

DANAI

LCD View Angle Change Report

AGENDA

- Internal Issue description
- Root cause analysis
- Improve actions
- Component change list
- Suggestions for F4L & LE & FFW

INTERNAL ISSUE DESCRIPTION

- TCL internal Test reported some special angle displayed show white screen causing end user poor experience.

ROOT CAUSE ANALYZE

- After reviewing LCD Polarizer spec, we found current LCD polarizer used for DANAI is Conventional LCD. Detail view angle degree listed as below:

View angle (Degree)	L/R/U/D: 40/40/60/20
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IMPROVE ACTION TO IMPROVE CUSTOMER EXPERIENCE

- Change LCD Polarizer to add wide view angle (WV Film) “L/R/U/D: 65/65/60/50”.

Current DANAI with viewing angle:

View angle (Degree)	L/R/U/D: 40/40/60/20
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Added WV Film (Enhanced Viewing Angle)

View angle (Degree)	L/R/U/D: 65/65/60/50
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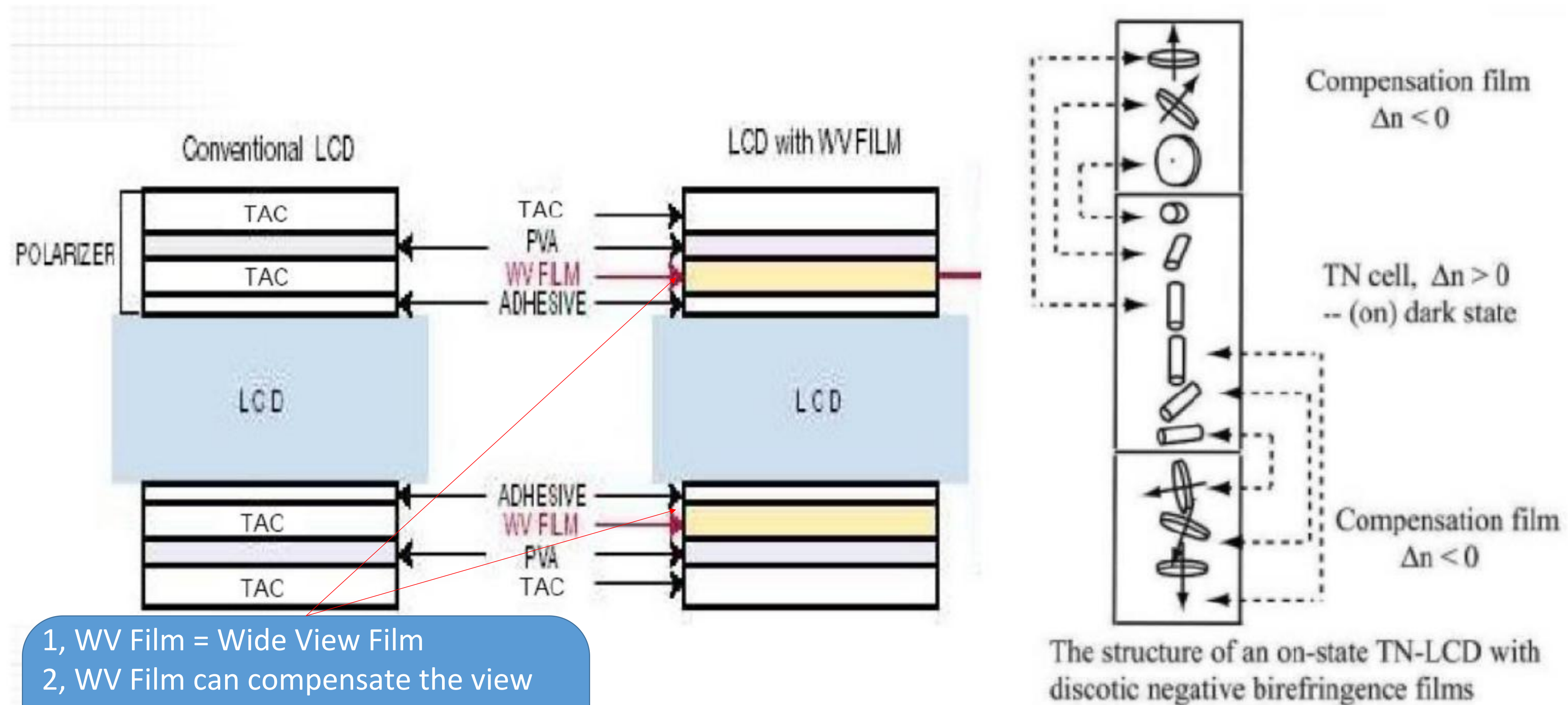
L: Left
R: Right
U: Up
D: Down

COMPONENT CHANGE - OVERVIEW

Item	Component	Comments
1	LCD Polarizer (WV Film)	Change viewing angle to wide view angle, thickness increase by 0.15mm

COMPONENT CHANGE – ADDED WV FILM

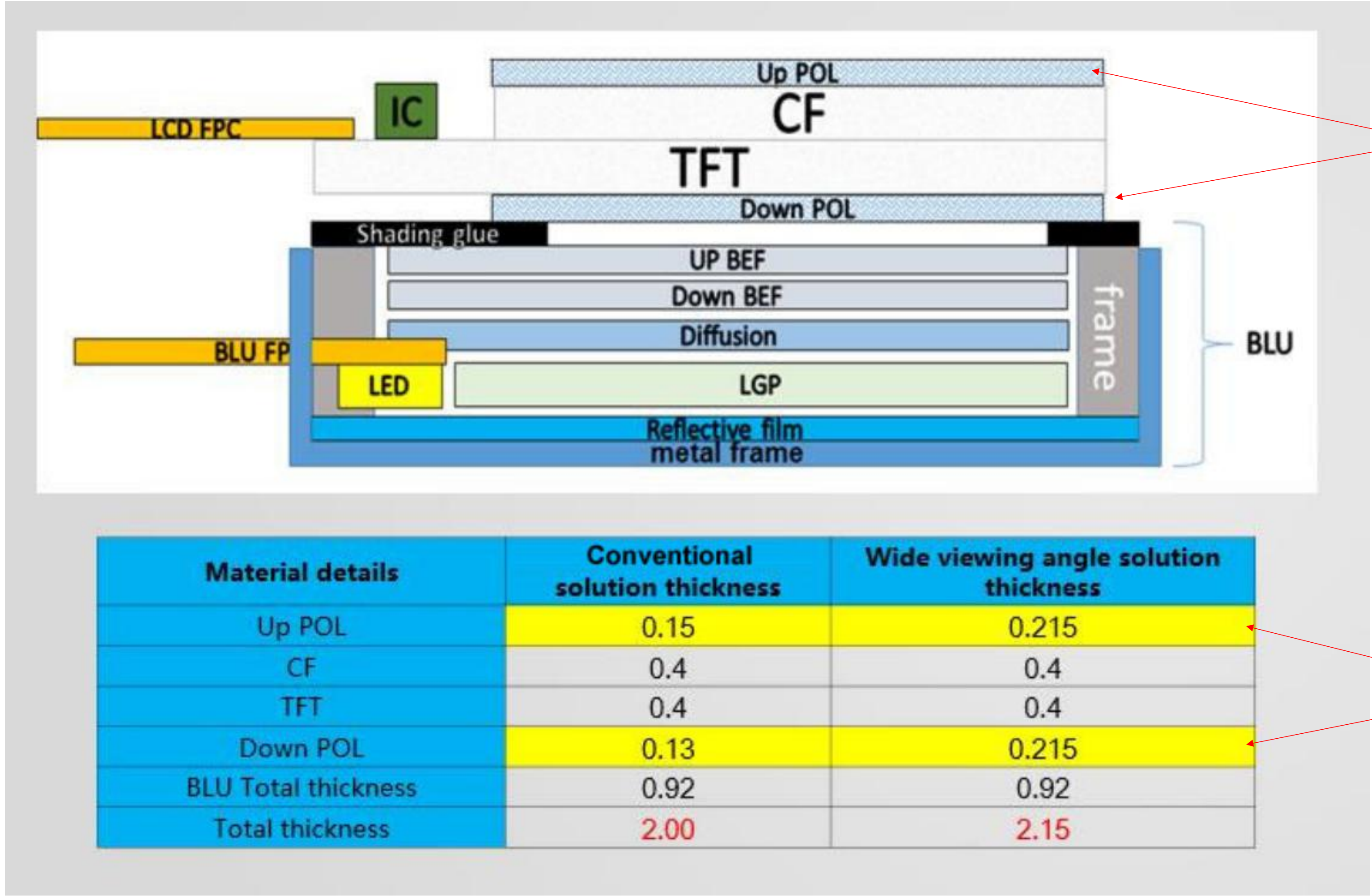
TAC: Triacety Cellulose
PVA: Polyvinyl Alcohol



1, WV Film = Wide View Film
2, WV Film can compensate the view angle via complicated algorithm by making view angle wide, which can make us catch sight of same shape/object via different angle.

COMPONENT CHANGE LIST – ADDED WV FILM

BLU: Backlight Unit
BEF: Brightness Enhancement film
LGP: Light Guide Plate



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HW change list – Aluminum alloy

- Aluminum alloy on front casing increase 0.15mm in green parts.

