UltraMatch

Standalone Iris Recognition System

04/15/2014 09:00:00
WELCOME

ANVIZ®

UltraMatch
Standalone Iris Recognition System

iCLASS®
by
HID®

04/15/2014 09:00:00
WELCOME

ANVIZ

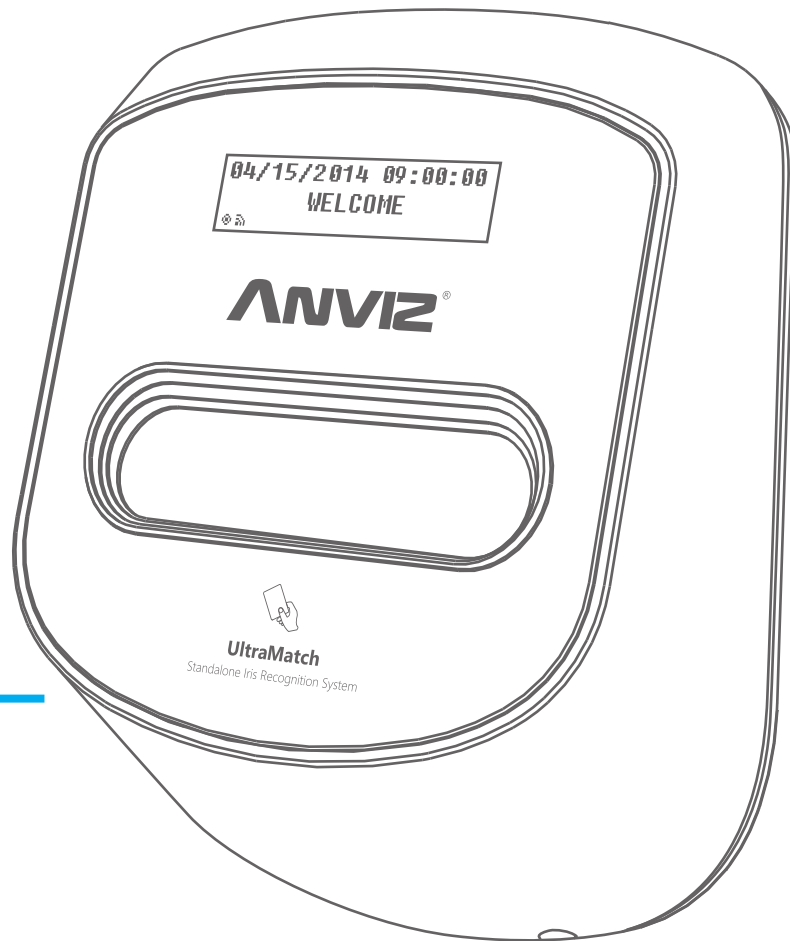UltraMatch S1000
IRIS RECOGNITION SYSTEM

Utilizes the most accurate biometric recognition technology

Smart LED

Color LED shows the proper verification distance

Mobile management enabled by wireless connection

UltraMatch-Standalone Iris Recognition System

UltraMatch series products own a stylish design and robust performance. Adopting BioNANO algorithm, the system provides the most accurate, stable, and quickest iris recognition while delivering high-level security in biometric enrollment, individual identification, and access control.

Containing a complex and random pattern, iris is unique and stable during one's life and the least affected by outside. Iris recognition turns to be the most accurate and fastest option to authenticate someone with certainty.

A web based software and a PC version management software allow clients to manage the system easily. Meanwhile, Iris SDK is available to developers and integrators for developing identity management applications or easy integration and expansions to existing security system.

UltraMatch fully meets the need of governments, financial institutions, medical institutions, and educational facilities.

Unparalleled User Experience

Visual indication

Three color LED indicators prompt the user to place their eyes in proper distance that makes image acquiring easy acceptable and comfortable.

Fast comparison

With BioNANO algorithm, the system identifies people in less than a second, and processes up to 20 people per minute.

Wide applicability

• The UltraMatch works in all lighting environments, from bright illumination to total darkness.
• The system supports all eye colors.

Brown   Blue   Green

• The UltraMatch can identify subjects even when they are wearing eyeglasses, most sunglasses, most types of contact lenses, and even face masks.
• Iris recognition is more suitable than other biometric identification in certain environments. If one has a worn or injured fingerprints or wear gloves, the UltraMatch is better than fingerprint devices.

Blue: Too far;
Green: In capture range;
Red: Too close;

Sunglass   Glass   Veil   Mask

High level security

Accurate and unforgeable

Iris recognition is the most accurate way to identify individuals of all the commonly used biometric technologies. Even twins have completely independent iris textures.
Iris patterns are too intricate to duplicate.

Biometrics FAR Comparison

1 in 500
VOICE
RECOGNITION

1 in 1,000
FACIAL
RECOGNITION

1 in 10,000
FINGERPRINT
RECOGNITION

1 in 1,000,000
IRIS
RECOGNITION

High stability

After 12 months of birth, an infant's iris pattern becomes stable and keeps constant during one's life. Protected by eyelids, iris patterns are not easily damaged or scratched.

Non-contact and non-invasive

A non-contact and non-invasive capture of one's iris creates the most comfortable and friendly user experience.

Applications

Due to its high recognition accuracy, the system is ideal for high-security installations, such as border customs, treasuries, or prisons.
The stability of the iris as an internal, protected, yet externally visible organ of the eye makes the Iris recognition ideal for individual identification in social security system, health care system, homeland security, immigration system, etc.

Law enforcement agency

Integrate with existing security system, the accurate and reliable personnel management solutions can be provided with the functionalities such as access control, prisoner identity verification, visitor identity verification, patrol management and emergency processing.

Medical institutions

Iris identification is largely used in the healthcare industry, such as patient identification and staff access control. The patients take iris as an ID to get superior security for patient record, e-prescribing, and preventing medical errors. And it is extremely pertinent as many healthcare professionals wear gloves or must not touch non-sterile objects.
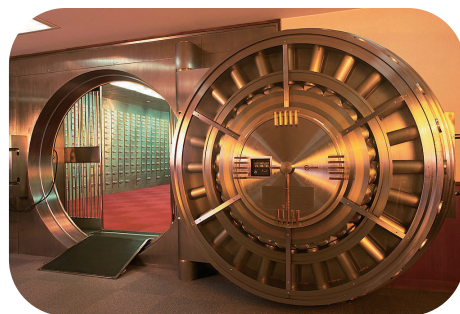

Customs

Improve safety of customer and convenience you pass customs clearance rapidly by using iris identification. Just look at device one second, you can go anywhere you want to go.

Airport

Use Iris as identification for key employee authentication or self-checkin and self-boarding. The system is ideal for access control in restricted space such as parking apron, baggage reclaim, etc.

Financial institutions

Efficiently avoid Identity theft cases, the system can support Iris Payment, Iris authentication on ATM that improve the security level of client account.

Software

Anviz provides you 2 user-friendly approaches to manage your system.

Mobile Client

- Registration
- Off-line Management
- Device Management & Configuration

UltraMatch allows user to access the system via the wireless devices. The user can make registration, user management, and configuration at any time any where.

Desktop Client

- User Management
- Data Management
- Device Management
- Log Management
- Parameter Configuration

The standard software provides comprehensive management for user to administer the system. Elegant Windows 8 visual style GUI makes it easy to be studied and operated.

SDK

Anviz can provide "Iris SDK" to biometric system developers and integrators. The SDK allows for easier integration into existing security systems. The SDK offers Iris templates, matching result in 1:1 or 1:N mode, programming samples and tutorials, and developer's documentation. Development for VB, VC, VB.NET, C#, Delphi, and PB programming languages and Microsoft Windows platform.

BioNANO - The core algorithm

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

BioNANO®
Core Algorithm
Fingerprint - Facial - Iris

- Independent research and development
- 'Live-tissue Verification' technique: By comparing the continuous iris images, it analyzes the changes of pupil to get the result.
- Multiple authentication modes (left, right, either, or both eyes) for different security levels or particular requirement.
- Glass reflex spot detection: Eliminate the spot reflexed by glass and get clear and clean iris image.

Technical Specifications

Model Type	S1000	S2000	S6000
Firmware Platform	ARM Cortex		Intel Atom
OS	WinCE / Linux		Linux
Iris Capture	Single Iris Capture	Dual Iris Capture	
Iris Capture Range	7.09 - 9.45 in.(180 - 240 mm)		
Capture Time	<2s	<1s	
Number of user	150	1000	5000/10000(Optional)
Log Capacity	50,000	100,000	200,000
FAR	≤1/1,000,000	≤1/1,000,000,000,000	
Recognition Mode	Iris, Card, Card+Iris		
Card Read Module	EM ID Card Reader(125KHz) / Optional HID iClass SE Card Reader		
LCD Area	Active Area 2.23 in.(128 x 32 mm)		
Image Format	Progressive Scan		
Web Server	Support		
Wireless working mode	Access Point(Only for mobile device management)		
Temper Alarm	Support		
Eye Safety	ISO/IEC 19794-6(2005&2011) / IEC62471: 22006-07		
Input / Output	Wiegand 26/34, Anviz-Wiegand Output		
Communication	TCP/IP		
Operating Temperature	-20°C to 50°C		
Humidity	0% to 90%		
Power Supply	12V/2A		
Operating Environment	Indoor, Outdoor(Avoid direct light)		
Dimensions (W x H x D)	7.09 x 5.55 x 2.76 in.(180 x 141 x 70 mm)		
Accessory	SC011(Controller)		

Model Line

	Model	S1000	S2000
Capacity	Number of user	150	1000
	Log Capacity	50,000	100,000
Feature	Iris Capture	Single Iris Capture	Dual Iris Capture
	Capture Time	<2s	<1s

Technical Specifications

Inferface	Comm.	TCP/IP, RS485,Wifi
	Relay	Relay Output
	I/O	Wiegand 26/34, Anviz-Wiegand Output
Feature	Identification Mode	Iris, Card, Card+Iris
	Image Format	rogressive Scan
	Web Server	Support
	Wireless working mode	Access Point(Only for mobile device management)
	Temper Alarm	Support
	Eye Safety	ISO/IEC 19794-6(2005&2011) / IEC62471: 22006-07
	Software	Anviz Crosschex Standard Management Software

Hardware	CPU	Dual Core 1GHz CPU
	OS	WinCE / Linux
	Scan Area	22mm*18mm
	Resolution	500 DPI
	LCD	Active Area 2.23 in.(128 x 32 mm)
	Camera	1.3 Million Pixel Camera
	RFID Crad	EM ID, Optional HID iClass SE Card
	Dimensions	7.09 x 5.55 x 2.76 in.(180 x 141 x 70 mm)
	Temperature	-20°C to 60°C
	Humidity	0% to 90%
	Power	DC 12V 2A

Unparalleled User Experience
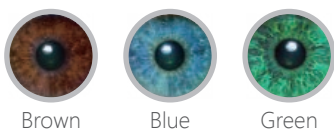
► Visual Indication

Three color LED indicators prompt the user to place their eyes in proper distance that makes image acquiring easy acceptable and comfortable.

► Fast comparison

With BioNANO algorithm, the system identifies people in less than a second, and processes up to 20 people per minute.

► Wide Applicability

The UltraMatch works in all lighting environments, from bright illumination to total darkness. The system supports all eye colors.

Brown   Blue   Green

The UltraMatch can identify subjects even when they are wearing eyeglasses, most sunglasses, most types of contact lenses, and even face masks.

Iris recognition is more suitable than other biometric identification in certain environments. If one has a worn or injured fingerprints or wear gloves, the UltraMatch is better than fingerprint devices.
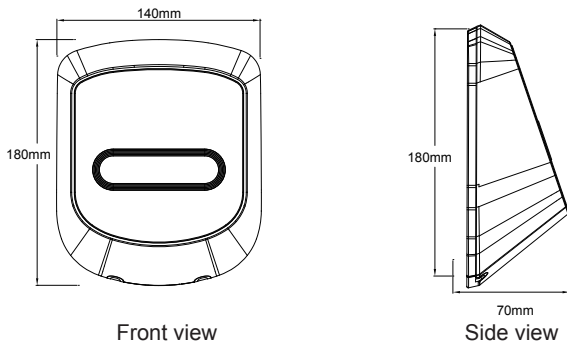
Sunglass   Glass   Veil   Mask

Features

Iris identification reader

Wiegand in and out

Webserver convenient for register and configuration
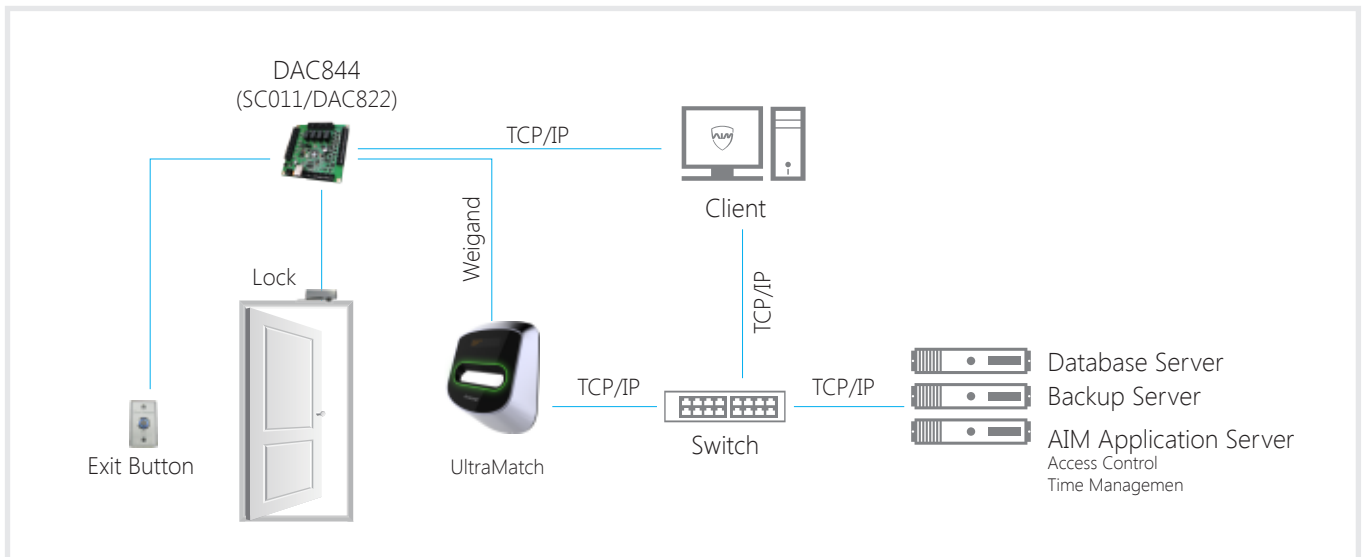
Upload and download through TCP/IP

Tamper alarm output

Dimensions

140mm

180mm

Front view

180mm

70mm

Side view

Specifications

Item	Description
User Capacity	150
Log Capacity	50000
LCD Area	128mm x 32mm
Camera	Single
Identification Mode	Iris, Card
FAR	≤0.1%
Identification Time	≤1s (1:150)
Web Server	Y
Tamper Alarm	Y
Identification Distance	25cm
Identification Ratio	≥99％
Communication Interface	TCP/IP,AP
Power Supply	DC 12V

Network Configuration

DAC844
(SC011/DAC822)

TCP/IP

Weigand

Client

TCP/IP

Lock

TCP/IP

TCP/IP

Switch

Database Server
Backup Server
AIM Application Server
Access Control
Time Managemen

Exit Button

UltraMatch

Anviz Intelligent Management

AIM is a software platform available for all Anviz products including time and attendance, access control, smart lock and distributed access controller. It provides remote control, network manage and mobile solutions for different users.

- Individual reports to manage users, work hours, tardiness, absence and overtime
- Group and time zone setting, access time restriction by access group setting
- Wiegand input and output setting, real time monitoring
- Compatible with payroll software such as PAYCHEX, ADP, QuickBooks, etc
- Flexible company department setting

ANVIZ ®

Intelligent . Security

UK Office

Portugal Office

China Office

US Headquarter

HK Office

Argentina Office

About Anviz

Founded in 2001, Anviz is a global leader in the field of intelligent security including Biometric, RFID and Surveillance. Cutting edge R&D, ISO certified manufacturing and global brand recognition provide our partners with the fast track to success!

Anviz is at the forefront of biometric, RFID, and surveillance technologies. Through constant R&D, ISO certified manufacturing and global brand recognition, Anviz is an industry leader. Producing high-quality, cost-effective security solutions have helped amass a global client base of over 60 million customers in over 100 countries.

For more information, visit www.anviz.com, or email us press@anviz.com.