

INTEGRATED MODULE PRODUCT

INTEGRATED MODULES MAKE APPLICATIONS MORE FLEXIBLE



www.anviz.com

Fingerprint Module

SM3000 & EVK(optional fingerprint module)

SM3000 represents a new generation fingerprint module by Anviz. It boasts a powerful 1.0GHz CPU and embedded Linux, that empowers the worlds' fastest authentication and supports multiple interfaces including RS232 and USB2.0 that allow high-speed data transfer. And with Evaluation Kit system to enable users to evaluate the core functionality of standalone modules quickly and easily.

SM3000 Fingerprint Sensor Sensing Area Resolution(dpi) FP Capacity Verification Mode FAR FRR Verify Speed Comm. Power Size	Anviz Optional AFOS Sensor 22.0mmx18.0 mm 500 3,000/5,000/8,000 1:1,1:N <0.0001% <0.001% <1s(3000FP) TTL(57600), URAT,USB 3.6~5V ±0.3 21*55*25mm (W/H/D)	EVK Comm. I/O On-Board UI Operation Access I/O Power	USB, RS485,RS232 3 LEDs & Buzzer 12 Number Keypad, Enroll&Deletebutton Relay output, Wiegand output 12V
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ASF Series Module(Anviz Semiconductor Fingerprint Sensor)

Anviz Semiconductor Fingerprint module (ASF) is the large active area allows stable imaging output, It relies on the Anviz independent research and development BioNANO core algorithm chipset mounted on a small printed circuit board for seamless hardware integration. AFS series fingerprint module with high precision integrated, low power consumption, anti-interference and high velocity can be wide range of products such as notebooks, tablets, tokens, time and attendance terminals, and access control products such as door locks and safes.

Picture			
Model	ASF-1011	ASF - S1110	ASF - C014
Sensing area Pixels Resolution(dpi) Mechanical durability FP Capacity Verification Mode FAR FRR Verify Speed Comm. Power Scan mode current draw Standby mode current draw	14.0mmx11.0 mm 192*192 508 >100 thousand 100 1:1,1:N <0.001% <1% <1s(100FP) UART(57600), USB 1.1 3.3±0.3 (V) <40(mA)/VDD <5(uA)/VADD 8KV to 15KV	11.0mmx10.0 mm 192*192 508 >100 thousand 100 1:1,1:N <0.001% <1% <1s(100FP) UART(57600), USB 1.1 3.3±0.3 (V) <40(mA)/VDD <5(uA)/VADD 8V/t to 15V/	Φ14.6mm 192*192 508 >100 thousand 100 1:1,1:N <0.001% <1% <1s(100FP) UART(57600) 3.3±0.3 (V) <40(mA)/VDD <5(uA)/VADD 8KV/to 15KV/
Size	33.0mmx20.0mmx2.83mm	15.4mmx14.7mmx2.83mm	Ф19.5.mm*3.6mm

USB Fingerprint Module(Anviz Semiconductor Fingerprint Sensor)



U-Bio Sensor Sensing Area Resolution(dpi) Enroll Time Image Read Time FAR FRR Comm. Power

Size(W/H/D)

Anviz AFOS Sensor 22.0mmx18.0 mm 500 <1s <60ms <0.0001% <0.001% USB, Optional BT DC 5V 65*74*75mm



Sensing Area Resolution Enroll Time FAR FAR FRR Comm. Power Size(W/H/D)

M-Bio

Sensor

Anviz AFOS Sensor 22.0 x 18.0 mm 500 dpi <1s 13.56Mhz Mifare <0.0001% <0.001% USB, Optional BT DC 5V 25x55x25mm

🗣 Face Module

Visible light Face Detection & Capture Module (Face View)



Key Features

- High Definition up to 4M
- Embedded intelligent algorithm, support face detection, Face automatic capture, support face Motion detection and capture
- Super Wide Dynamic Range
- Broad-Band Anti-Refection Optical Glass Window

FaceView is a face capture module designed for people's entrance areas which based on HD cameras. The integrated design of heat dissipation, dustproof and waterproof, simple and efficient, provides a more reliable and stable installation method. Its ultra-WDR, excellent imaging technology in the backlight environment provides the perfect face image for complex outdoor environments.

- Support minimum 20 pixels to face detection and capture
- Support 10~1000M TCP/IP Network
- Support audio input/output
- Support alarm input/output
- Internal Standard Micro SD slot ,Support 128G Memory

IP67 Design and a Wide Temperature Range

The high level of IP67 and outdoor design strengthen the reliability of FaceView under harsh outdoor environment



Technical	Technical Specifications				
Hardware	Image Sensor Lens	1/3" CMOS 2.8-12mm(Φ14)	Interface	SD Card	Built-in SD card slot, supports Micro SD / SDHC / SDXC card (up to 64G)
	Focus	Support auto focus, remote zoom		Alarm	1 in/1 out
	Shutter Time	1/3~1/100000		Ethernet	RJ-45 (10/100/1000Base-T)RJ-45
	Iris	Auto Iris			(10/100/1000Base-T)
	Minimun Illumination	0.01 Lux (Color) / 0.001 Lux(B/W)		Audio	1 line in/1 line out
	Day/Night	IR-CUT		RESET	Support
Image	DNR	3D DNR	General	Operating Conditions	-30°C to 60°C (-22°F to 140°F)
		60HZ		Power Supply	DC 12V / POE
		main stream (2560×1440@20fps),		IR Range	<70M
	Frame rate	sub stream (704×576@30fps)		Power Consumption	<12W
		50HZ		Weight	1066g
		main stream(2560×1440@20fps),			
		sub stream (704×576@25fps)			
	WDR	Super Wide Dynamic Range			
	Image Settings	Rotate Mode(mirror, flip), Saturation,			
		Brightness, Contrast, Sharpness			
		adjustable by client software or web browser			
Function	Smart Alarm	Motion detection, mask detection, audio anomaly detection, Network disconnect, IP address conflict,			
		Storage exception			
	Face Capture	Support			
		TCP/IP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,			
	Transfer Protocol	DDNS,RTP,RTSP,RTCP,PPPoE,NTP,UPnP, SMTP,SNMP			
	Interface Protocol	ONVIF, GB/T28181			

Smart Face Capture

Faceview uses a stepper motor lens, to make sure the minimum 20 pixels of face can be detection and capture. And keep the face image store in the device or send out by network in real time.



Face Module

Face all in one Module



Face all in one module not only face verification also include fingerprint, RFID and Password verification. It is adopts Embedded Linux System and Anviz the latest hardware platform. The face all in one module can be wide range of products such as Time attendance and Access Control Device.

Technical Specifications

Capacity Inferface	Card Capacity Log Capacity Comm.	500 50,000 RS485, Mini USB Slave, TCP/IP, Wiegand Out	Hardware	Fingerprint Sensor Scan Area Resolution Card Reader Module Operating Voltage Temperature	Anviz AFOS Sensor 22mm*18mm 500 DPI EM RFID, Optional Mifare DC 12V -13°F/-25°C~158°F/70°C
	1/0	2 Relays Output, Door Open Sensor			
Feature	Identification Mode Identification Time Display Camera Verify Distance PoE	FP, Face, Card, Password <0.5S 3.2 Inch TFT LCD Touch Screen Dual Cameras 30-50cm Standard IEEE802.3af			

Live Face Detection Moudle



Live Face Detection Moudle is Anviz new infrared face detection technology adopts two cameras. Both with infrared camera and HD color camera. The Live face Detection moudle can effectively prevent the deception of photos or pictures and combined with Anviz independent research and development BioNANO core algorithm can be make a face face verification system.

Technical Specifications

Dual Camera 3MP & 1.3MP (B/W) Frame Rate 30fps 90° Angel of View WDR WDR Illumination 0.01 Lux Live Detection Infrared detection Comm. USB SDK Windows & Android Power DV 5V, 2A Size(L/W/H) 40.4 x 22.8 x 31.8 mm

UltraMatch Iris Recognition Products

UltraMatch series are contain all of Anviz Iris recognition system. 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.

Fast Comparison

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

Contactless Experience

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



Visual Indication

Three color LED indicators prompt the user to place their eyes at the correct distance from the device, making the user experience easy and comfortable.

Wide Applicability

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



Dual Iris Recognition System (s2000/s3000)

Picture			
Model Type	S2000	\$3000	
Firmware Platform	Dual Core 1.0GHz	Quart Core 2.0GHz	
OS	Linux	Android	
Iris Capture	Dual Iris Capture		
Iris Capture Range	7.09 - 9.45 in.(180 - 240 mm)		
Capture Time	<1s		
Number of user	1,000 ~ 2,000	10,000	
Log Capacity	100,000	200,000	
FAR	≤1/1,000,000,000,000		
Recognition Mode	Iris, Card		
Card Read Module	EM ID Card Reader(125KHz)	Standard 13.56Mhz Mifare	
LCD Area	2.23 in.	5 in. Touch Screen	
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	Wiegand 26/34, Relay Output, Door Sensor, Exit Button	
Communication	TCP/IP	TCP/IP, RS485, RS232	
Operating Temperature	-20°C to 50°C		
Humidity	0% to 90%		
Power Supply	12V/2A		
Operating Environment	Indoor		
Dimensions (W x H x D)	7.09 x 5.55 x 2.76 in.(180 x 141 x 70 mm)	9.76 x 8.22 x 1.69 in.(209*248*43 mm)	
	1.00 X 3.35 X 2.70 III.(100 X 141 X 70 MM)	9.76 X 8.22 X 1.69 IN.(209*248*43 mm)	

D2200(USB Iris Capture & Recognition Module)

D2200 is a stand-alone optical iris capture and transmission device. The acquisition instrument uses Anviz BioNANO core algorithm with USB2.0, it can be compatible with Windows, Linux and Android Operation System and it is very convenient to add personnel iris registra tion function in the application program, which is perfectly reflected in ease of use and applicability.



Dual Cameras capture 3 LEDs Distance and Verify Prompt 160 ~ 200 mm Capture Distance Power Over USB and communcaiton Standard ISO/IEC 19794-6: 2005 iris image Human Safety IEC/EN 62471 infrared standard Anviz BioNANO SDK and Utilities Support Widows/ Linux & Android Single / Dual iris verify Capture time <3s Verify Speed <1s Size 105mm*43mm*26mm

Core Technology

BioNANO[®] V11

Core Algorithm

Fingerprint - Facial - Iris



- Suitable for both wet and dry fingers
- Automatically heals the broken lines in fingerprint images
- Extraction of features in worn fingerprints
- Fingerprints template auto update
- Anviz Hermetic AFOS Fingerprint Sensor Waterproof, dust proof and scratchproof IP65 fingerprint sensor
- · Fingerprint Template Auto Update Auto update means the previous lower quality fingerprint template will be automatically replaced by the new higher guality one during fingerprint verification
- High Speed Matching Incredibly fast matching algorithm will complete a 1:1 match less than 0.5 sec and 1:3000 users less than 1 sec.
- Living Recognition Living recognition can get fingerprint data from beneath surface of the skin so that dryness or even damaged or worn fingers create no problems for reliable reads.
- SC SDK

Anviz Software Development Kits (SDKs) offer a device communication, template extraction, access control setting and more. They support multiple platforms and language interfaces. Complete with APIs, Anviz SDKs are fully documented and come with sample applications for as-is or modified use.

SC EVK

Anviz provide Evaluation Kit (EVK) for OEM Modules. The EVK offers Mini USB, RS485, RS232, Wiegand, Relay output and support Standalone and USB connection work mode.



Non-contact

BioNANO Core Algorithm

- · Fast speed and easy to use
- Suitable for different lux application

and is now the algorithm used in all Anviz biometric products.

Anviz biometric technologies are widely used in our fingerprint identification, face

recognition and iris identification products. As one of our key technological achievements, the biometric identification algorithm BioNANO, was developed in house by our engineers



- No way to fake, highest security
- · Most accurate, convenient, and reliable
- Touchless verification, most sanitary
- Multi-communication Mode TCP/IP, USB device, RS485, Wiegand, GPRS, WIFI and so on.
- Webserver Visit the device directly via the network. Setup and search the record from the device.
- Wide Temperature Circuit Design Wide temperature circuit will ensure the device is suitable for different complex environment.
- Dual Storage Dual storage ensures the data is more secure.
- BioNANO SDK

BioNano SDKs offer a full spectrum of capabilities, including image capture, template extraction, template matching, identification and more. BioNano SDK support multiple platforms and language interfaces.

BioNANO EDK

Make the Anviz products with greater potential application, Anviz provide the Embedded development kits (EDKs). The Developers extend application base on Anviz product directly. The EDKs support Anviz Linux and WinCE terminal.

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

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