Next Vision Display
Brighten The Future

NEXT VISION DISPLAY

SPECIFICATION

CUSTOMER : _____

MODULE NO.: NT057-R001ME

Version	1
Engineer	
Date	2022/11/29

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Customer:
Approved by

NEXT VISION DISPLAY CO., LTD.

地址: 中國上海小木橋路600號
ADD: 600 XIAO MU QIAO ROAD, SHANGHAI, CHINA

WEB: www.nextvisiondisplay.com

TECHNICAL: technical@nextvisiondisplay.com
MARKETING: marketing@nextvisiondisplay.com
SALES: sales@nextvisiondisplay.com

Represented by:

first FC components
FIRST Components s.r.l.
www.first-components.com
sales@first-components.com
+39 0332 1888005

Records of Revision

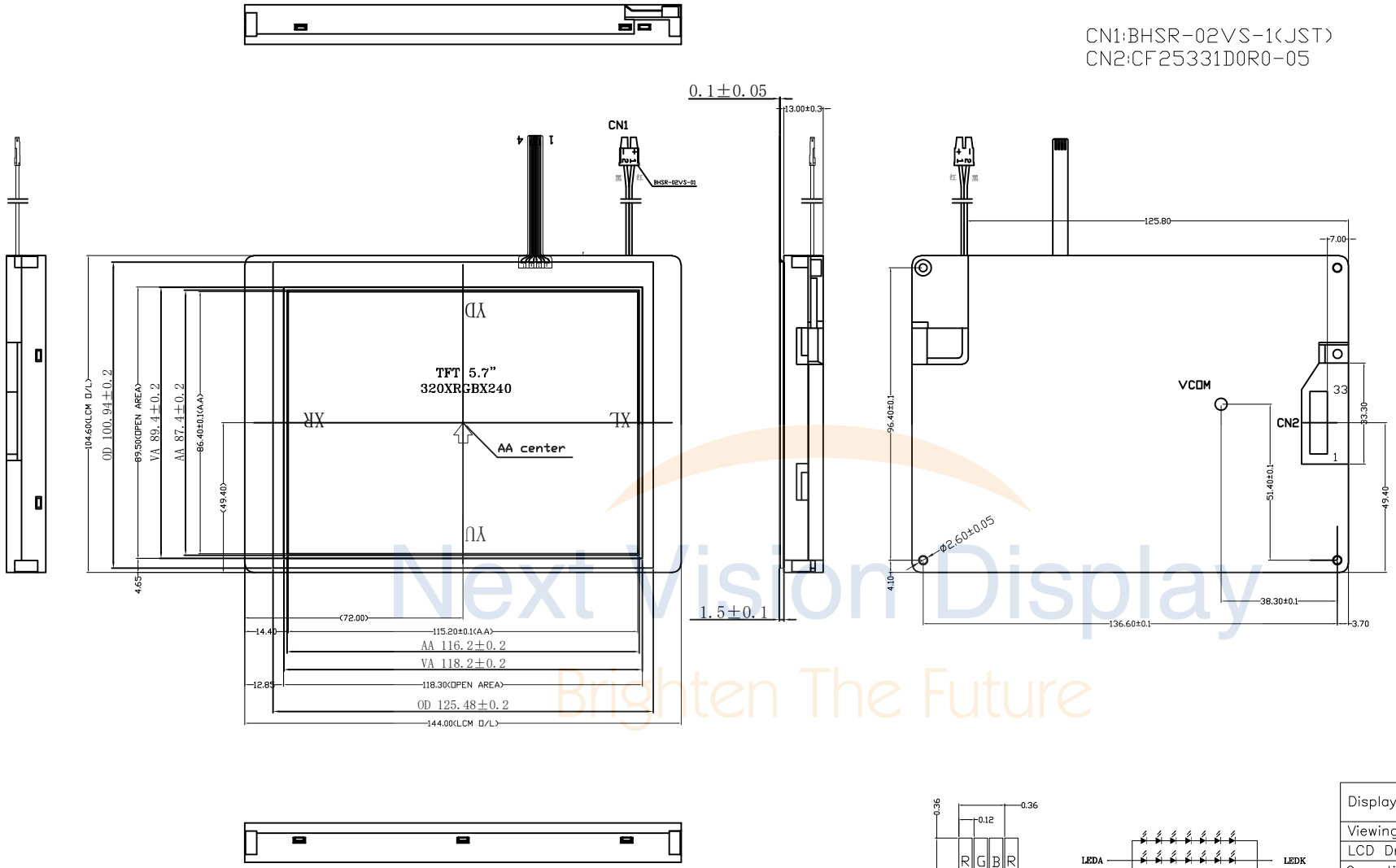
DATE	REF.PAGE PARAGRAPH DRAWING No.	REVISED No.	SUMMARY	REMARK
2022-11-22		V1.0	First Issue	

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General Specification

Item	Contents	Unit
LCD TYPE	TFT/TRANSMISSIVE	
MODULE SIZE (W*H*T)	144.00*104.6*15.2(TOTAL)	MM
ACTIVE SIZE (W*H)	115.20*86.40	MM
PIXEL PITCH (W*H)	0.12*0.36	MM
NUMBER OF DOTS	320*240	
DRIVER IC	HX8250-A01*2+HX8678A	
INTERFACE TYPE	18-BIT RGB	
TOP POLARIZER TYPE	Anti-GLARE	
RECOMMEND VIEWING DIRECTION	6	O'CLOCK
GRAY SCALE INVERSION DIRECTION	12	O'CLOCK
BACKLIGHT TYPE	21-DIES WHITE LED	
TOUCH PANEL TYPE	RESISTIVE	

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PIN DESCRIPTION

PIN NO	SYMBOL
1	VSS
2	CLK
3	IHS
4	IVS
5	VSS
6	R0
7	R1
8	R2
9	R3
10	R4
11	R5
12	VSS
13	G0
14	G1
15	G2
16	G3
17	G4
18	G5
19	VSS
20	B0
21	B1
22	B2
23	B3
24	B4
25	B5
26	VSS
27	DEN
28	VCC
29	VCC
30	R/L
31	U/D
32	NC
33	VSS

LED CIRCUIT DIAGRAM
19.6~24V@60mA

Display Type	TFT,TRANSMISSIVE NORMALLY,WHITE
Viewing Angle	6:00 CLOCK
LCD Driver IC	HX8218C04+HX8615C
Operating Voltage	VCC=3.3V
Operation Temperature	-20°C TO 70°C
Storage Temperature	-30°C TO 80°C
Interface	18-BIT RGB
Backlight	21-CHIP WHITE LED
Surface luminance	400MIN 450TYP 550MAX(cd/m²)
White X/Y	---

NOTES:
1. General Tolerance: ±0.3
2. ( )reference dimension.
3. Recommended Case Open Area Should Be Less Than Module V.A
4. recommended cushion adherent area:TP V.A+1.6mm
5. ROHS MUST BE COMPLIANT

VER.	SYMBOL	AMENDMENT	SIGN	DATE
V00	Next Vision Display	First issue		2020.09.03

DRAWN	
ME.CHECKED	
EE.CHECKED	
APPROVED	
CUSTOMER'S APPROVAL	NT057-R001ME

TITLE
MODULE SPEC.

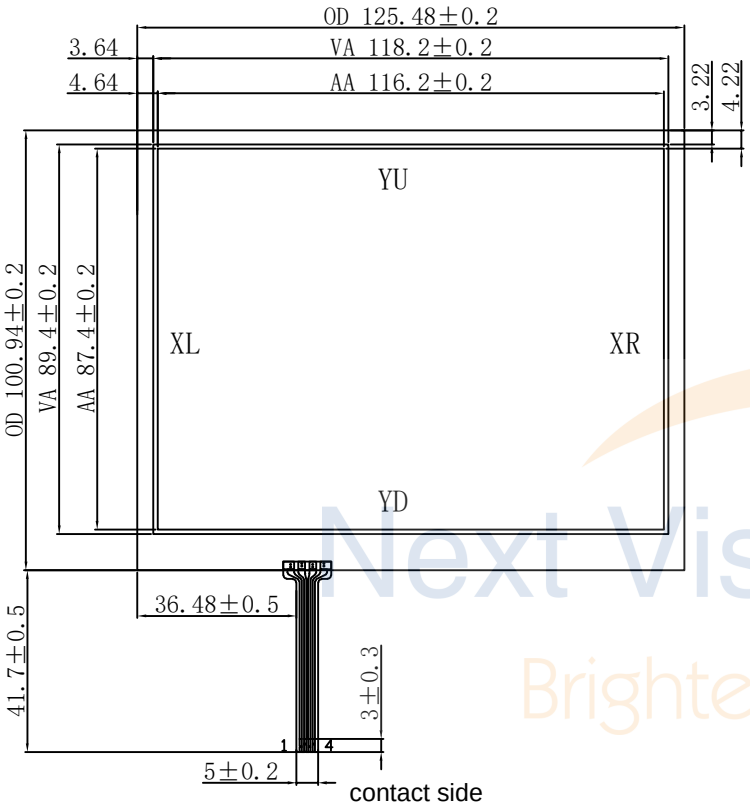
DRAWING NO.
NT057-R001ME

UNIT	mm	SCALE	FIT
3rd Angle		SHEET	1 OF 1

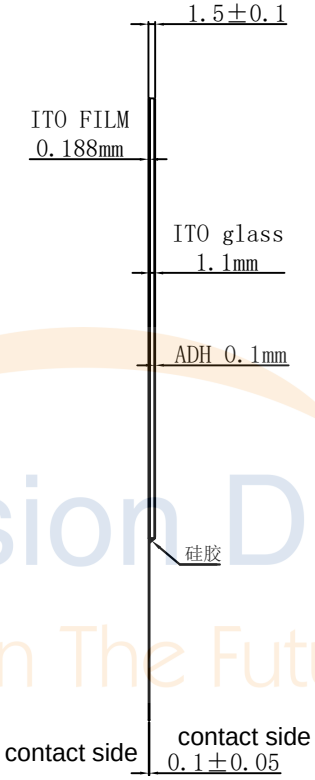
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Rev	Date	Content	Approved
A/0	2022-11-22	First release	DSX

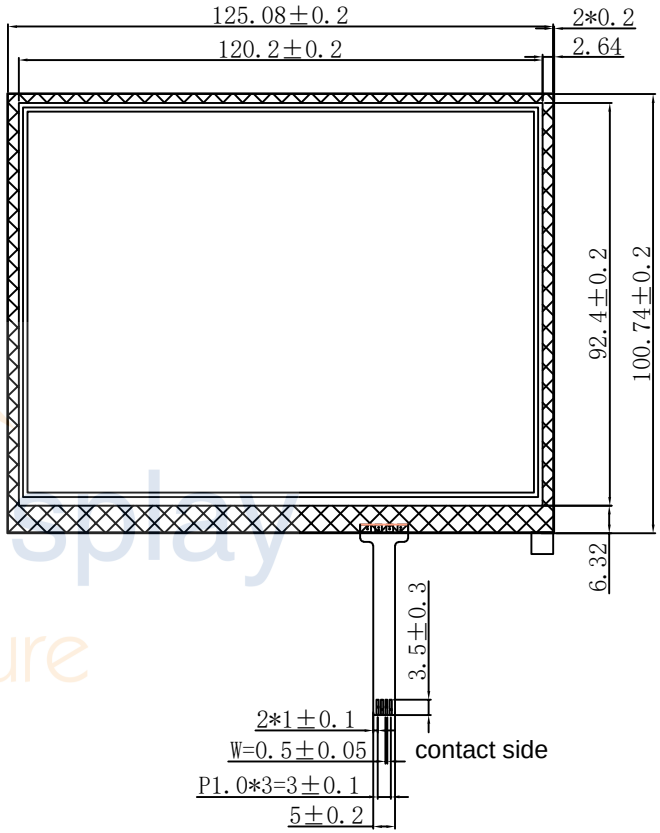
Front View



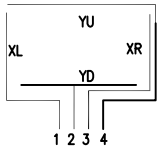
Side View



Back View



Interface



PIN	OUT
1	XL
2	YD
3	XR
4	YU

Main Parameters:

1.Structure:film+glass+tail
film： 0.188mm
glass：500Ω normal1.1mm
tail：FPC (pitch 1.0)
Total thickness: 1.5±0.1mm
2.Electrical Grade：DC5V 1mA
3.Insulation Impedance≥20MΩ(25V DC)
4.Linearity≤1.5%
5.Light Transmission≥76%
6.Actuation force:50-120g
7.Pen Hitting Durability≥1,000,000 times
8.Pen sliding Durability≥100,000 times：
9.Woking temp.:-20℃~+70℃,
10.Storage temp.:-40℃~+80℃,
11.Circuit Resistance:X:
200-900Ω Y:200-900Ω.
12.Response time≤15ms
13.Surface hardness≥3H(pencil)
14.unmarked tolerance±0.20

SCALE: 1 : 1 NOT TO SCALE		Next Vision Display Brighten The Future
PAGE: 1 OF 1		
GENERAL TOL. 0.20mm	UNITS MM	
APPROVALS	DATE	
APP: MYchan	2022-11-22	Product NO :
DWN: Amorll	2022-11-22	DATE: 2022-11-22

Interface Pin Function

Pin No.	Symbol	Description
1	VSS	Power ground.
2	CLK	Clock signal. Latching data at the rising edge.
3	IHS	Horizontal sync input in digital RGB and CCIR601 mode. (Short to GND if not used)
4	IVS	Vertical sync input in digital RGB and CCIR601 mode. (Short to GND if not used)
5	VSS	Power ground.
6~11	R0~R5	Red data input
12	VSS	Power ground.
13~18	G0~G5	Green data input.
19	VSS	Power ground.
20~25	B0~B5	Blue data input.
26	VSS	Power ground.
27	DEN	Input data enable control. When DE mode, active High to enable data input. Default pull low.
28	VCC	+3.3V Power supply.
29	VCC	+3.3V Power supply.
30	R/L	Right-and-left scan setting.(“L” :normally,“H”:Right and left reversal)
31	U/D	Up/down scan setting.(“L” :normally scan,“H”:Up-and-down reversal)
32	NC	No connection.
33	VSS	Power ground.

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Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit
Supply voltage for analog	VCC	-0.5	5.0	V
Supply voltage for logic	VCC	-0.5	5.0	V
Supply current (One LED)	I_{LED}		40	mA
Operating temperature	T_{OP}	-20	+70	□C
Storage temperature	T_{ST}	-30	+80	□C

Note: The absolute maximum rating values of this product are not allowed to be exceeded at any times. Should a module be used with any of the absolute maximum ratings exceeded, the characteristics of the module may not be recovered, or in an extreme case, the module may be permanently destroyed.

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