

iMID 2018

August 28 - 31, 2018 / BEXCO, Busan, Korea



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Exhibitor Introduction	<p>Fraunhofer FEP is a leading R&D institute in the fields of organic electronics for wearables, HMDs or AR applications. We are developing innovative solutions for OLED microdisplays and sensors like ultralow-power or bi-directional microdisplays. Our offer ranges from feasibility studies, customer specific CMOS-design, system integration up to pilot production and technology transfer/licensing.</p>		
Exhibit Description	<p>LOMID - Large area OLED microdisplays These displays provide outstanding picture quality, achieve a resolution of extended full HD (1920 x 1200 pixels) and pave the way for VR glasses in a compact format. Diagonal screen size is about 1" and frame rate around 120 fps. A special system concept and modern design methodology help to reduce power consumption. This OLED microdisplay was developed in the LOMID project (grant agreement no. 644101).</p> <p>Ultra-low power OLED microdisplay This novel microdisplay has an extremely low power consumption and simplified driving electronics. Basic idea for the reduction of the power consumption is the minimization of the necessary data transfer and the elimination of the normally needed refreshing cycles within the display. Compared to microdisplays for video applications the typical power consumption of 200 mW could be reduced to 2 – 3 mW.</p> <p>Image sensor based on organic photodiodes on silicon for detection in NIR range The organic photodiode array is with SVGA-resolution (800 x 600 pixels). The image sensor is fabricated completely at wafer-level and therefore already under near-production conditions. With its extended region of sensitivity, the imager can be employed over the entire bandwidth of conventional applications in industry, automotive and medicine.</p>		

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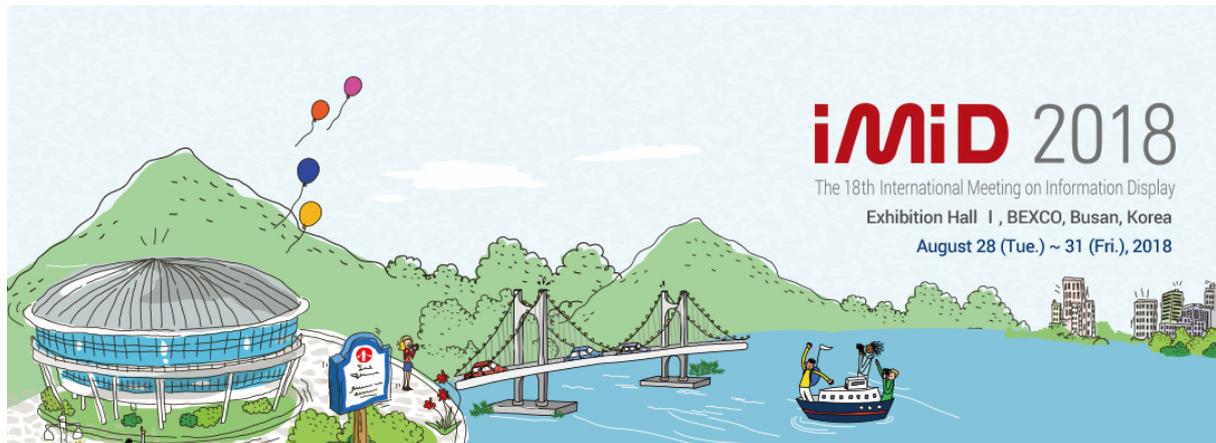


Exhibit Product

Fingerprint sensor based on OLED microdisplay (resolution: 800 x 600 pixels)
Large area OLED microdisplay (resolution: 1920 x 1200 pixels)
Ultra-low power OLED microdisplay (resolution: 304 x 256 pixels)
Image sensor based on organic photodiodes on silicon
Flexible OLED on plastic web
Flexible OLED processed in roll-to-roll technology
Ultra-high permeation barrier film
Ultra thin glass "G-Leaf" (thickness 100 μm)