虛社客訴畫面異常抖動

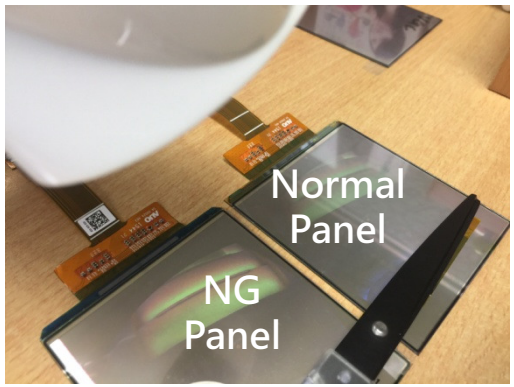
Chih-Hao Chen

2016.06.06

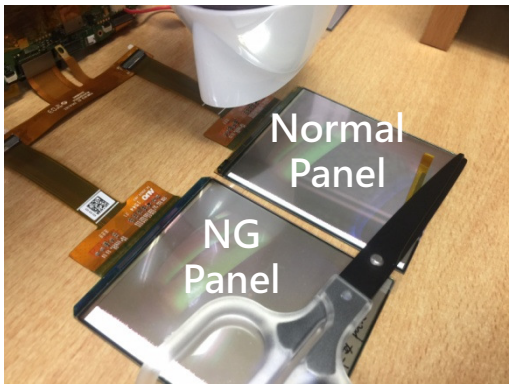
訊號阻抗過大

- 透過兩種方式可以現象，但原理相同，就是加大訊號的阻抗

1. 正常panel在
虛社平台加熱



加熱前



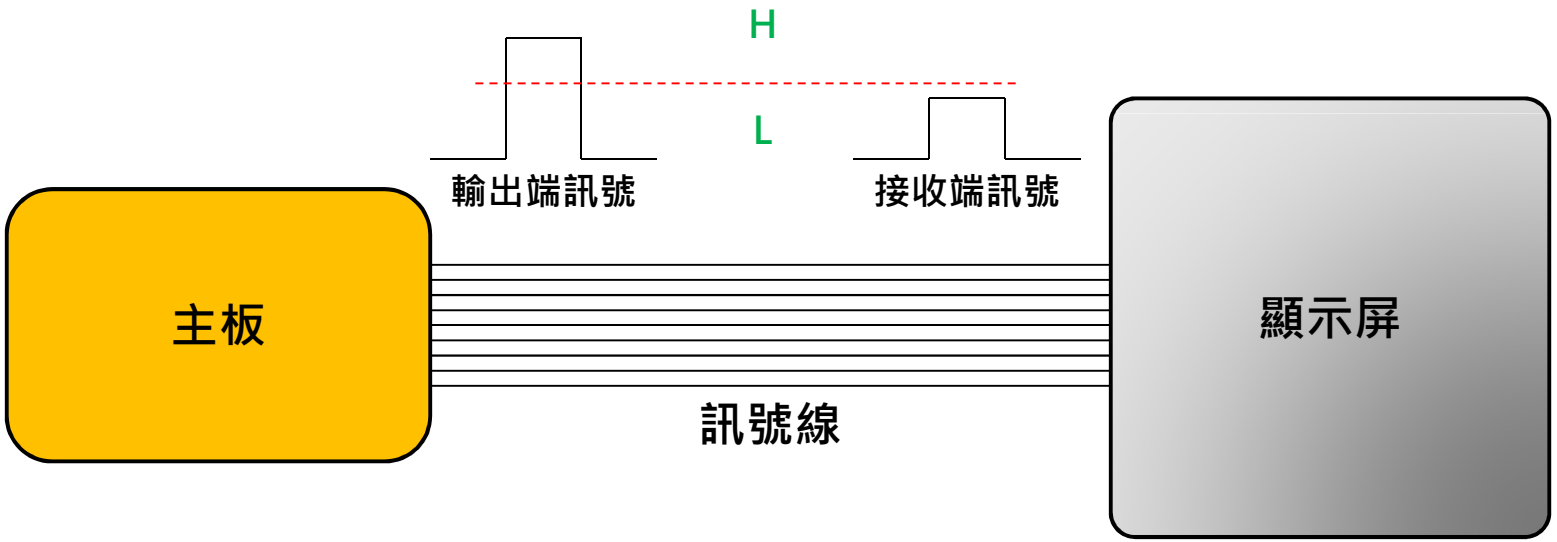
加熱後

2. AUO平台加長
訊號線

© 2016 AU Optronics Corporation – Proprietary and Confidential

Issue

- 如下圖，在主板到顯示屏的訊號線阻抗若是過高，訊號振幅會下降，顯示屏有機會解錯訊號，造成顯示雜訊的產生(畫面抖動現象)
- 懷疑是因為**訊號路徑因外力受損造成此現象**



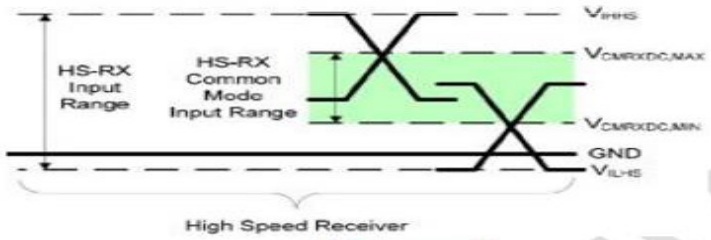
© 2016 AU Optronics Corporation – Proprietary and Confidential

Issue

- **NG panel在AUO系統上並不會有畫面異常的現象**，所以客戶的系平台打出來的
- MIPI訊號swing可能不滿足規格(如下圖，需大於70mV)，這部分也請客戶double-check，是否在接到
- panel FPC前的MIPI訊號swing就已經 < 70mV？

High-Speed Receiver Specification

DC Specifications



Parameter	Description	Min	Nom	Max	Units	Note
VCMRX(DC)	Common-mode voltage HS receive mode	70		330	mV	1,2
VIDTH	Differential input high threshold			70	mV	
VIDTL	Differential input low threshold	-70			mV	
VIHHS	Single-ended input high voltage			460	mV	1
VILHS	Single-ended input low voltage	-40			mV	1
ZID	Differential input impedance	80	100	125	Ω	

Notes:
1. Excluding possible additional RF interference of 100mV peak sine wave beyond 450MHz.
2. This table value includes a ground difference of 50mV between the transmitter and the receiver, the static common-mode level tolerance and variations below 450MHz

© 2016 AU Optronics Corporation – Proprietary and Confidential

AUO
Innovating Life