Oral Presentation

## [PRJ3]Image Quality and Display Devices

Special Topics of Interest on AR/VR and Hyper Reality Chair: Andrés Vásquez Quintero (University of Ghent)

Co-Chair: Tetsuji Suzuki (JVC KENWOOD)

Thu. Nov 28, 2019 5:20 PM - 6:40 PM Room 108 (1F)

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\*Huang-Ming Philip Chen<sup>1</sup>, Jhou-Pu Yang<sup>1</sup>, Yao-Chung Chang<sup>1</sup> (1. National Chiao Tung University (Taiwan)) Keywords:Liquid crystal on silicon, spatial light modulator, holography, virtual and augmented reality display

A 0.7-inch, 4K2K LCoS-SLM with full  $2\pi$  radians phase modulation to cover depth-focus image was developed. The full phase modulation was found 0.9 and 1.5 ms under the digital driving scheme with  $DV = 1.75 \ V$  at  $T=45 \ ^{\circ}C$ . A 200 mm depth of 3D reconstruction holographic image was demonstrated.