

Global Micro LED Market: Key Research Findings 2017

◆ Research Outline

Yano Research Institute has conducted a study on the global micro LED market with the following conditions:

1. Research period: April to July, 2017
2. Research target: Makers of displays, components, and products, and universities and R&D institutions studying micro LEDs
3. Research methodologies: Face-to-face interviews by the specialized researchers, and literature research

<What is the Micro LED Market?>

Micro LEDs in this research indicate those miniature LEDs with 100 μ m or less which can be embedded in displays, vehicle head lamps, biomedical equipment, Li-Fi communications, smart fabrics and etc. The micro LED market size in this research was calculated based on the estimated costs of micro LED light source and of fixing processes.

◆ Key Findings

■ Global Micro LED Market in 2017 Projected to Attain US\$ 7 Million

The global micro LED market size in 2017 is likely to attain US\$ 7 million. The market has been formed in 2017, though partly, as Sony has started selling high-resolution display systems using micro LED.

■ Micro LEDs Expected to at First be Applied to Those Displays Difficult to Produce with Conventional Technologies

Sony has succeeded in merchandising micro LED displays, but, in recent years, other large companies including Apple and Foxconn are also trying to enter the micro LED market. However, manufacturing technologies and equipment of micro LEDs are not yet satisfactorily developed for mass producing displays, with many problems and issues of productivity, yield rate, costs, and supply chains are left unsolved. Therefore, micro LEDs are, for the time being, primarily introduced to display applications that are difficult for conventional manufacturing technologies to handle and that can keep cost efficiency at the same level as the conventional technologies, while bringing about the superior characteristics of micro LED.

■ Global Micro LED Market Projected to Leap Forward to US\$ 4,583 Million

Micro LEDs are likely to be adopted mainly for displays at first in 2017 and beyond, and then gradually for vehicle head lamps, Li-Fi communications, smart fabrics, biomedical equipment, and etc., by 2020. However, there still are challenges to be solved, including, manufacturing technologies, cost, and safety, so that the ratio of these applications to occupy the market can be quite limited. On the other hand, the adoption of micro LEDs in displays are expected to expand, which leads the global micro LED market to attain US\$ 224 million by 2020, and US\$ 4,583 million by 2025.

◆ **Report Format:**

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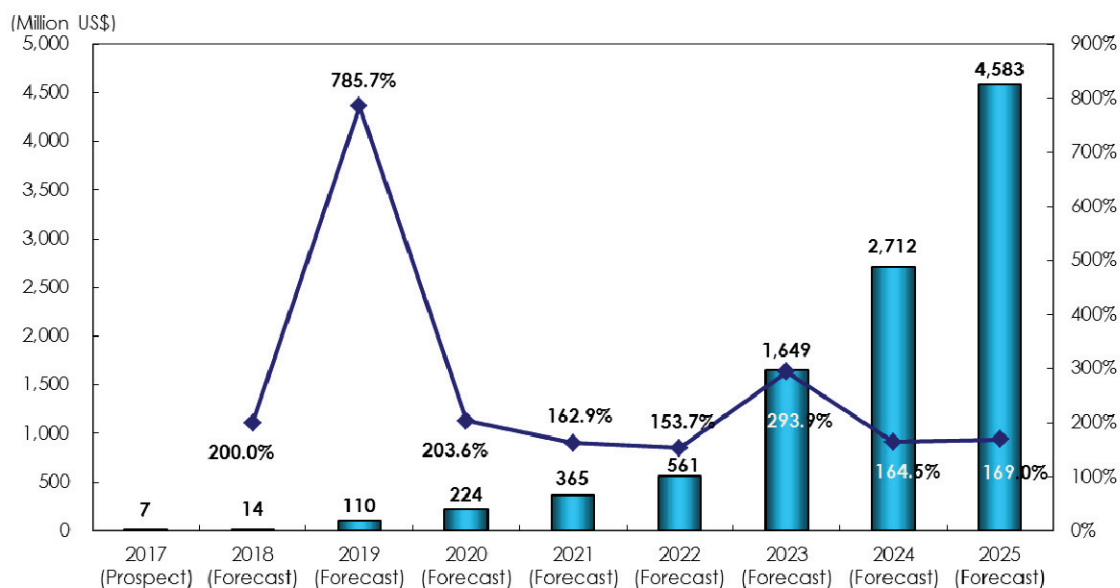
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■ **Table & Figure 1: Transition and Forecast of Global Micro LED Market Size**

(Million US\$)

	2017 (Prospect)	2018 (Forecast)	2019 (Forecast)	2020 (Forecast)	2021 (Forecast)	2022 (Forecast)	2023 (Forecast)	2024 (Forecast)	2025 (Forecast)
Micro LED Market Size	7	14	110	224	365	561	1,649	2,712	4,583
Y-o-Y Comparison		200.0%	785.7%	203.6%	162.9%	153.7%	293.9%	164.5%	169.0%



Estimated by Yano Research Institute

Notes:

1. The micro LED market size has been calculated based on the estimated costs of micro LED light source and of their fixing processes.