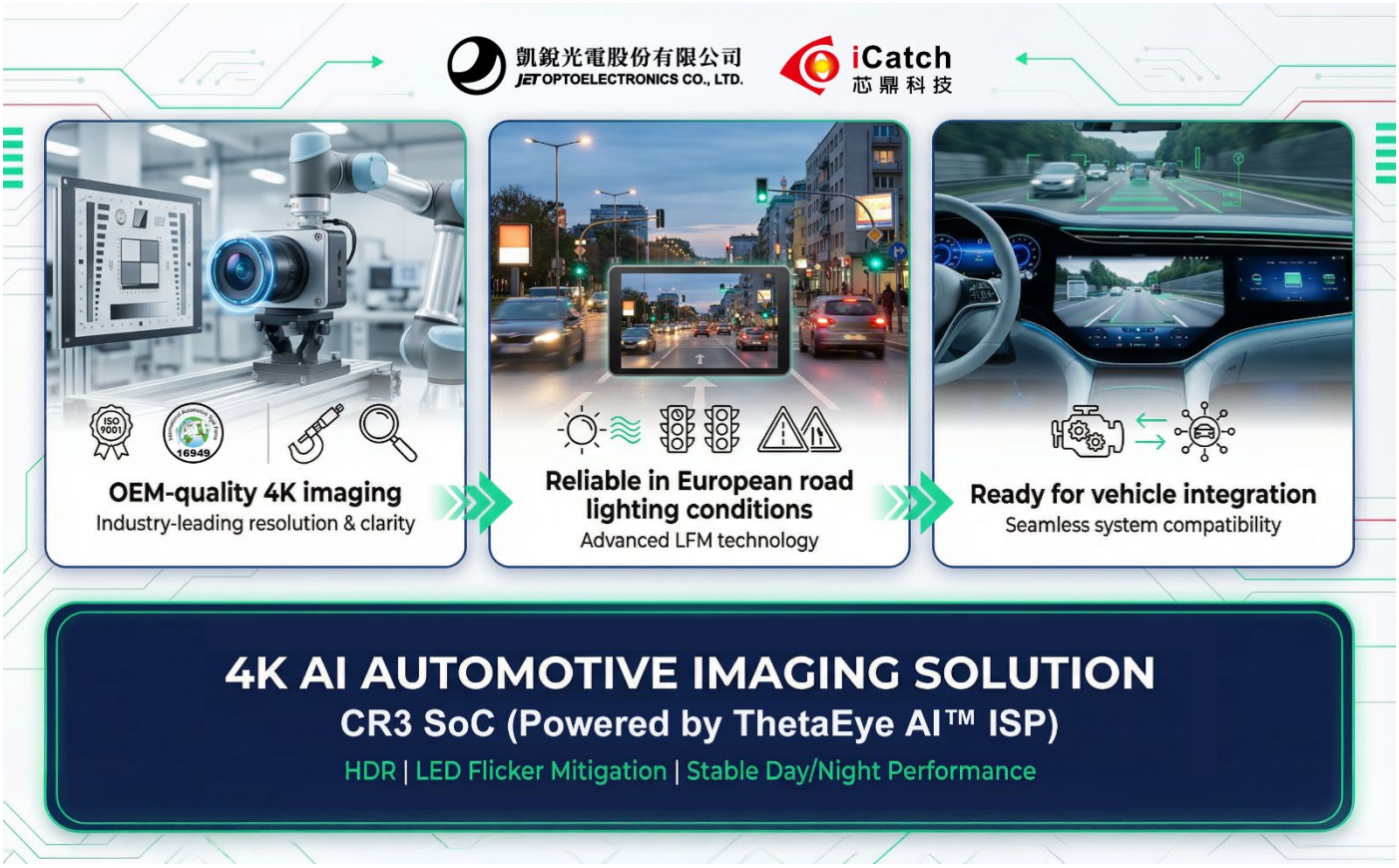
凱鋭光電股份有限公司
JET OPTOELECTRONICS CO., LTD.

iCatch 芯鼎科技

Jet Opto and iCatch Technology Announce 4K Automotive AI Imaging Solution Adopted into European OEM Supply Chain

Jet Opto (a Tier-1 automotive supplier) today announced a joint launch with its long-term partner iCatch Technology of a 4K automotive AI imaging solution designed to meet stringent European OEM requirements. Powered by iCatch's CR3 automotive AI imaging SoC, the solution has successfully passed validation by European automakers and is scheduled to enter mass production by the end of Q1 2026.



At the core of the 4K OEM-grade imaging solution is iCatch's CR3 automotive AI imaging SoC, featuring the 8th-generation ThetaEye AI™ Image Signal Processing (ISP) engine, paired with a 4K LTM image sensor. This combination is engineered to address Europe's complex road conditions and diverse lighting environments, delivering high-quality, stable automotive imaging performance.

Leveraging advanced imaging technologies integrated into the CR3 SoC, the solution delivers excellent high dynamic range (HDR) performance and supports LED Flicker Mitigation (LFM) to suppress flicker caused by LED streetlights, traffic signals, and other artificial light sources. Even under nighttime driving, high-speed motion, or extreme contrast conditions, the system maintains clear, stable, and reliable image quality—meeting the stringent safety and quality standards required by European OEMs for in-vehicle imaging systems.

Jet Opto and iCatch Technology have maintained a close and long-standing collaboration in advanced imaging and automotive system development, continuously expanding their footprint in automotive imaging applications. Through this partnership, Jet Opto—acting as a Tier-1 supplier—has successfully introduced the jointly developed 4K OEM dash camera solution into the European automotive supply chain. The solution responds to growing market demand for high-resolution, high-reliability imaging while ensuring accurate recording of critical driving events, further enhancing vehicle safety and system value.

With years of deep expertise in the automotive imaging market, iCatch Technology continues to invest in ThetaEye AI™ ISP technologies purpose-built for AI-based image analysis. The 4K imaging solution based on the CR3 automotive AI SoC supports 4K HDR video processing, H.264/H.265 encoding, and real-time data transmission, enabling seamless integration with a wide range of ADAS and intelligent in-vehicle applications. The CR3 platform has already been adopted by multiple automotive imaging and system manufacturers across Japan, Korea, and Europe, with several mass-production projects currently underway.

In this collaboration, Jet Opto demonstrates its comprehensive one-stop Tier-1 service capability, covering early-stage software development, hardware engineering, optical module design, industrial design (ID) and mechanical integration, highly customized system integration, and in-house manufacturing. This end-to-end capability enables automotive OEM customers to accelerate product development from design validation through volume production.

Weber Hsu, President of iCatch Technology, stated that Jet Opto is one of iCatch's most important long-term partners in the automotive AI imaging field, and through deep collaboration across image sensing, AI image processing, and automotive system integration, the two companies have successfully brought a European OEM-compliant 4K pre-installed imaging solution into mass production, further strengthening iCatch's global footprint in the automotive AI vision market.

Jerry Lin, Chairman and President of Jet Opto, added that the long-standing partnership with iCatch has enabled both teams to accumulate extensive experience in optical modules, AI image processing, and automotive system integration, and that this 4K OEM-grade imaging solution demonstrates Jet Opto's Tier-1 strengths in system integration and volume delivery, helping European automakers deploy higher-quality and more reliable imaging applications in premium vehicle platforms.

Looking ahead, Jet Opto and iCatch Technology will continue to deepen their collaboration in AI imaging and edge computing, expanding into broader automotive and intelligent vision applications to deliver smarter and safer AI imaging solutions to the global automotive market.

Jet Opto website:
https://www.jet-opto.com.tw/

iCatch Technology website:
https://www.icatchtek.com/Requests