

# MK2120U

## Ultra-Compact Iris Scanner



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

### FEATURES

- **Secure on-board processing:** All key functions like iris capture, iris recognition, encryption and digital signature are done on-board in a secure environment.
- **Secure data & communication:** Each 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**
- **Tamper-proof**
- **Internal gallery: 1,000 iris templates (500 IDs)**
- **Supported interface connections: USB, UART**
- **Supported OS's: Android/ Windows/ WinCE/ Linux/eLinux/ Mac/proprietary OS/ Non-OS**

### SPECIFICATIONS

<b>Capture mode</b>	Auto
<b>Capture Distance</b>	4.7 cm - 5.3 cm (1.8 inches -2.1 inches) from the image sensor (Optimal distance = 5.0 cm (2 inches), Focal depth = 6 mm (0.2 inch)
<b>Image Format</b>	ISO Standard 19794-6 (2005 & 2011), (640 x 480 Pixels, 8 bit Grayscale), full support of K1, K2, K3, K7
<b>Sensor Resolution</b>	VGA
<b>Dimension</b>	USB board 51.2 mm x 92.6 mm x 15.1 mm (2 inches x 3.6 inches x 0.59 inch)

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<b>Power</b>	Single USB Bus Powered (DC +5V±5%) (Max power consumption=250mA)
<b>Illumination</b>	Near infrared LED
<b>Environmental</b>	-20°C to +60°C (Storage); 0°C to +50°C (Operating); 10% to 90% Humidity (Non-Condensing)*
<b>Usage</b>	Indoor; Outdoor (avoid direct sunlight and bright reflections)
<b>Compliance &amp; Certificates</b>	Eye safety standard (IEC 62471:2006-07), RoHS, FCC-Class B*, IP54*
<b>Resolution</b>	Spatial : ≥ 60% @ 4.0 Lp/mm, Pixel : ≥ 16 Pixels/mm
<b>Connectivity</b>	USB 2.0 (IriShield -USB Series), UART/ RS-232 ( IriShield -UART Series)
<b>Security</b>	RSA (2048-bit) and AES (256-bit); X509 Certificate, PFX/PKCS#12 Certificate, RSA key pair generated on-board
<b>Matching Speed</b>	2000 matches per second (exclusive of communication time between the camera and the host)
<b>Ancillary SW</b>	Drivers, SDK (C/C++, .NET, C#/VB, Java), Demo Application with Sample codes
<b>Host OS</b>	Windows Family, Linux Family, WinCE, Embedded Linux, Android, Mac, proprietary OS or Non-OS

\* Encased model only

► CERTIFICATIONS



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