

 INNOLUX DISPLAY CORP.	工程變更客戶通知書 Engineering Change Notices to Customer	保管單位 Storage	AVQA/ CS
		保存年限 Retention Period	3 年

Subject of Change :

7SD NJ070NA-23A 設計變更
7SD NJ070NA-23A **design change**

客戶確認

For customers' acceptance

客戶名稱 Customer Name: 核准人 Approved by: 核准日期 Date: 	印章 Seal:
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變更主題

Subject of Change

7SD NJ070NA-23A 設計變更

7SD NJ070NA-23A design change

變更原因

Reason of Change

Novatek IC 2021/12 EOL, 無替代 IC 可切換,需換玻璃 & IC

Novatek IC 2021/12 EOL, no compatible IC,need change panel & drive IC

變更內容

Item	Detail	Before	After	Remark
1	Panel	Old (7041)	New (7005)	Panel 外形尺寸： 161.90mm*94.72mm→161.81mm*94.52mm Outline dimension: 161.90mm*94.72mm→161.81mm*94.52mm
2	背光膠框 Housing	In house	In house	由於 Panel 外形尺寸變更，玻璃擋牆相關尺寸隨之調整 Due to the outline dimension of the panel changed, the relevant dimension of the panel retaining wall was adjusted accordingly.
3	軟性電路板 Main FPC	弘信	景旺	1.由於 Panel 更換，FPCA Bonding 區寬度變更 2.輸入端 FPC 從單層變成兩層，為了滿足 LVDS 信號差分阻抗符合 LVDS 規格要求。 3. Main FPC layout 變更。 1.Due to the panel changed, the width of FPCA Bonding area changed. 2.Change main FPC to 2layers for keeping LVDS differential impedance. 3. Main FPC layout change.
4	鐵框 Bezel	In house	In house	由於 FPCA Bonding 區寬度變更，Bezel 相關尺寸變更 Due to the width of FPCA bonding area changed, the relevant dimension of bezel changed.
5	Drive IC	NOVATEK NT51008+ NT52003B	ILITEK ILI6150H2-9G+ILI51 20-9G	因 Novatek driver IC,更換為 Ilitek,搭配新玻璃。 Novatek Driver IC will EOL, change Driver IC to Ilitek for matching new cell.

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Item	Detail	Before	After	Remark
6	Bottom BEF	With	With out	因為 7005 panel 穿透高於 7041 panel，為降低亮度調整 film 材架構。 Because the penetration of 7005 panel is higher than 7041 panel, adjust the film material structure to reduce the brightness.
7	Bottom Diffuser	1PCS	2PCS	
8	異方性導電膠 ACF	Dexerials CP538SA	Dexerials PAF1000	Vendor Hitachi change name to Showa
		Hitachi AC-7813YM	Showa AC-7813YM	

Contents of Change

1、外觀差異 Look difference

■Yes □No

2、功能差異 Function difference

■Yes □No

輸入電源電壓有變,如下表.

Input power Voltages are changed as below table.

變更前/Before

Item	Symbol	Values			Unit	Remark
		Min.	Typ.	Max.		
Power voltage	DV _{DD}	3.0	3.3	3.6	V	Note 2
	AV _{DD}	10.8	11	11.2	V	
	V _{GH}	19.7	20	20.3	V	
	V _{GL}	-6.5	-6.8	-7.1	V	
Input signal voltage	V _{COM}	3.3	3.8	4.3	V	Note 4
Input logic high voltage	V _{IH}	0.7 DV _{DD}	0.9 DV _{DD}	DV _{DD}	V	Note 3
Input logic low voltage	V _{IL}	0	0.1 DV _{DD}	0.3 DV _{DD}	V	

變更后/After

5.ELECTRICAL SPECIFICATION

Item	Symbol	Specification			Unit	Note
		Min.	Typ.	Max.		
Digital power	VDD	2.8	3.3	3.5	V	(1)
Analog power	AVDD	11.9	12	12.1	V	(1)
TFT gate on voltage	VGH	14.5	15	15.5	V	(2)
TFT gate on voltage	VGL	-10.5	-10	-9.5	V	(3)
TFT common electrode voltage	Vcom(DC)	4.05	4.55	5.05	V	(4)

變更管理

Change Control

1、規劃時間 Planning Time: 2021 年 10 月

2、切換時間 Switching Time: 2022 年 2 月

3、產品包裝 Product Package

☒ The same box ☐ The different box

4、產品規格書 Product Spec

☐ No change ☒ Change