

PRODUCT NEWS

EVERLIGHT Electronics introduces low power consumption color sensor for display applications

Shulin, New Taipei City 【2015.12.23】 – EVERLIGHT ELECTRONICS CO., LTD. 【TSE:2393】, a leading player in the global LED and optoelectronics industry, announces the introduction of the company's first RGB integrated color sensor. Based on CMOS technology and therefore able to operate at a minimum supply voltage of 1.7 volts, the CLS-16D17-34-DF6 adjusts the brightness of display equipment with less power consumption than comparable color sensor devices which almost all operate at a minimum of 2.7 volts.

Highly sensitive, EVERLIGHT's digital RGB color sensor CLS-16D17-34-DF6 features a four channel digital output for sensing red, green, and blue (RGB) via an I²C interface. CCT and Lux sensing work through the master control unit (MCU). Due to a special RGB algorithm, infrared light noise is effectively avoided to calculate CCT and Lux figures accurately. Even in a less bright environment, it still can reach high sensor resolution of 0.002 lx per count.

EVERLIGHT's CLS-16D17-34-DF6 excels in display equipment including smart watch, mobile phone, tablets and notebooks, navigation systems, virtual keyboards and sensor for Internet Of Things (IoT). Thanks to RGB color sensing, the brightness and color temperature of backlight can be adjusted based on the ambient light source, which makes the display applications more comfortable for human eyes.

Other features include: programmable exposure time; convert incident light intensity to digital data; 16-bit CS ADC resolution; automatic light flickering cancellation supporting; excellent transmittance of glass package; spectral response close to human eye; linear CS response for easy design; low dark noise and a low stop current of typical 1uA.

Product image:

Image caption: EVERLIGHT's new digital RGB color sensor CLS-16D17-34-DF6.

Sample Available: Yes. (Upon request)

Mass Production: Q4 2015

About EVERLIGHT Electronics Co. Ltd.

EVERLIGHT Electronics Co., Ltd. was founded in 1983 in Taipei, Taiwan. Led by Chairman Robert Yeh, EVERLIGHT Electronics Co. have over 32 years of R&D experience for reliable capability. With immediate service and an excellent brand reputation, EVERLIGHT has taken top five in the competitive LED market. Our products are manufactured and packed in-house to guarantee maximum quality and service. EVERLIGHT provides a diverse product portfolio consisting of High Power LEDs, SMD LEDs, Lamps, Lighting Components, LED Lighting Modules, Digital Displays, Optocouplers and Infrared Components for various applications. Today, EVERLIGHT is a global company with over 6,400 employees based in China, Hong Kong, Japan, Korea, Singapore, Malaysia, India, Germany and U.S.A.

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