

Oral Presentation

[LCT5/FMC5]High Performance 8K LCDs

Chair: Koichi Miyachi (JSR)

Co-Chair: Toshimitsu Tsuzuki (NHK)

Fri. Nov 29, 2019 9:00 AM - 10:35 AM Mid-sized Hall A (1F)

9:25 AM - 9:50 AM

[LCT5/FMC5-2(Invited)]Novel Pixel Structure for the Improving Optical Performances of 8K LCD Panel

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Keywords:QUHD, 8K, LCD panel, High transmittance, suppressed gamma distortion

We report on novel pixel architecture for improving the transmittance and reducing the gamma distortion to minimize the color shift in a 8K QUHD LCD panel with the hG-2D technology. This technology has the excellent transmittance by matching the LC distortions on the vertical electrode and two data lines which is asymmetrically positioned. Besides, by shielding the LC distortion line at the oblique viewing angle, the gamma distortion can be effectively suppressed. Through the QUHD panel with our structure, superior performances to normal LCD could be clearly demonstrated.