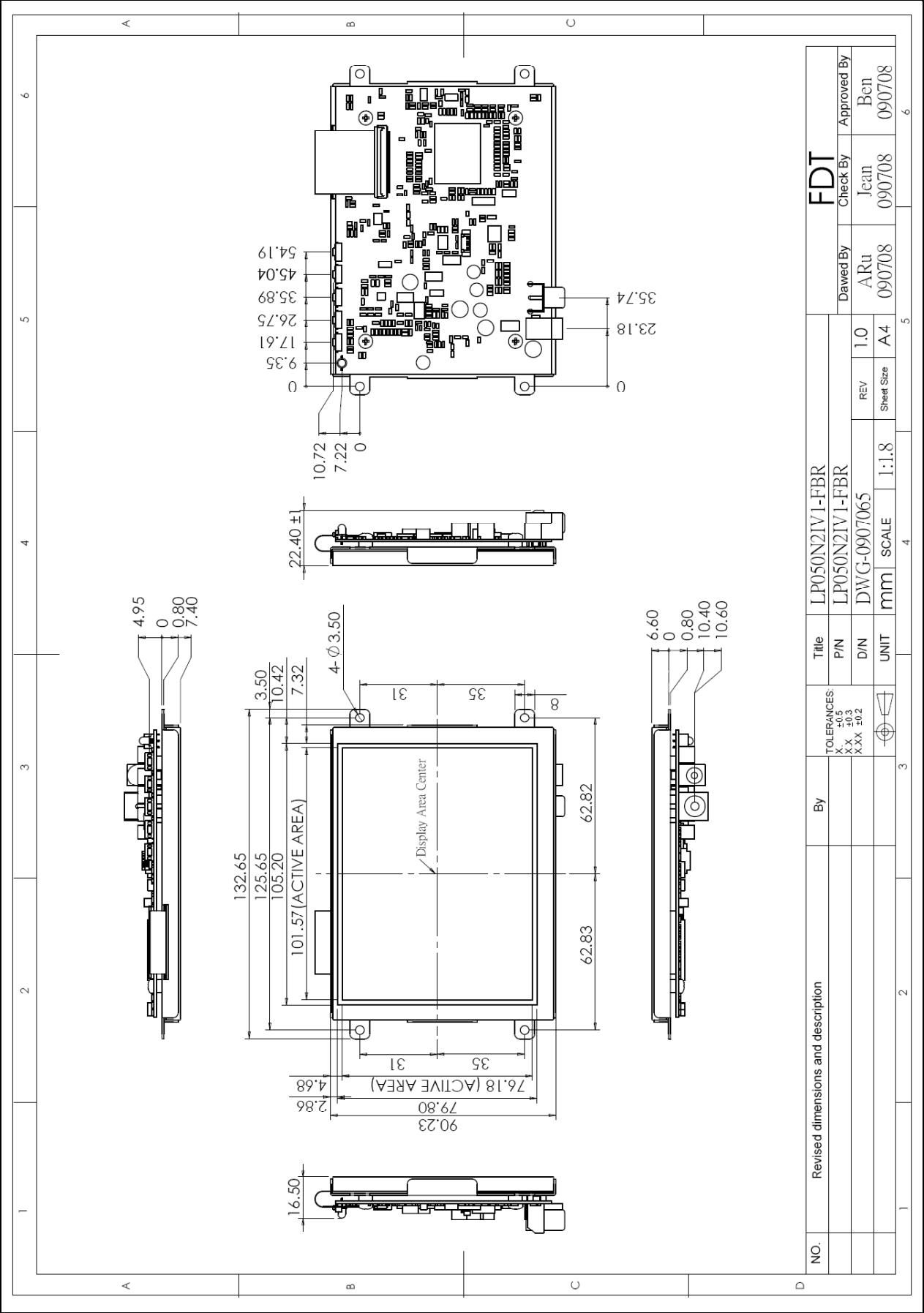
Side View Dimensions:

- Overall height: 16.55
- Mounting hole offset: 7.90, 0, 0.80, 10.40, 10.60, 16.55

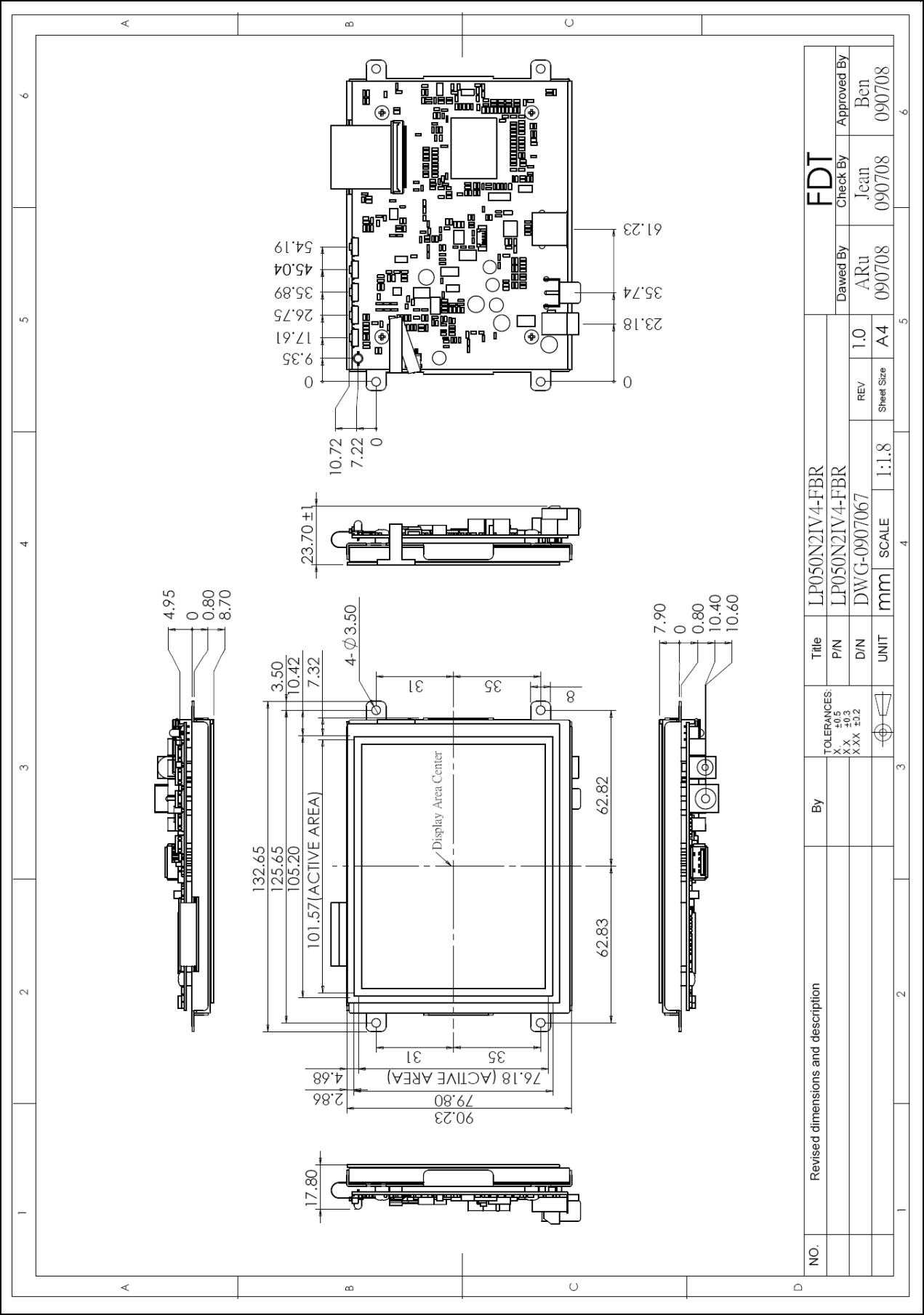
NO.	Revised dimensions and description	By	TOLERANCES: X ±0.5 XX ±0.3 XXX ±0.2	UNIT	SCALE	REV	Check By	Approved By
				mm	1:1.8	1.1	ARu	Jean Ben
				mm	1:1.8	A4	090619	090619

■ LP050N2Ixx-FxR V0.2

6.4 Unit (LP050N2IV1-FBR)



6.5 Unit (LP050N2IV4-FBR)

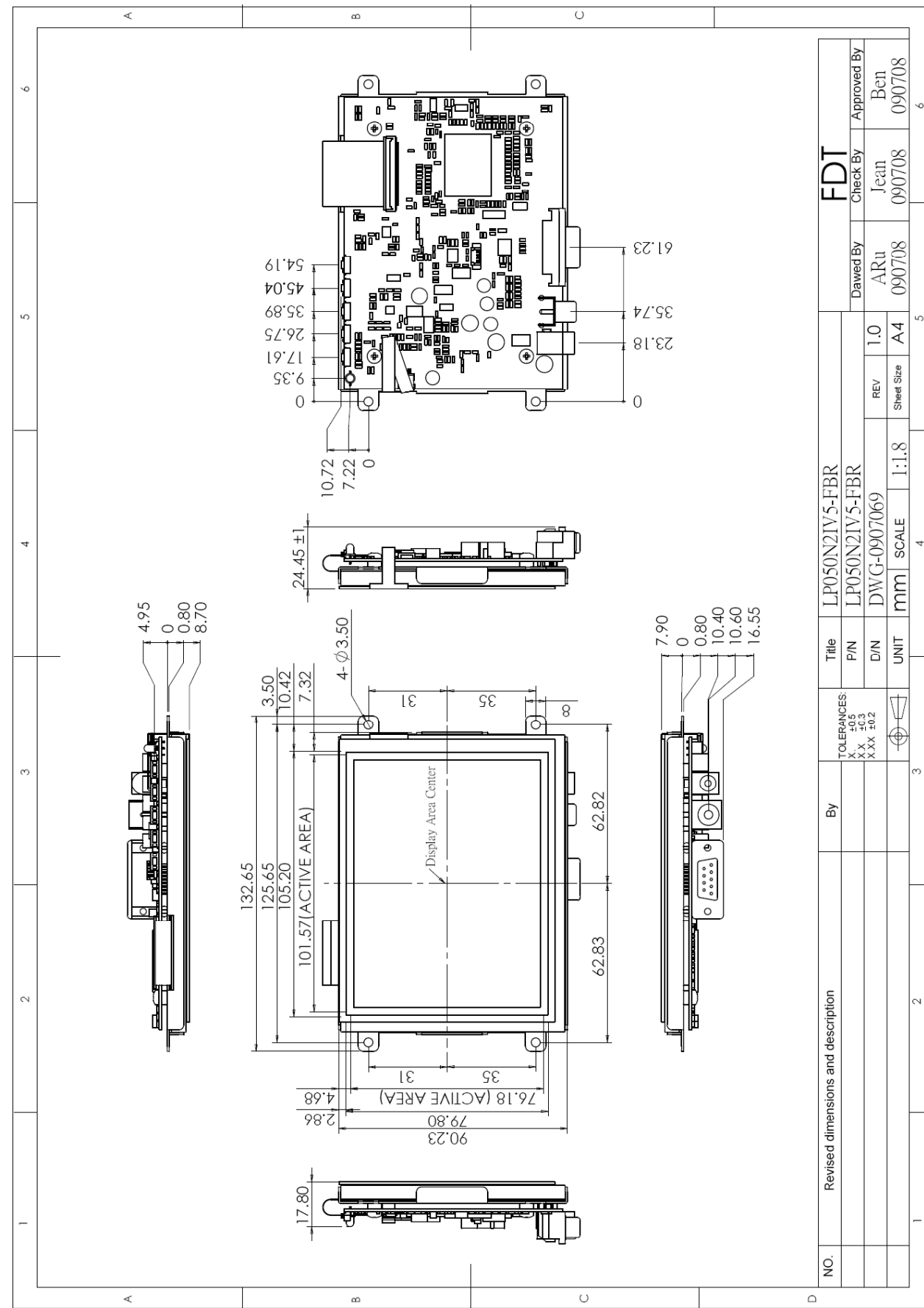


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■ LP050N2Ixx-FxR V0.2



6.6 Unit (LP050N2IV5-FBR)



NO.	Revised dimensions and description	By	TOLERANCES: X ±0.5 X X ±0.3 X X X ±0.2	Title				FDT									
				LP050N2IV5-FBR				Dated By				Check By		Approved By			
				LP050N2IV5-FBR				REV				ARu		Jean		Ben	
				D/WG-0907069				1:1.8				090708		090708		090708	
				UNIT				SCALE				mm		A4		090708	
																	

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■ LP050N2xx-FxR V0.2



[illegible]

Technical drawing of the LP050N2IU1-FXR display module. The drawing includes front, top, and side views with dimensions in millimeters (mm) and inches (in).

Front View Dimensions:

- Overall Width: 132.65 mm (5.22 in)
- Overall Height: 62.83 mm (2.47 in)
- Active Area Width: 76.18 mm (2.99 in)
- Active Area Height: 101.57 mm (3.99 in)
- Mounting Hole Spacing: 31 mm (1.22 in)
- Mounting Hole Diameter: 4-Ø3.50 mm (0.138 in)
- Display Area Center: Indicated by a dashed line.

Top View Dimensions:

- Overall Width: 132.65 mm (5.22 in)
- Overall Height: 62.83 mm (2.47 in)
- Mounting Hole Spacing: 31 mm (1.22 in)
- Mounting Hole Diameter: 4-Ø3.50 mm (0.138 in)

Side View Dimensions:

- Overall Thickness: 16.50 mm (0.65 in)
- Mounting Flange Thickness: 4.95 mm (0.19 in)
- Mounting Flange Width: 7.40 mm (0.29 in)
- Mounting Flange Height: 0.80 mm (0.03 in)

Bottom View Dimensions:

- Overall Width: 132.65 mm (5.22 in)
- Overall Height: 62.83 mm (2.47 in)
- Mounting Hole Spacing: 31 mm (1.22 in)
- Mounting Hole Diameter: 4-Ø3.50 mm (0.138 in)

Other Dimensions:

- Display Area Center: 101.57 mm (3.99 in)
- Mounting Hole Spacing: 31 mm (1.22 in)
- Mounting Hole Diameter: 4-Ø3.50 mm (0.138 in)
- Mounting Flange Thickness: 4.95 mm (0.19 in)
- Mounting Flange Width: 7.40 mm (0.29 in)
- Mounting Flange Height: 0.80 mm (0.03 in)

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7. Pin Description

7.1 J302 : LCD Panel I/O Terminals (FPC 50 Pin Below Contact Type)

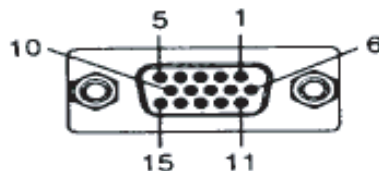
Pin No	Symbol	I/O	Description	Remark
1	VLED+	P	Power for LED backlight anode	
2	VLED+	P	Power for LED backlight anode	
3	VLED-	P	Power for LED backlight cathode	
4	VLED-	P	Power for LED backlight cathode	
5	GND	P	Power ground	
6	VCOM	I	VCOM input	
7	VDD	P	Digital power supply(+3.3V)	
8	MODE	I	DE or HV mode control	
9	DE	I	Data Enable	
10	VS	I	Vsync signal input	
11	HS	I	Hsync signal input	
12	B7	I	Blue data input (MSB)	
13	B6	I	Blue data input	
14	B5	I	Blue data input	
15	B4	I	Blue data input	
16	B3	I	Blue data input	
17	B2	I	Blue data input	
18	B1	I	Blue data input	
19	B0	I	Blue data input(LSB)	
20	G7	I	Green data input(MSB)	
21	G6	I	Green data input	
22	G5	I	Green data input	
23	G4	I	Green data input	
24	G3	I	Green data input	
25	G2	I	Green data input	
26	G1	I	Green data input	
27	G0	I	Green data input(LSB)	
28	R7	I	Red data input(MSB)	
29	R6	I	Red data input	
30	R5	I	Red data input	
31	R4	I	Red data input	
32	R3	I	Red data input	
33	R2	I	Red data input	
34	R1	I	Red data input	
35	R0	I	Red data input (LSB)	
36	GND	P	Power ground	
37	DCLK	I	Sample clock	

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38	GND	P	Power ground	
39	L/R	I	Select left to right scanning direction	
40	U/D	I	Select up or down scanning direction	
41	VGH	I	Positive power for scan driver	
42	VGL	I	Negative power for scan driver	
43	AVDD	P	Power supply for analog circuit	
44	RESET	I	Reset	
45	POL	O	Polarity select for the line inversion control signal	
46	VCOM	I	VCOM input	
47	NC	-	No Connector	
48	NC	-	No Connector	
49	NC	-	No Connector	
50	NC	-	No Connector	

7.2 J101B : Pin Assignment of Analog RGB Input (D-Sub 15Pin)

Pin No	Symbol	I/O	Description	Remark
1	RI+	I	Analog Red Signal	
2	GI+	I	Analog Green Signal	
3	BI+	I	Analog Blue Signal	
4	NC	-	No Connection	
5	GND	-	Ground	
6	AGND	-	Analog Ground	
7	AGND	-	Analog Ground	
8	AGND	-	Analog Ground	
9	NC	-	No Connection	
10	NC	-	No Connection	
11	NC	-	No Connection	
12	NC	-	No Connection	
13	HS_IN	I	TTL Horizontal sync	
14	VS_IN	I	TTL Vertical sync	
15	NC	-	No Connection	



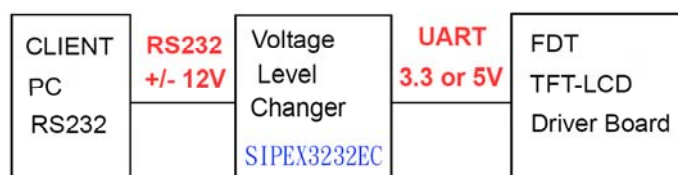
7.3 J104: Pin Assignment of UART (Pitch 1.25mm 4Pin, Top Entry Type)

※ FDT Connector Part No.: MS24014 (STM) [Same as 53398-0471 (MOLEX)] ;

※ FDT Matching Connector Part No.: P24014 (STM) [Same as 51021-0400 (MOLEX)].

Pin No	Symbol	I/O	Description	Remark
1	TX	O	UART Transmission Data	
2	RX	I	UART Receive Data	
3	GND	-	Ground	
4	VDDP	O	+3.3V Output Voltage	

Note: All Functions can be controlled by UART, About UART command list please contact FDT sales.



7.4 DC JACK: Pin Assignment of Power Input (Inside Diameter:2.1 ϕ Outside Diameter:5.5 ϕ Side Entry Type)

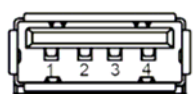
Pin No	Symbol	I/O	Description	Remark
1	VIN	I	+12V Input Voltage	
2	GND	-	Power Ground	

7.5 RCA: Pin Assignment of Video Input (RCA JACK Yellow, Side Entry Type)

Pin No	Symbol	I/O	Description	Remark
1	Video	I	Video Input	
2	AGND	-	Analog Ground	

7.6 J401B : Pin Assignment of Touch USB (USBA-Female 2.0mm, Side Entry Type)(Option)

Pin No	Symbol	I/O	Description	Remark
1	VBUS	-	USB VCC	
2	D-	-	DATA (-)	
3	D+	-	DATA (+)	
4	DGND	-	Digital Ground	



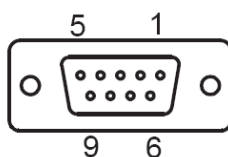
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7.7 J401C : Pin Assignment of Touch RS232 (D-SUB 9 FEMALE)(Option)

Pin No	Symbol	I/O	Description	Remark
1	-	-	Don't Connect	
2	TXD	-	Transmit Data	
3	RXD	-	Receive Data	
4	-	-	Don't Connect	
5	GND	-	Ground	
6	NC	-	No Connection	
7	-	-	Don't Connect	
8	-	-	Don't Connect	
9	NC	-	No Connection	



7.8 J102A : Pin Assignment of Signal Input (Pitch 1.25mm 8Pin, Side Entry Type) (Option)

※ FDT Connector Part No.: MS24018R (STM) [Same as 53261-0819 (MOLEX)] ;

※ FDT Matching Connector Part No.: P24018 (STM) [Same as 51021-0800 (MOLEX)].

Pin No	Symbol	I/O	Description	Remark
1	VCC12V	I	+12V Input Voltage	
2	VCC12V	I	+12V Input Voltage	
3	GND	-	Ground	
4	GND	-	Ground	
5	VIDEO1	I	Video1 Input Signal	
6	GND	-	Ground For Video1	
7	VIDEO2	I	Video2 Input Signal (Option)	
8	GND	-	Ground For Video2	

8. Absolute Maximum Ratings

8.1 Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Remark
Input Voltage	Vin	+9	+15	V	
Video Input Signal	Video in	0.5	2.0	Vp-p	@75Ω
Analog RGB Input Signal	Analog RGB in	0.5	2.0	Vp-p	@75Ω
Digital Input Signal	TTL	+0.3	+3.6	V	
Operating Temperature		-20	+60	°C	
Operating Temperature With TSP		-20	+60	°C	
Storage Temperature Without TSP		-20	+70	°C	
Storage Temperature With TSP		-20	+70	°C	

9. Recommended operating conditions

9.1 Electrical Characteristics

Parameter	Symbol	I/O	Min	Typ	Max	Unit	Note
Input Voltage	Vin	I	+10	+12	+14	V	
Total Current	Iin (+12V)	I	357	298	256	mA	±15%
Power Consumption		I	3.57	3.577	3.584	W	
Output Voltage	VDD	O	+3.2	+3.3	+3.4	V	I=10mA
Video Input Signal	Video in	I		1.0		Vp-p	@75Ω
Analog RGB Input Signal	Analog RGB in	RGB I		0.7		Vp-p	@75Ω

9.2 VGA Mode Characteristics

Dots per inch	Hor.	Unit	Polarity	Ver.	Unit	Polarity	Note
640*480	31.469	KHz	Negative	59.941	Hz	Negative	
800*600	37.879	KHz	Positive	60.317	Hz	Positive	
1024*768	48.363	KHz	Negative	60.004	Hz	Negative	

9.3 Panel Backlight Data

Parameter	Symbol	Min	Typ	Max	Unit	Note
Voltage for LED Backlight	VL	9.3	9.9	10.5	V	IL = 120mA, (±10%)
Current for LED Backlight	IL	108	120	132	mA	

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9.4 Optics Sample Test Data

Parameter	White Window	Red	Green	Blue	Remark
S/N : 001 x	0.284	0.570	0.324	0.144	
.y	0.299	0.331	0.599	0.094	±15%
L(cd/m²)	202.1				
TC(°K)	9150				

Note: 1. Luminance Meter : BM-7 FAST(TOPCON)

2.Video Pattern Generator: FLUKE PM54200

3. Measurement Distance : 500mm±50mm

4. TOPCON BM-7 Luminance Meter 2° filed of view is used in the testing

(After 10min ~20min operation)

10.4W Resistive Touch Panel Characteristics

10.1 Pin assignment (Pitch :1.0 mm)

Pin No	Symbol	Description	Remark
1	X2	Lower electrode X (Right side)	
2	Y1	Upper electrode Y (Upper side)	
3	X1	Lower electrode X (Left side)	
4	Y2	Upper electrode Y (Down side)	

10.2 Electrical Performance

Parameter	Symbol	Min	Typ	Max	Unit	Remark
Terminal Resistance	X	90	-	820	Ω	
	Y	200	-	550	Ω	
Input Voltage	VT	-	-	5.0	V	
Linearity		-	-	1.5	%	
Insulation Impedance		20	-	-	MΩ	DC 25V
Response Time		-	-	10	ms	

10.3 Optical Performance

Parameter	Specifications
Transmittance	$\geq 82\%$ Typ.
Haze	8.0% Typ.

10.4 Mechanical Performance

Parameter	Specifications
Input Method	Finger or stylus pen
Operating Force	5gf~80gf
Surface Hardness	3H or more

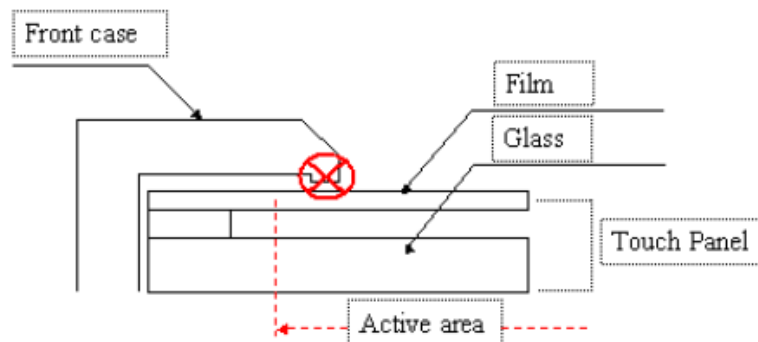
10.5 Durability Performance

Parameter	Specifications
Pen Sliding Durability	≥ 30000 times, with R8.0 mm silicon rubber, 250g, 5Hz
Finger knocking Durability	≥ 1 Million times, with R0.8 mm polyacetal stylus, 250g, 210 mm / sec

10.6 Touch Screen Integration Design Guide

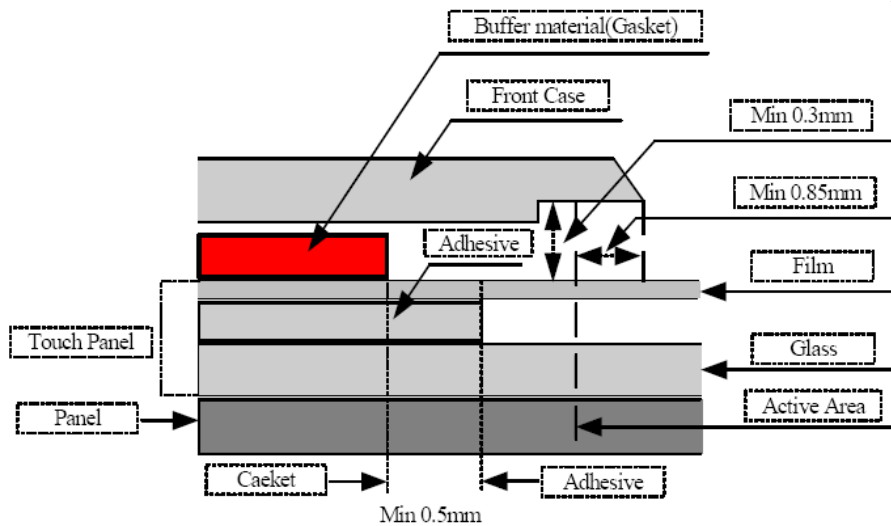
Avoid the design that Front-case overlap and press on the active area of the touch-panel.

Give enough gap (over 0.5mm at compressed) between the front case and touch-panel to protect wrong operating.



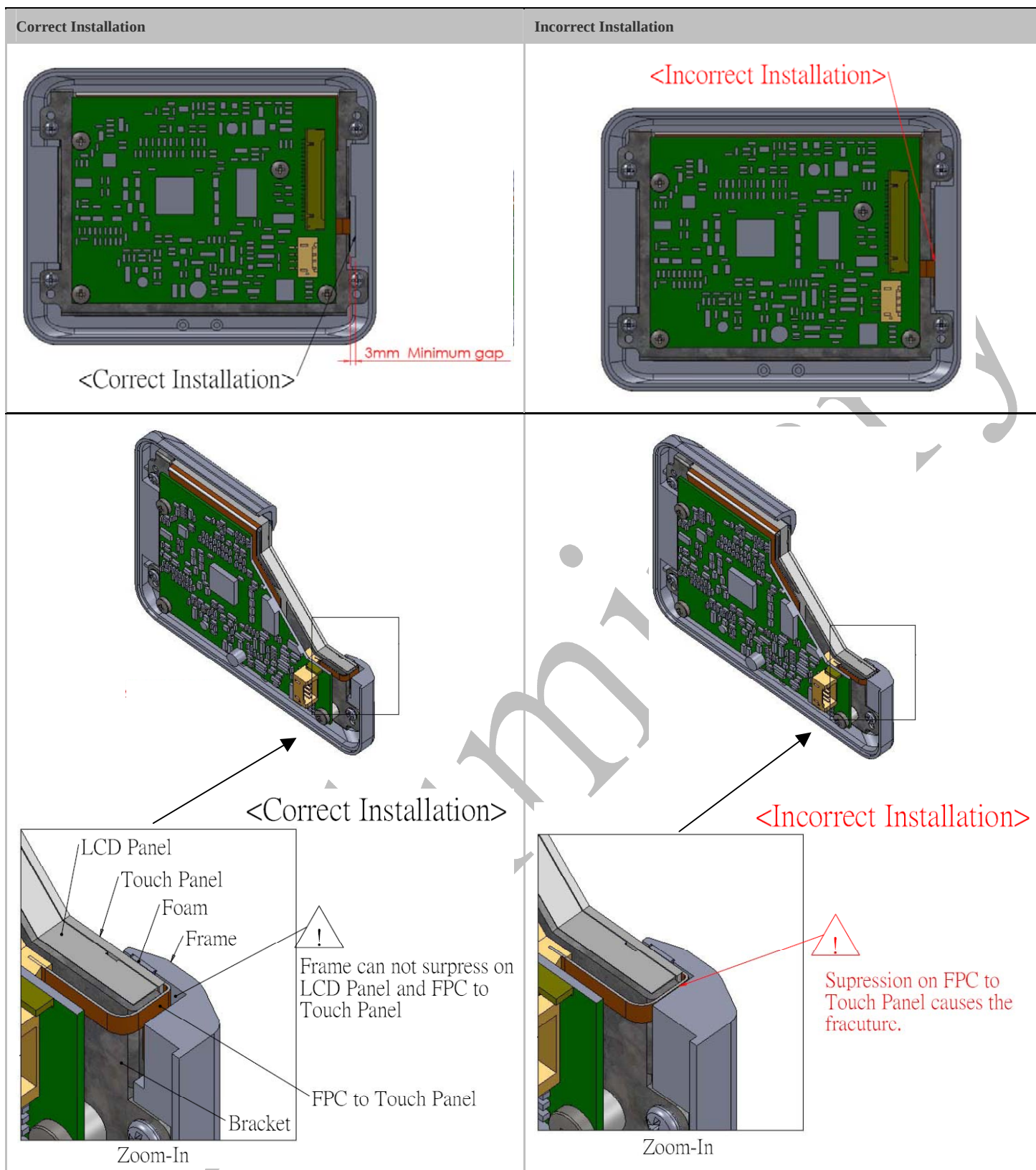
Use a buffer material (Gasket) between the touch-panel and front-case to protect damage and wrong operating.

Avoid the design that buffer material overlap and press on the inside of touch-panel viewing area.



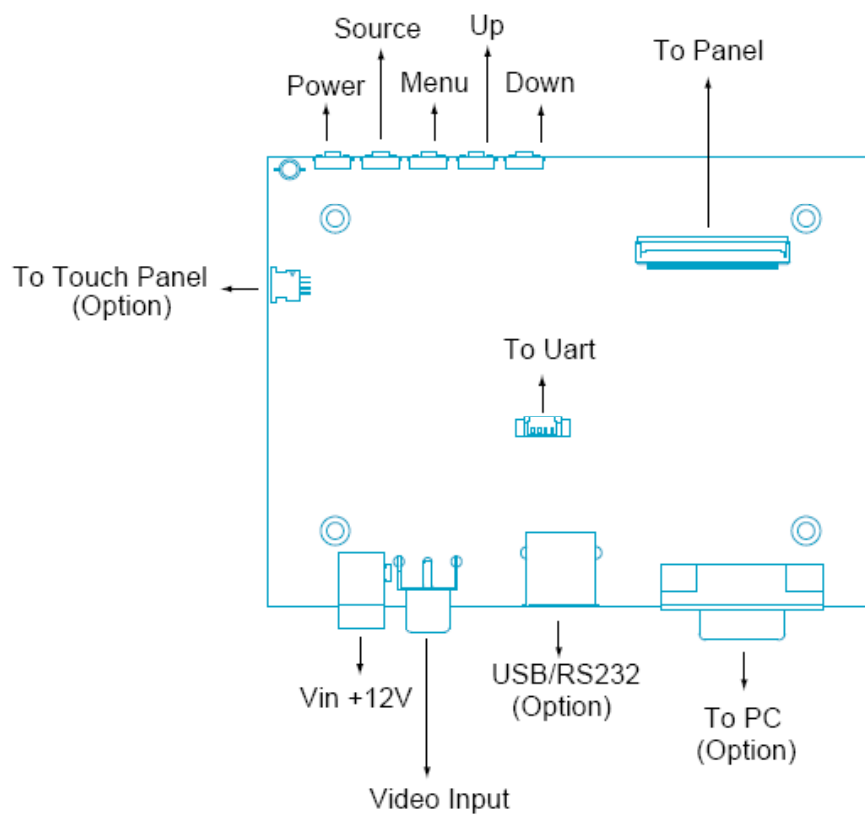
Note: We strongly suggest to follow above design guide to avoid the linear defect happened on the touch panel.

10.7 Mechanical Design Notice For Touch Panel



11.Operation manual

11.1 Driver Board Manual



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12. Packing List

Before you begin installing the KIT, please make sure that the following materials have been shipped:



A. LASTD12025-FDR



B. LAAC818000-FDR



C. LAVDO18000-FDR



D. LAVGA16000-FDR



E. LAUSB18000-FDR



F. LARS218000-FDR



G.

- A. AC to DC Adapter (100-240VAC 50-60Hz to +12VDC @ 2.5A)
- B. Power Cord (L:1800mm, Plug Type B for USA)
- C. Video Cable (L:1800mm)
- D. VGA Cable (L:1600mm)
- E. USB Cable (L:1800mm)
- F. RS-232 Cable (L:1800mm)
- G. Touch Screen Driver CD Disk / User Manual

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

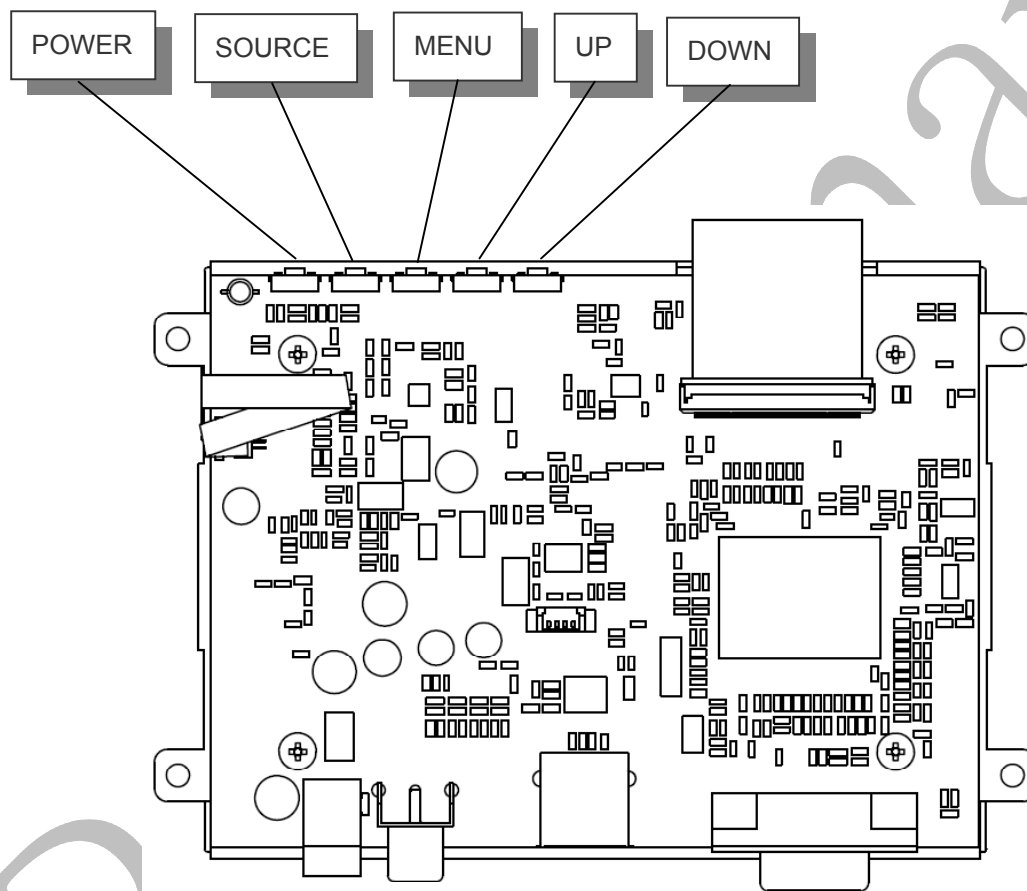
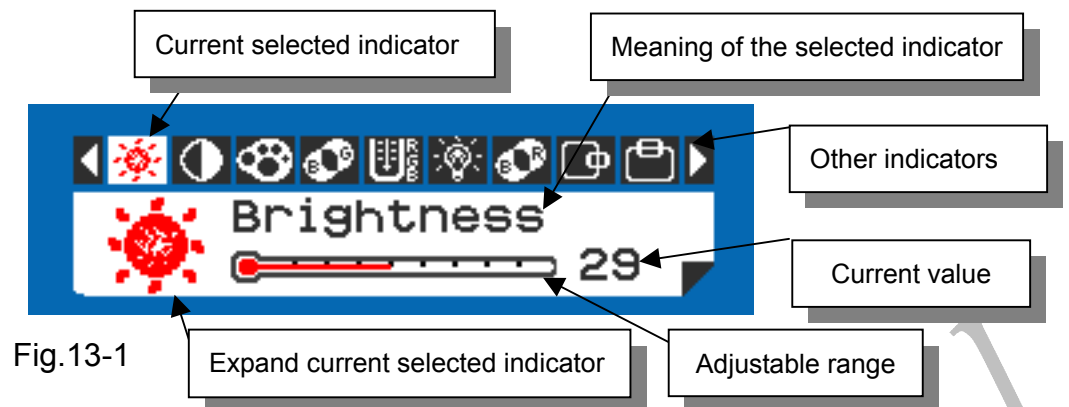
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13. Key Function by OSD

13.1 Menu Operation



Operations of key board :

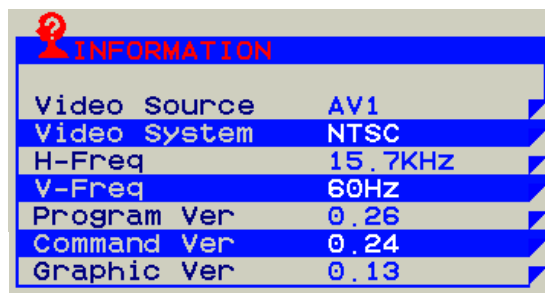
1. To navigate the menu, press [MENU]. (Fig.13-1)
2. The indicator lighting up in white color is the selected adjustment item.
3. To Next Item of the menu, press [MENU] again.
4. The operations below are only available when "Menu" is started.
5. Press [UP] / [DOWN] to adjust the value of the selected item.

Overview of the menu :

Firmware must be $\geq$ VER 0.26

Indicator	Meaning	Adjustable range	For	Remark
	Brightness	0 ~ 64	AV / VGA	Adjust-Bar
	Contrast	0 ~ 64	AV / VGA	Adjust-Bar
	Color	0 ~ 64	AV	Adjust-Bar
	Tint	0 ~ 32	AV	Adjust-Bar
	Sharpness	0 ~ 16	AV	Adjust-Bar
	Dimmer	0 ~ 9	AV / VGA	
	Color Tone	Normal / Warm / Cool	AV / VGA	
	Mirror	OFF / ON	AV / VGA	
	Flip	OFF / ON	AV / VGA	
	H-Position	-25 ~ +25	AV / VGA	Balance-Bar
	V-Position	-10 ~ +10	AV / VGA	Balance-Bar
	Auto		VGA	
	Scan	Over Scan / Under Scan	AV	
	Information		AV / VGA	Fig.13-2
	Setup		AV / VGA	Fig.13-3
	Factory Set		AV / VGA	
	Exit		AV / VGA	

Fig.13-2



Setup Menu :



Fig.13-3

Indicator	Meaning	Adjustable range	Function	Remark
	Show Status	ON / OFF	Show signal status.	ON: Show OFF: Hidden
	Blue Screen	ON / OFF	If loss signal will put on the blue or black screen.	ON: Blue OFF: Black
	Auto Power On	ON / OFF	Power input module will be auto turn on.	ON: Auto OFF: Manual
	Auto Saving	OFF / 3s / 5s / 15s / 30s	If signal lost over setting times will be power off.	ON: Auto OFF: Normal
	Detect Source	ON / OFF	Auto detection which source is existence and change.	ON: Auto OFF: Normal
	Return			

Note : VGA only type don't have Detect Source function.

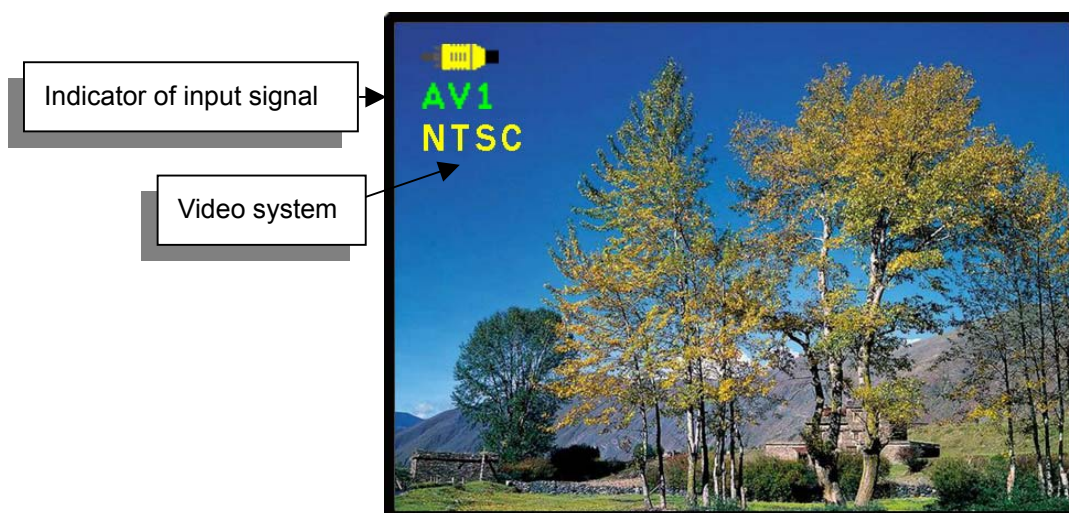


Fig.13-4

[Power] : Monitor power on / off

[Source] : Input signal switch

Overview of input signals :

Indicator	Input signal	Interface	Video system
	VGA	Analog RGB	640x480_60 / 800x600_60 / 1024x768_60