

IriShield™-USB MK 2120U

Auto-Capture Iris Camera with On-Board Iris Recognition

**Ultra-compact and ready-to-use iris camera for
access control and identification systems**



IriShield™-USB MK 2120U
(Encased Device)

The IriShield™-USB MK 2120U camera features IriTech's superior iris matching and iris image quality assessment algorithms to provide good quality images and avoid false positives while maximizing true positive identification rates. The embedded algorithms can complete a matching query against 1,000 stored templates in 750 milliseconds. In addition, with IriTech's on-board PKI-like security infrastructure, sensitive data is completely secured in both storage and communication. In summary, the IriShield™-USB MK 2120U is ultra-compact and ready-to-use monocular iris camera, which is highly portable and fashionable looking, ideal for biometric service providers or value-added resellers to develop application systems.

Key Benefits

● **Secure on-board processing**

- All key functions like iris capture, iris recognition, key generation, encryption and digital signature are done on-board in a secure environment.
- Tamper-proof.

● **Secure data & communication**

- Each IriShield device has its own 2048-bit RSA and 256-bit AES keys securely generated on-board for encryption and digital signature.
- Key device in IriTech's secure end-to-end biometric solution.
- OTP/Password/Timestamp can be seamlessly integrated with IriShield.

● **Ultra-compact , light weight**

● **Low power consumption**

● **Cost effective**

- Most economical for projects of any size.

● **Various OS supported**

- Windows Family, Linux Family, WinCE, Embedded Linux, and Android; Can also work with other proprietary OS or even with no OS.

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Specifications : IriShield™-USB MK 2120U

* IriShield™-USB MK 2120U is ready-to-use, portable, and fashionable-looking camera. Ideal for software developers or value added resellers to develop application system. No additional hardware required.

Capture Mode	Auto capture
Key Functionalities	On Board Capturing iris image, Template generation, Verification, Identification
Capture Distance	4.7 cm - 5.3 cm (1.8 inches -2.1 inches) from the image sensor (Optimal distance = 5 cm (2inches), Focal depth = 0.6 cm (0.2 inch)
Image Format	ISO Standard 19794-6 (2005 & 2011), (640 x 480 Pixels, 8 bit Grayscale), full support of K1, K2, K3, and K7
Sensor Resolution	VGA
Dimensions	51.2mm x 92.6mm x 15.1mm (2 inches x 3.6 inches x 0.59 inch)
Power	Single USB Bus Powered (DC +5V±5%) (Max power consumption=250mA)
Illumination	Infrared LED
Environmental	0 °C to + 45 °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 A , IP54
Resolution	Spatial : ≥ 60% @ 4.0 Lp/mm, Pixel : ≥ 16 Pixels/mm
Connectivity	USB 2.0
Product package	Encased device
Security	PKI (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 Family, Linux Family, WinCE, Embedded Linux, and Android (※ Please specify before ordering)

※ Specifications subject to change without notice.