

# BioNANO - The core algorithm

BioNANO is applied in all Anviz biometric-based products used for identification.



- Independent research and development
- Suitable for both wet and dry fingers
- Automatically restores the broken lines in fingerprint images
- Extraction of features in worn fingerprints
- Fingerprint template auto update

## Functional Parameter

Item	Specifications	
Platform	Linux	
Hardware	CPU	Dual-Core 1GHz Processor
	Memory	512M DDR3+2GB Flash
	LCD	3.5" TFT
	LED	Three-color indicator light
Registration and verification	Operating Temperature	-30°C to 60°C
	Humidity	10% to 90%
	Verification Mode	Fingerprint (1:N, 1:1), Password, Card
	Fingerprint capacity	5,000 (1:N), 200,000(1:1)
	Logs	100,000
RFID	HID Prox Card	Yes
	iClass Card	
	Allegion Card	Yes
	Anviz	125KHz EM 13.56MHz Mifare/DesFire/ ISO 14443A
Interface	WiFi	Yes
	TCP/IP	Yes
	RS-232	Yes
	Relay	1 Relay
	USB	1 Host
Web Server	Yes	
Power	DC 5-12V 1A	
Dimensions	140(w) x 190(h) x 32(d) mm (5.51x7.48x1.26")	
Certificates	CE, FCC, RoHS	

## Features

- Linux platform to provide a safe and stable performance
- Comparison time in less than 0.5s
- Embedded fingerprint templates to the IC card to provide a more safety comparison on 1:1
- AFOS408 the latest fingerprint reader, touch on activation infrared, optical imaging technology
- TCP/IP & WiFi are provided to satisfy different needs
- Provide 1 relay for bell and connecting to Access Control system
- RS232 interface can be connected to a Time & Attendance printer
- New material that makes it more appealing and durable
- Ergonomic design with new rubber keypad to provide a better user experience
- Bigger and brighter 3.5 inch color display
- Fast & easy installation through a wall-mounted board
- Ease the experience of user by brand new UI design

