


iMiD 2023

August 22-25, 2023 / BEXCO, BUSAN, KOREA



Company Name	Advanced Display Research Center (ADRC)	Company Logo 
Address	No. 129, Pureunsol Bld., Kyung Hee University	
President	Dr. Jin Jang	
Website	http://www.adrc2000.com/	
E-mail	jslee@adrc2000.com	
Telephone	+82-10-3935-2283	
Fax	+82-2-961-9154	
Exhibitor Introduction	<p>Advanced Display Research Center (ADRC) has been established to support the production of prototypes for small displays, the performance evaluation of parts and materials for displays, and the training of research personnel.</p> <p>Capability</p> <ol style="list-style-type: none">Thin-film Transistor<ul style="list-style-type: none">Structure: Etch-stopper, BCE, Coplanar, CorbinoActive channel: a-Si, LTPS, OxideThin-film deposition<ul style="list-style-type: none">PECVD (SiO_2, SiN_x, a-Si:H)DC sputter (Mo, Cu, Al, a-IGZO, a-IGTO, a-IGO)Spray coater (ZrAlOx, IGO, ZnO etc.,) n-coating, Spray pyrolysisResolution<ul style="list-style-type: none">Photo-lithography	

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	<p>Metal: Min. 2 um width Via: Min. 3 um hole</p> <ul style="list-style-type: none">• Circuit: ~ 1,000 stage (in current status)• Display: 1,000 ppi (in current status) <p>Display Size: Max. 4.5-inch/glass</p> <p>4. Driving specification</p> <ul style="list-style-type: none">• Maximum Resolution : FHD• Frame rate : ~60Hz• Video input : RGB, HDMI• Source Driver <p>Channel : 726, 1368 Resolution : 8bit Gamma Voltage : 0 ~ 18V Interface : mini-LVDS PKG : COF Cascading : Possible</p> <p>Gate Driver Channel : 256 Output Voltage : ±20V PKG : COF Cascading : Possible</p>
Exhibit Description	Oxide and LTPS Backplanes AMOLED/Micro-LED using LTPS, oxide and LTPO TFTs
Exhibit Product	Active-Matrix Panels (AM Panels); Flexible, Transparent display. μ-LED on TFT backplane, and so on.