

Oral Presentation

[DES1]8K Systems

Chair: Ryutaro Oke (Panasonic Liquid Crystal Display)

Co-Chair: Hyun-Wook Lim (SAMSUNG ELECTRONICS)

Wed. Nov 27, 2019 1:40 PM - 3:00 PM Room 207 (2F)

1:45 PM - 2:10 PM

[DES1-1(Invited)]Development of 8K-UHD 3D Display for Advanced Digital Surgical Imaging

*Hiromasa Yamashita¹, Junichi Maruyama¹, Ryutaro Oke², Kenkichi Tanioka¹, Toshio Chiba¹ (1. Kairos Co., Ltd. (Japan), 2. Panasonic Liquid Crystal Display Co., Ltd. (Japan))

Keywords: 8K ultra-high definition (UHD), rigid endoscope, microscope, eye surgery

We have developed a prototype of 55-inch 8K ultra-high definition (UHD) three-dimensional (3D) display using a polarization filter for advanced digital surgical imaging with the new camera system with 8K-UHD resolution (7680 x 4320 pixels), which is 16 times as much as that of high-definition (HD; 1920 x 1080 pixels).