

Category Award IoT Applications

3D Facial Recognition Module



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Winning Reason

Kneron's advanced facial occlusion and pose estimation algorithms introduce a lightweight attention mechanism, achieving a 39% speed increase over the previous version while enhancing feature representation. The system utilizes a unique reconfigurable modular architecture characterized by low power consumption and high computational efficiency. Specifically optimized for edge devices such as smart locks and financial terminals, the solution integrates infrared imaging with depth analysis to maintain superior performance across diverse lighting environments.

Product Feature

1. High accuracy (FRR < 1% @ FAR < 0.1%): special optimization of the model, and can more effectively prevent the similar close relative population unlock; 2. Adapt to various light conditions: Kneron's Intelligent AE exposure algorithm covered special scenes such as strong light, backlight and strong light within 100000Lux, Enhanced the success rate of unlocking in any scenes; 3. ISO certification - Anti-Spoofing and biometric test ;PAD - ISO 30107-3 /4 (Presentation Attack Detection) and ISO 19795-1/2 (Biometric performance); 4. Lower power: could be use 4*AA battery; 5. Quick boot: for example, door lock from booting to FR finished, under 0.9 s,

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