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Taiwan Photonics News

Taiwan Economy Showing Strong Performance

In the first quarter of 2021, due to the epidemic situation and the Sino-US trade war in the same quarter of 2020, the base period was relatively low, causing the output value of Taiwan's optoelectronic industries to increase from negative to positive. Among them, flat-panel displays were due to the housing economy and the shortage of raw materials and components. Factors such as incentives for panel prices and volume have risen, which is the largest mid-year growth rate for all optoelectronic industries, as high as 45.3%.

In 2021, the global economy will gradually get rid of the impact of the COVID19 epidemic, and various consumer demands will continue to increase. The annual output value of Taiwan's optoelectronic industry in the first quarter of 2021 was NT\$388.2 billion, which was a 34.13% increase from the NT\$289.4 billion in the first quarter of 2020, as shown in Figure 1. The output value of each industry showed a growth trend compared with the same quarter of the previous year. Among them, the annual growth rate of the output value of the display industry was as high as 45.3%, as shown in Figure 2. However, during the Lunar New Year, the number of working days decreased and other factors, the output value of the first quarter of 2021 and the fourth quarter of 2020 was NT\$402.7 billion, a slight drop of 3.69%. The detailed information is shown in Figure 3.

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LED Market Review and Forecast

In 2020, the global output value of LED components will reach approximately US\$15 billion (including the total of LED epitaxial chips, dies, packages, and modules), with an annual decline of about 6%. The main reason is that the global epidemic severely restricts business and economic activities, and LED components bear the brunt of lighting and automotive applications. The formation of the lifestyle of working at home and remote teaching has driven the rise of LED backlight components of LCD monitors for laptops and tablet computers, and slowed down the decline in overall output value.

With the emergence of new covid-19 vaccines and the gradual relief of the epidemic, the global auto market suppressed by the epidemic has

clearly recovered and rebounded; the liquid crystal display industry continues to be hot, and new products equipped with Mini LED backlights are launched; invisible light IR LEDs are used in smart wearable devices/sensors. The application and demand of UV LED in disinfection and sterilization applications continue to increase. The overall forecast is that in 2021, the global LED component output value will show a double-digit growth of 12%.



Company Note

EVERLIGHT LED XI3534: The SMART combination of light, performance, and value.

EVERLIGHT sets new expectations for Automotive interior lighting follow general trends in lighting toward hundreds and even thousands of RGB LEDs per car. EVERLIGHT has officially become a member of the ISELED Alliance, which is to develop intelligent RGB LED technology for automotive interior and provide innovative solutions for automotive lighting. With the continuous global technology evolution and the transfer of the automotive industry to digitalization, vehicle interior lighting has grown substantially to improve the user experience. In order to comply with the ongoing trend smart innovation research and development, EVERLIGHT employs ISELED to release EL SMARTLED (XI3534-RGBIC0321L-AM) with an embedded IC. The new XI3534 smart LED has installed a driver IC from Inova Semiconductors in the new designed package structure in addition to the three color chips (red, blue and green).

Key features of the XI3534 includes:

- Active Thermal Management in LED device
- Free up more possibilities for the Light module design concept.

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