

iMiD 2023

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




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Exhibitor Introduction	<ul style="list-style-type: none">- Development of RGB direct patterning technology for Micro OLED Display- 3,000ppi RGB Micro OLED Panel demonstrated (Nov. 2022)- 4,000ppi RGB Micro OLED Panel to be developed- Installed ultra-high-precision align system for OLED evaporation- Development of Ultra-high resolution of FMM (fine metal mask) using laser patterning technology.	
Exhibit Description	World first 3,000ppi RGB direct patterning Micro OLED (OLEDoS) Display using fine metal mask	

Exhibit Product

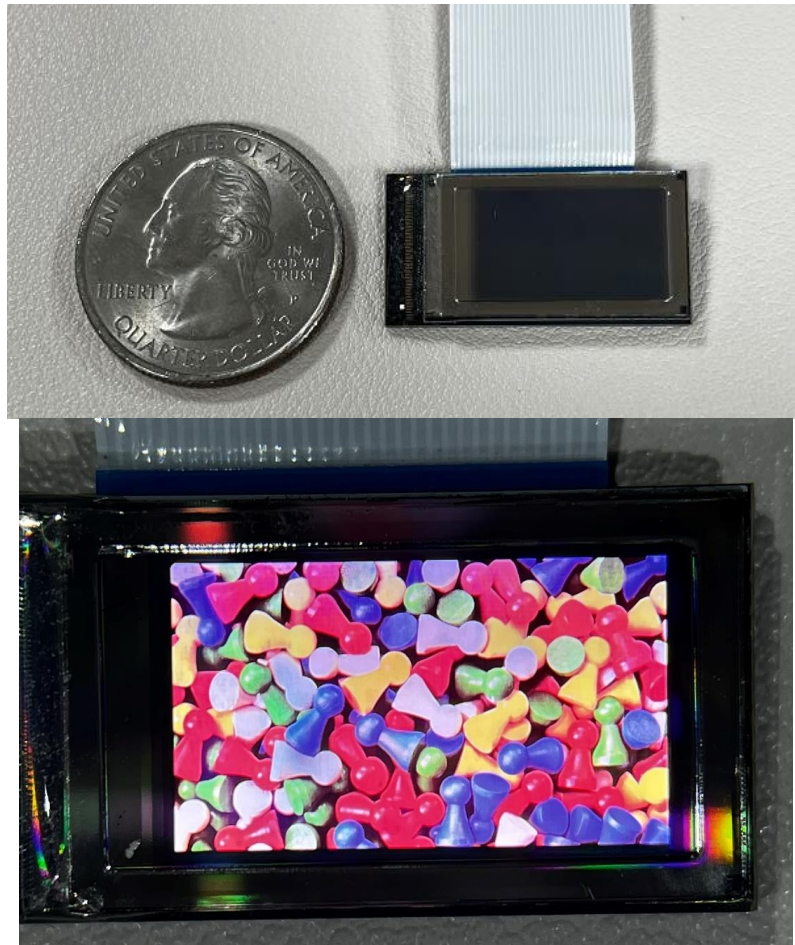


Figure1. 3,000ppi Micro OLED Display

Specification	
Display Size	0.7inch
Resolution	1,920 x 1,080 (Full-HD)
Pixel Density(ppi)	3,000
Pixel Pitch(μm)	8.1
Color	RGB Direct pattern (w/o Color filter)
Max Luminescence	10,000nit

Table 1. Detail specification of Micro OLED Display

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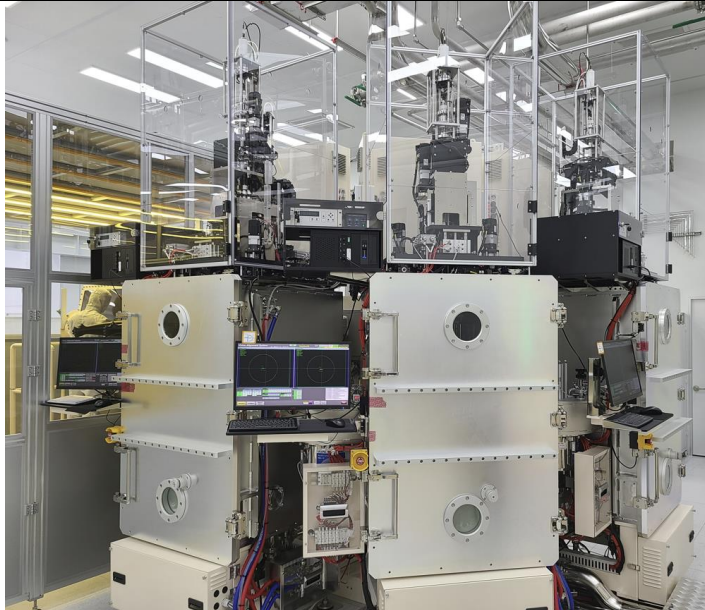


Figure2. Micro OLED Display organic evaporator

unit : um	OC1			OC2			OC3		
	Align	Contact	Inspec.	Align	Contact	Inspec.	Align	Contact	Inspec.
1	0.2	0.3	0.3	0.3	0.1	0.2	0.2	0.2	0.2
2	0.2	0.1	0.1	0.2	0.2	0.3	0.2	0.3	0.5
3	0.1	0.2	0.5	0.1	0.2	0.3	0.1	0.2	0.5
4	0.3	0.1	0.3	0.2	0.2	0.4	0.2	0.2	0.4
5	0.2	0.1	0.4	0.3	0.2	0.2	0.2	0.2	0.2
6	0.3	0.2	0.3	0.3	0.1	0.2	0.1	0.2	0.1
7	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.1	0.1
8	0.2	0.2	0.2	0.1	0.2	0.5	0.3	0.3	0.3
9	0	0.2	0.2	0.3	0.2	0.5	0.3	0.3	0.3
10	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.3	0.3

Table 2. Organic Chamber Align Accuracy

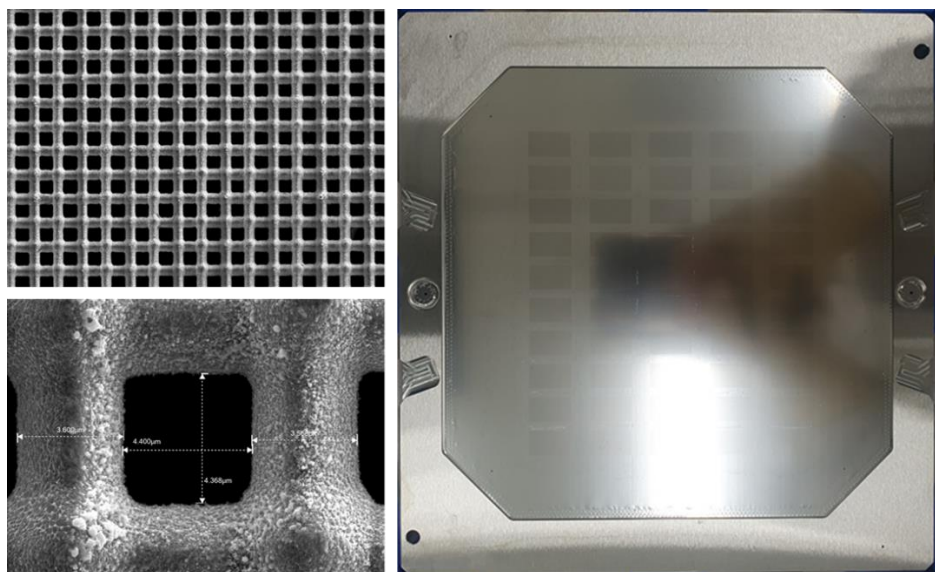


Figure3. Micro OLED Display 3,000ppi FMM Mask