

**The NEXT Biometrics
NB-3023-U-UID USB FINGERPRINT
READER**

The NEXT Biometrics 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.

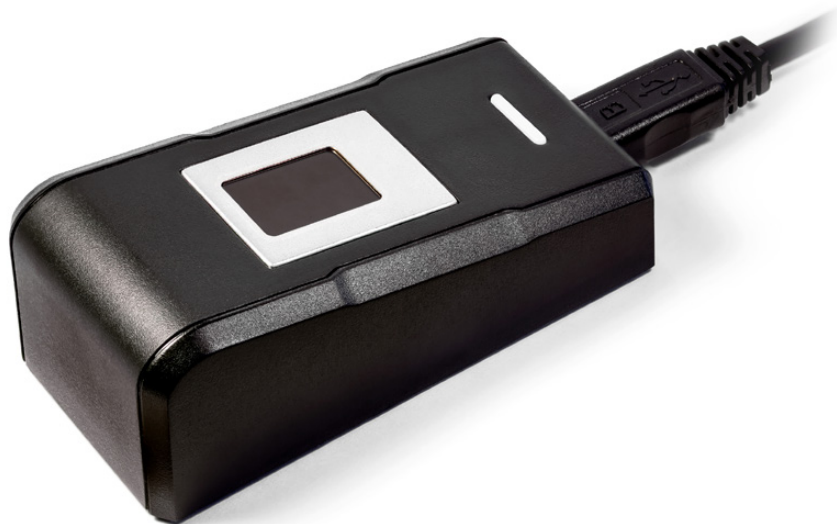
The large active area allows stable imaging, intuitive user operation and is ideally suited to mass market applications in need of both security and convenience.

NB-3023-U-UID is intended exclusively for the Aadhaar market in India. NEXT Biometrics offers a Level-0 Registered Device Service (RDS) for Microsoft Windows 7, Windows 8.1, Windows 10, Linux, and Android. Level-0 RDS implementations are based on the latest, MINEX 3 certified algorithm from Innovatrics and certified by UIDAI.

APPLICATION EXAMPLES:

NB-3023-U-UID is intended exclusively for the Aadhaar market in India. It has passed the May 2016 STQC FRR testing and has obtained basic STQC certification.

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



T E C H N I C A L S P E C I F I C A T I O N S

Sensor technology	NEXT Active Thermal™ 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	500 ppi (demonstrated by test per PIV specification)
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 mA (typical); < 150 mA (max)
Standby current consumption (µA)	< 500 µA
Logical Interface	USB 2.0 full-speed
MINEX template extractor	Innovatrics ANSI/ISO SDK v2.03, MINEX 3 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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