



NB-3023-U-UID Reader

One Touch.
One You.
NEXT Biometrics

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The NB-3023-U-UID Reader is intended exclusively for the Aadhaar market in India. The reader has passed the May 2016 STQC FRR testing and it has been STQC certified in combination with the latest MINEX III certified algorithm from Innovatrics.

The NB-3023-U-UID Reader features a high quality fingerprint area sensor with USB interface. It comes in an ergonomic desktop peripheral form factor. The sensor relies on the NEXT NB-0510-S sensor chipset combined with a USB 2.0 controller for seamless system integration.

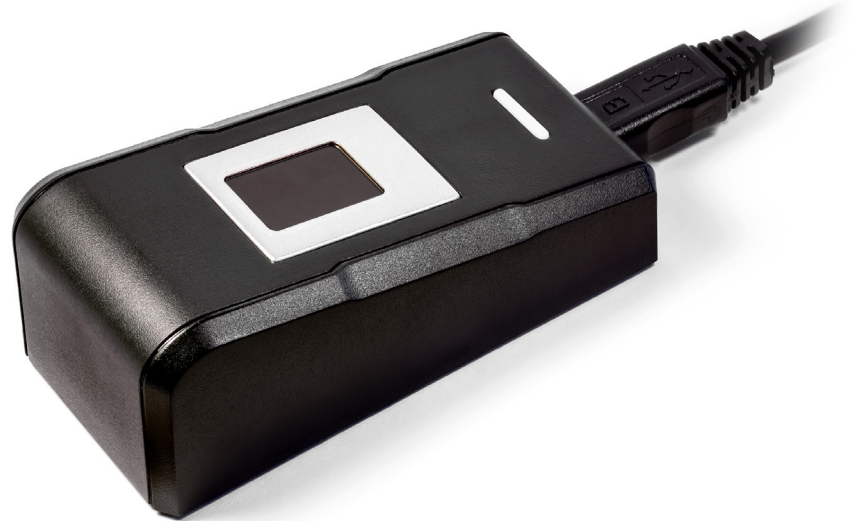
The USB sensor works with the patented *NEXT Active Thermal*[®] principle. The sensor technology is tolerant against dirt, grease and varying environmental conditions. The large active area allows stable imaging, intuitive user operation and is ideally suited to mass market applications in need of both security and convenience.

NEXT Biometrics offers the NB-3023-U-UID Reader together with a Level-0 Registered Device Service (RDS) for Microsoft Windows 7, 8.1 and 10, Linux, and Android. Level-0 RDS implementations are also STQC certified.

The NB-3023-U-UID Reader has been tested for compliance with PIV Image Quality Specification for Single Finger Capture Devices (2006) and compliance with ISO/IEC 19794-4:2011.

APPLICATION EXAMPLES:

- e-KYC
- Aadhaar authentication
- Jeevan Pramaan
- Beneficiary programs
- POS



TECHNICAL SPECIFICATIONS

Sensor technology	<i>NEXT Active Thermal</i> [®] sensing (patented)
Total dimensions (mm)	80.0 x 40.0 x 29.0
Active sensing area (mm)	11.9 x 16.9
Pixels	180 x 256
Optical equivalent resolution (ppi)	500 (demonstrated per PIV test)
Gray scale levels	256
Image scan time (s)	0.53
Finger detection	Hardware-assisted, low power
Status indicator	Single status LED
Total process time MINEX extraction and PID block creation	< 1s (depends on host)
Power supply	5.0 V (USB)
Current consumption (mA)	75 (typical); < 150 (max)
Standby current consumption (µA)	< 500
Logical Interface	USB 2.0 full-speed
MINEX template extractor	Innovatrics ANSI/ISO SDK v2.03, MINEX III certified
Biometric error rates	< 2% FNMR @ 0.01% FMR
Physical Interface	1.8 m detachable USB cable of type Micro-B to -A; USB Micro-B receptacle on reader.
Weight	88 g, excluding cable
ESD protection	±8 kV contact discharge , ± 15 kV air discharge, according to IEC 61000-4-2
Mechanical durability	2 million touches @ 2.45N
Scratch resistance	Durable lifetime coating, hardness > 9H
Operating conditions	-10 °C to +60 °C at 95% RH (non-condensing)
Storage conditions	-20 °C to +70 °C at 95% RH (non condensing)
Certifications	CE, FCC, RoHS, WEEE, STQC for UIDAI



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