

BROCHURE

IriShield™

MK2120UL



An ultra compact, auto-capture iris-scanner, complete with on-board iris recognition and a PKI-based security infrastructure that ensures end-to-end data security.

about

The best selling iris recognition device of all time

Features

- **Secure data & communication:**
Each IriShield device has its own 2048 bit RSA key securely generated on-board for encryption and digital signature.
- **NIST-proven extremely accurate iris matching algorithm**
- **STQC certified for authentication device**
- **Tamper-proof**
- **Supported interface connections:**
USB
- **Supported OS's:**
Android/Windows/WinCE/Linux/eLinux/Mac/Proprietary OS/Non-OS

(※ Specifications & Color to change without notice)

Why IRITECH?

IriTech, Inc. is one of very few iris providers who owns all in-house proprietary technologies vital for deploying any scalable end-to-end iris ecosystem. With more than 20 years of experience in iris recognition technology and top-ranked NIST¹⁾-proven algorithms, IriTech has been trusted by many prestigious clients. Our systems have been deployed in multiple large-scale projects ranging from governments to corporates due to its exceptional performance in tough environment. IriTech is proud to be the partner of choice, leading the iris biometrics technology.

¹⁾ National Institute of Standards and Technology

Overview

The IriShield™ MK 2120UL features IriTech's superior iris image quality assessment algorithm to provide good quality images and avoid false positives while maximizing true positive identification rates.

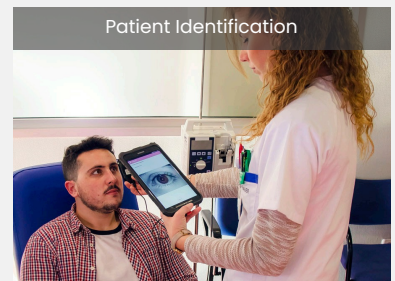
Advantages

- Cost-effective
- Ultra-compact, light weight
- Supporting power management functions
- FREE Software Development Kit (SDK)

Product Highlights

- The former MK 2120U is the first camera to receive STQC certification for authentication device for UIDAI project (2014).
- Trusted and deployed in many large-scale government projects (2005-now).

Notable Projects



≡ Technical Specifications

Capture Mode	Auto capture with built-in quality check (using NIST IQCE and ISO 29794-6 quality metrics)
Key Functionalities	On-board Template Generation, 1:1 and 1:N Template Matching On-board PKI security functions
Viewfinder	Capture distance: 14 - 15 cm (5.5 - 5.9 in) Capture volume: 33 x 24 x 10 mm
Image Format	ISO 19794-6, full support of K1, K2, K3, and K7 Max 640 x 480 pixels, 8-bit grayscale
Sensor	Resolution: VGA, Scan type: Progressive, SNR: ≥ 37 dB
Pixel Density	Normally greater than 210 pixels across iris diameter
Dimensions	51.2 x 92.6 x 15.1 mm (2 x 3.6 x 0.59 in)
Power	Single USB Bus Powered (DC + 5V ± 5%) (Max power consumption = 300 mA)
Illumination	Infrared LED; Radiant Intensity: 0.2 mW/cm ² (700-900 nm)
Environmental	-20°C to +60°C (Storage); 0°C to +50°C (Operating); 0% to 90% Humidity (Non-Condensing)
Usage	Indoor; Outdoor (avoid direct sunlight and bright reflections)
Compliance & Certificates	Eye safety standard (IEC 62471:2006-07), RoHS, FCC-Class B, IP54, STQC
Resolution	Spatial : ≥ 60% @ 4.0 Lp/mm, Pixel : ≥ 16 Pixels/mm
Memory	64 MB NAND Flash Memory, 128 MB Mobile DDR SDRAM
Connectivity	USB 2.0
Security	RSA (2048-bit) and AES (256-bit); X509 Certificate, PFX/PKCS#12 Certificate, RSA key pair generated on-board
Ancillary SW	Demo Application, Drivers, SDK (C/C++, .NET C#/VB, Java) with Sample codes (※ Please specify before ordering)
Host OS	Windows, Linux, Android, Mac, eLinux (※ Please specify before ordering)

≡ MK 2021U vs. MK 2120UL

	MK 2120U	MK 2120UL
Capturing Distance	5 cm (1.97 in)	15 cm (5.91 in)
On-board Matching	Yes	No
UART Connection	Yes	No
Power	Max power consumption = 250mA	Max power consumption = 300mA

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