



# iMiD 2024

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Exhibitor Introduction	<p>ELP has secured the core technology required in the field of display driving inspection technology required for Mobile &amp; AR &amp; VR &amp; TV &amp; Watch display R&amp;D and production sites and vision inspection equipment for defect inspection of display products.</p> <p>Since 2019, we have been conducting advance development of OLEDoS &amp; LEDoS display process equipment and inspection equipment to which micro LED/ Ink-jet processes are applied.</p> <p>ELP is always thinking about continuous improvement and challenges, and is developing customer-oriented products.</p> <p>For more information please visit ELP homepage (<a href="http://www.elp.co.kr">www.elp.co.kr</a>)</p>	
Exhibit Description	Display R&D and production sites and vision inspection equipment for defect inspection of display products	
Exhibit Product	<p><b>Display Pattern Generator</b></p> <ul style="list-style-type: none"><li>• Equipment used for electric power and signals to panels. It can perform Aging/Open short test, transmitting and pattern changes.</li><li>• Securing PM/AM driving equipment / Micro LED PAM &amp; PWM driving / BP defect test / Optic a correction function</li></ul> 	

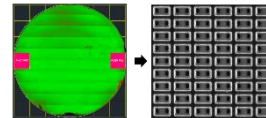
## Back plane inspection equipment & Dielectrophoresis



- Mother Glass Back plane inspection
- micro/nano LED dielectrophoresis process equipment & inspection
- Signal function Output and Measure system
- Generates Sine / Square / Pulse / Ramp Waveform Signals

## Micro LED AOI defect inspection technology

- This equipment is developed to examine defects caused by particles, pin holes, chips, etc. during the panel manufacturing process using Vision



## Micro LED EL.PL inspection technology

- Inspections of Micro LED Missing / Dispositioning / Tilting / Flipping / Bridging / Cracking and Particles
- Pattern generator / AOI(Auto Optical inspection) / EL / PL / Color correction / Gamma / Mura



## OLED Display Full Auto Aging System

- Integrate full auto equipment supports panel loading, aligning, aging, classifying and sorting.
- Pattern generator / AOI(Auto Optical inspection) / Gamma correction / Demura / Reliability Test System / Inkjet Test System / optical correction



## Semiconductor Package Test System



- Inspection of PCB substrates circuit( open/short) before die attach.
- Fine PCB (Printed Circuit Board) Electric Tester
- Open, 4-Wire Open, u-Short, Short(Leak), Spark

## AI Solution

- Development of AI (Artificial Intelligence) application algorithms such as classification/object detection/segmentation.
- Deep learning model training & testing /Image preprocessing / Class labeling / Data augmentation / Classification / Object detection /Display mura detection / OCR (Optical Character Recognition) / LED Chip Count / Defect quantification / Anbormality detection

