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Exhibitor Introduction	The Korea Photonics Technology Institute (KOPTI) was established in 2001 by the Ministry of Trade, Industry and Energy. As a leading research institute specializing in optics and photonics, KOPTI has been designated as a new growth driver in South Korea. The institute supports the industry through technology development, production support, and the establishment of industrial foundations for new markets. KOPTI is at the forefront of research in various fields of the optics&photonics industry, including LED, optical communication, laser, and display technologies. By pioneering innovative research and fostering industrial collaboration, KOPTI is positioning itself as a central hub for future-oriented optical&photonics technologies.	
Exhibit Description	PDIC, PKG • Active drive micro-driver IC • RGB data time-division switching • Type1 : Constant Current Driving, 8 bit Resolution, 400x800um • Type2 : Constant Current Driving, 8 bit Resolution, 300x520um • PDIC + RGB LED Integrated smart pixel • PKG size : 1212 • Application Fields: Signage, Transparent Displays Micro-LED Display External Compensation Circuit	

	• External compensation verification technology for OTFT backplane • Improvement of image quality uniformity utilizing compensation of the backplane's driving Tr in active drive LED displays • Application Fields: LED Displays, Signage Interactive • Implementation of display communication based on CMOS sensors • Application Fields: Display Communication LED Stacked Structure • High-quality epi wafer manufacturing technology for RGB stacked structure micro-LEDs • Development of light source manufacturing technology for ultra-fine stacked structure RGB pixels with 360 PPI for sizes above 1 inch • Development of package manufacturing technology for achieving display pixel densities of 360 PPI or more • ALD passivation deposition technology • Application Fields: Micro-LED Displays, Smartwatches, Augmented Reality (AR), Mixed Reality (MR), Virtual Reality (VR), Holograms CMOS • Sample of bonded phosphide red micro-LED display and CMOS • Application Fields: Smartwatches, Augmented Reality (AR), Mixed Reality (MR), Virtual Reality (VR) Transfer COC • Micro-LED 1st and 2nd transfer materials and process technology • Flexible transfer material technology for 4-inch grade • COC manufacturing technology for 100 PPI using 600μm² RGB micro-LED chips • Application Fields: Micro-LED Displays, Smartwatches, Augmented Reality (AR), Mixed Reality (MR), Virtual Reality (VR)
Exhibit Product	Smart pixel, Multi array AM module, Smart pixel 30x30 array AM system, ToF sensor module, Display communication based on CMOS Sensor, Vertically stacked RGB epi·chip, Phosphor for microLED, etc..