

Poster Presentation

[LCTp4]High Image Quality

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[LCTp4-1]Research on Liquid Crystal Efficiency and Viewing Angle Performance of Pixel Boundary in LCD Display

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Keywords:Pixel per Inch, Pixel Boundary, LC Efficiency, Voltage-Transmittance Curve

Impacts of pixel size on liquid crystal efficiency and voltage-transmittance curve at pixel boundary area are fully investigated by 3D simulation and observation. It is found that smaller pixel or domain size will suffer from efficiency or Tr% loss slightly (e.g. about 7% from 75UD to 55UD).