

## PRODUCT NEWS

**EVERLIGHT Electronics introduces Infrared LED for  
Iris Recognition – the NIR-C19M Series**

**Shulin, New Taipei City [2017.08.30]** – EVERLIGHT ELECTRONICS CO., LTD. [TSE:2393], a leading player in the global LED and optoelectronics industry, launches the NIR-C19M series with a wavelength of 810nm which exert the clearest contrast effect to read the pattern of the iris. The recognition process is precise, quick and features excellent heat dissipation. This makes it perfectly suitable for iris recognition applications in security surveillance systems (access control) and portable handsets.

Following the market demand and the resulting development of appropriate high technology, the concept of “body is access code” has been integrated into many systems and devices. Smart biometric identification allows measuring the users’ unique patterns in the fingerprint, voice, iris and face quickly and easily to avoid the problem of recalling traditional long passwords. Infrared LEDs for non-contact optical identification have the advantages of compact size, strong security and quick recognition speed which make them to an increasingly sought-after advanced technology around the world.

EVERLIGHT’s NIR-C19M series for non-contact optical iris recognition adopts a molding manufacturing process. Compared to the traditional glue dispense manufacturing process, molding results in a smoother surface which not only enhances the look but also increases reliability. The NIR-C19M series works with a wavelength of 810nm and uses an advanced ISP image processor together with CMOS sensor to receive the infrared reflection by the human eye to authenticate iris identification. Its unique optical design achieves a clear high reflection rate, a small angle (FOV=25) and a radiant intensity of up to 2,700mW/Sr below / less than 1000mA. The heat dissipation with a thermal resistance of 4.38°C/W is superior to any other competing product in the market. The device has also passed IEC62471, a safety regulation to prove that no harm arises to human eyes and skin. In addition to these excellent optical features, the dimension of NIR-C19M series is merely 3.5 x 3.5 x 2.3 mm which is particularly desirable for space-constrained portable devices.

EVERLIGHT integrates its professional R&D, Sales and Marketing teams to continuously pursue innovation and technical breakthroughs, is able to provide the customers with the most comprehensive and top-quality LED related solutions.



**Caption:** EVERLIGHT's 810nm infrared LED NIR-C19M series for iris recognition/surveillance applications (Structures and materials depend on demand of client).

**Source:** EVERLIGHT Electronics

More information or data sheet for this product upon request: Please contact your local EVERLIGHT sales office. Local sales information: [www.everlight.com](http://www.everlight.com).

#### **About EVERLIGHT Electronics Co. Ltd.**

EVERLIGHT Electronics Co., Ltd. was founded in 1983 in Taipei, Taiwan. Led by Chairman Robert Yeh. EVERLIGHT has over 34 years of R&D experience for reliable capability. With global operations for customer service and an excellent brand reputation, EVERLIGHT has been ranked in the top five LED manufacturers in this competitive LED market. Our products are manufactured in-house to guarantee maximum quality and service. EVERLIGHT provides the most diversified product portfolio consisting of Low Power LEDs to Ultra High Power LEDs, Through-hole LEDs to SMD LEDs, LED Lighting Modules, Digital Displays, Optocouplers and Infrared Emitters and Sensors, and many other LEDs for the Lighting, TFT, Automotive, Signage, and Consumer markets.. Today, EVERLIGHT is a global company with over 6,400 employees based throughout China, Hong Kong, Japan, Korea, Singapore, Malaysia, India, Germany and U.S.A.

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