



# IriShield™ MK 2120UL

Powerful and cost-effective iris solution

[www.irittech.com](http://www.irittech.com)

**Iritech, Inc.**  
Technology with the Iris

## IriShield™ MK 2120UL

ULTRA-COMPACT, AUTO-CAPTURE IRIS SCANNER WITH A PKI-BASED SECURITY INFRASTRUCTURE THAT ENSURES END-TO-END DATA SECURITY.

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.

### ► 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 image quality assessment algorithm**
- **Tamper-proof**
- **Supported interface connections:** USB
- **Supported OS's:** Android/ Windows/ WinCE/ Linux/ eLinux/ Mac/proprietary OS/ Non-OS

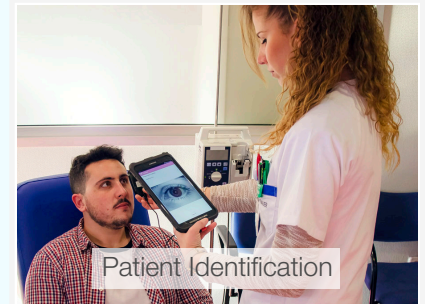
### ► ADVANTAGES

- 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 (2005-2015)

### ► NOTABLE PROJECTS



## ► SPECIFICATIONS

Capture Mode	Auto
Capture Distance	14.0 cm - 15.0 cm (5.5 inches - 5.9 inches) from the image sensor (optimal distance = 14.5 cm (5.7 inches)), Focal depth = 1.0 cm (0.4 inch)
Sensor Resolution	VGA
Dimensions	51.2 mm x 92.6 mm x 15.1 mm (2 inches x 3.6 inches x 0.59 inch)
Power	Single USB Bus Powered (DC +5V±5%) (Max power consumption = 300mA)
Illumination	Near infrared LED
Environmental	-20°C to +60°C (Storage); 0°C to +50°C (Operating); 10% 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
Resolution	Spatial : ≥ 50% @ 1.0 Lp/mm, Pixel : ≥ 10 Pixels/mm
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	Drivers, SDK (C/C++, .NET, C#/VB, Java), Demo Application with Sample codes
Host OS	Windows Family, Linux Family, WinCE, Embedded Linux, Android, Mac, proprietary OS or Non-OS



Scan QR Code with your Smart Phone to get demo IriShield Software

## ► PRODUCT PACKAGE



IriShield-USB MK 2120UL



Micro USB cable



Micro to Micro OTG cable



Pouch



Software Package

## ► CERTIFICATIONS



## ► ABOUT IRITECH

Since its establishment in 2000, IriTech has continued its efforts to develop the most advanced iris recognition technology. IriTech's algorithm was top ranked by the U.S. government's NIST IREX test and IriTech's product has been trusted and deployed in many government projects around the globe. Being chosen by United Nations to supply iris scanner for identifying refugees around the world and being selected to provide iris recognition software to Department of Homeland Security after three years of pilot testing - are a few of many testimonies to the level of excellence IriTech has achieved.

### CONTACT US

**Technical Support**  
collaboration@iritech.com

**General Inquiries**  
info@iritech.com

**India Sales & Support**  
india@iritech.com

**Website:** www.iritech.com

### FIND US

#### HEADQUARTERS

11166 Fairfax Boulevard, Suite 302,  
Fairfax, VA 22030, U.S.A  
Tel. +1.703.877.2135 Fax: +1.703.877.2136

#### R&D CENTERS

Seoul (Korea), Ho Chi Minh (Vietnam)