

The Global Market for MicroLED Displays 2021

<https://marketpublishers.com/r/G36A1B7D6955EN.html>

Date: May 2021

Pages: 152

Price: US\$ 1,130.00 (Single User License)

ID: G36A1B7D6955EN

Abstracts

The Global Market for MicroLED Displays 2021 analyses and forecasts the commercial potential of the MicroLED market. In this report, we also provide strategic analysis of the key players in the microLED industry which include large global consumer electronics producers, major equipment and materials suppliers, national laboratories and universities and small start-ups.

Since 2020 the development of microLED has been accelerating, with new chips, packaging, and downstream display applications emerging one after another, and market acceptance is also increasing. Several electronics manufacturers including Samsung and LG are bringing new microLED TV products to the market in 2021.

Micro-LED display technology offers a huge improvement on standard display panels due to its optimum brightness, efficiency and image definition, as well as improved lifetime. These benefits are crucial for near-to-eye applications such as augmented reality (AR) and head-mounted displays. They are also game changing technologies for a range of other applications – from large area displays and TVs to mobile phones and wearable devices such as smartwatches.

Applications include:

Displays

Head mounted displays (HMDs)

Large flat panel displays for TVs and monitors.

Large sized MicroLED RGB displays for outdoor signage

Smartphones

Smartwatches

Flexible displays.

Automotive

Head-up displays (HUD).

Automotive panels.

Augmented reality/virtual reality (AR/VR)

Three-dimensional/augmented reality/virtual reality (3D/AR/VR) displays

Pico-projectors

Smart glasses.

Biotechnology & medicine

Wearable biomedical devices.

Light sources for the neural interface and optogenetics.

Bioimaging.

Cochlear implants.

Visible light communication (Li-Fi)

Flexible lighting.

Report contents include:

Latest technology and supply chain information.

Industry trends and growth drivers.

Assessment of technology challenges.

Current and planned microLED products.

Analysis of markets and applications for microLEDs. Markets covered include TVs, AR and VR, smartphones, automotive, wearables and smartwatches, medical displays, flexible and foldable displays and transparent displays.

Assessment of competitive landscape.

MicroLED technology and market challenges.

Units shipments for microLEDs, by market, 2020-2026.

MicroLED industry developments 2020-2021.

Profiles of 63 companies. Companies profiled include Aledia, AU Optronics Corporation, China Star Optoelectronics Technology (CSOT), Ennostar, Inc., GI?, Jade Bird Display, Japan Display Inc. (JDI), Konka Group, LedMan Optoelectronics Co., Ltd., Leyard OptoElectronics, LG Display Co., Ltd., MICLEDI Microdisplays, Micro Nitride Co., Ltd., Mikro Mesa Technology Co., Ltd., PlayNitride, Inc., Rohinni LLC, Samsung, Seoul Semiconductor/Seoul Viosys Co., Ltd., Sony, Vuzix Corporation, TCL Electronics, Tianma Microelectronics Co., Ltd. and VueReal.

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