

UBIO ALPETA ^{new}

Web-based Integrated Security Solution



Features



Standard WEB API
• Internal business system and other security solutions provide standardized WEB API



Innovative System Operating Speed
• 1,000,000 templates can be authenticated in less than 0.4 second



Supports connection with VMS, BMS and other security systems



Attendance Management Service
• Flexible work schedule, commute record, work rule setting and more applications

UNIS 4.5

Integrated Security Management Software



Features



Terminal Management
• Manages terminal registration, administrator designation and terminal configuration.
• Remote terminal/entry control



User Management
• Manages employees and visitors
• Can assign user and admin based on authority level



Log Management
• Provides access history, modified history and event history on the terminal



E-Map
• Display real-time location icon and terminal error icon



Scan Qr code
www.ctiresources.com.my



UBIO-X FACE ^{new} with thermal module ^{optional}

Face Recognition Terminal



Features

- Improved Security & Accuracy**
 - Liveness detection
 - Anti-spoofing attacks against photos, videos & 3D masks
- Face Recognition**
 - Face authentication at a distance up to 3 metre
- Easy Face Enrolment**
 - Use device camera or mobile phone
 - Upload existing picture

- Integration with Thermal Module**
 - Fever detection sensor (Thermopile) type
 - Measuring temperature range 30 °C ~ 45 °C
 - Measure user's body temperature
 - Deny access for high temperature and the log data is recorded in the server
- Mask Detection**
 - Can detect and alert user not wearing mask
 - Face authentication WITHOUT mask on

UBIO-X PRO2 ^{new} with thermal camera ^{optional}

Multi Biometric Face & Fingerprint Recognition Terminal



Features

- Improved Security & Accuracy**
 - Liveness detection
 - Anti-spoofing attacks against photos, videos & 3D masks
- Face Recognition**
 - Face authentication at a distance up to 3 metre
- Easy Face Enrolment**
 - Use device camera or mobile phone
 - Upload existing picture
- 5" Color Touch LCD**
- Integration with Thermal Camera**
 - Micro-Bolometer (uncooled) detector type
 - Measuring temperature range 30 °C ~ 45 °C
 - Measure user's body temperature
 - Deny access for high temperature and the log data is recorded in the server

UBIO-X FACE Premium

Walk-Through method 8" Premium Face Recognition Terminal



Features

- Walk-Through method Face Recognition at a distance up to 3M**
- Mask Detection Function (3step)**
- Integration with Fingerprint and QR Sensor UBIO-X FQR (optional)**
- A wide range of authentication options including face, mobile access, fingerprint, QR code and more**
- Anti-Spoofing attacks against photos, videos & 3D mask**
- Easy Face Enrollment, Using Camera or Phone Picture**
- Integration with Thermal Sensor (optional)**

UBIO-X SLIM ^{new}

Premium Card & Fingerprint Recognition Terminal



Features

- Patented Live & Fake Finger Detection**
 - Optical sensor and algorithm detect fake fingers (paper, film, silicone, rubber and gelatin)
- 5" Color Touch LCD**
- Large Memory Capacity**
 - 500,000 users
 - 10,000,000 logs
 - 50,000 picture storage
- Embedded Card Reader**
 - Smart/RF Card option

UBIO TABLET5 ^{new}

5" Portable Fingerprint Terminal



Features

- Portable Time Attendance and Customer Management Solution**
- Built-in Camera**
 - 5MP (Rear), 2MP (Front)
- 5" Color Touch LCD**

AC-2100 PLUS

IP65 Dust/Water Resistance/Fingerprint and Card Terminal



Features



Patented Live & Fake Finger Detection
• Optical sensor and algorithm detect fake fingers (paper, film, silicone, rubber and gelatin)



RS485 OSDP Support



IP65 Dust / Water Resistance
• Outdoor installation



Portable Unit and Easy Installation

AC-2000

IP65 Fingerprint Terminal with Camera & Bluetooth Mobile Key



Features



Patented Live & Fake Finger Detection
• Optical sensor and algorithm detect fake fingers (paper, film, silicone, rubber and gelatin)



Bluetooth Support
• Bluetooth-enabled mobile key solution
• UNIS-B PLUS : App for administrators
• V-CARD : App for mobile key users



Open Supervised Device Protocol (OSDP)
• Communication protocol support that allows peripheral devices to interface with control panels or other security mgmt. systems



IP65 Dust / Water Resistance
• Outdoor installation

AC-2200/2200H

IP65 Fingerprint Terminal with Camera & Bluetooth Mobile Key



[Intuitive GUI]

Features



Patented Live & Fake Finger Detection
• Optical sensor and algorithm detect fake fingers (paper, film, silicone, rubber and gelatin)



Bluetooth Support
• Bluetooth-enabled mobile key solution
• UNIS-B PLUS : App for administrators
• V-CARD : App for mobile key users



Embedded Digital Camera



Open Supervised Device Protocol (OSDP)
• Communication protocol support that allows peripheral devices to interface with control panels or other security mgmt. systems



IP65 Dust / Water Resistance
• Outdoor installation

AC-5000 IK

IP65 Fingerprint / Card Terminal



Features



Patented Live & Fake Finger Detection
• Optical sensor and algorithm detect fake fingers (paper, film, silicone, rubber and gelatin)



IP65 Dust / Water Resistance
• Outdoor installation



IK09 Vandal-proof Structure



Support Multi Card Support
• 125KHz-EM, HID Prox, HID iClass, 13.56MHz Smart card

AC-5100

Fingerprint / Card Terminal with Camera & Bluetooth Mobile Key



Features



Patented Live & Fake Finger Detection
• Optical sensor and algorithm detect fake fingers (paper, film, silicone, rubber and gelatin)



IP65 Dust / Water Resistance
• Outdoor installation



IK09 Vandal-proof Structure



Support Multi Card Support
• 125KHz-EM, HID Prox, HID iClass, 13.56MHz Smart card



Open Supervised Device Protocol (OSDP)
• Communication protocol support that allows peripheral devices to interface with control panels or other security mgmt. systems



Bluetooth Support (AC5100)
• Bluetooth-enabled mobile key solution
• UNIS-B PLUS : App for administrators
• V-CARD : App for mobile key users



Built-in Camera (AC5100)
• Capture images based event log data

FOH02

Fingerprint Identification / USB Fingerprint / Card Reader



Features



Patented Live & Fake Finger Detection
• Optical sensor and algorithm detect fake fingers (paper, film, silicone, rubber and gelatin)



International Standard Image Format and Interface
• ISO/IEC 19794-2:2005, ISO/IEC 19794-4:2005
• ANSI INCITS 378-2004
• WSQ Fingerprint Image Compression
• NFIQ(NITS Fingerprint Image Quality)



Rapid and Accurate Authentication



Compatible with Access Control S/W UNIS
• Fingerprint or card can be added / deleted from the Software



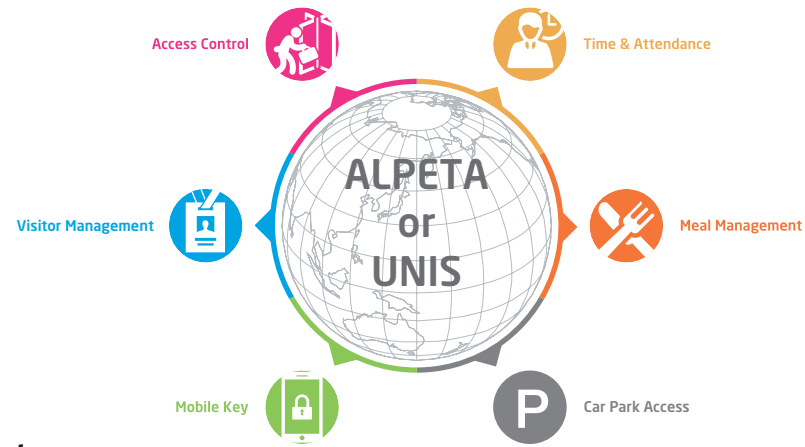
Fingerprint or Card Authentication
• FOH02 : Fingerprint
• FOH02RF : Fingerprint & 125KHz proximity card
• FOH02SC : Fingerprint & 13.56 MHz smart card



Fingerprint Data Storage on Smart Card



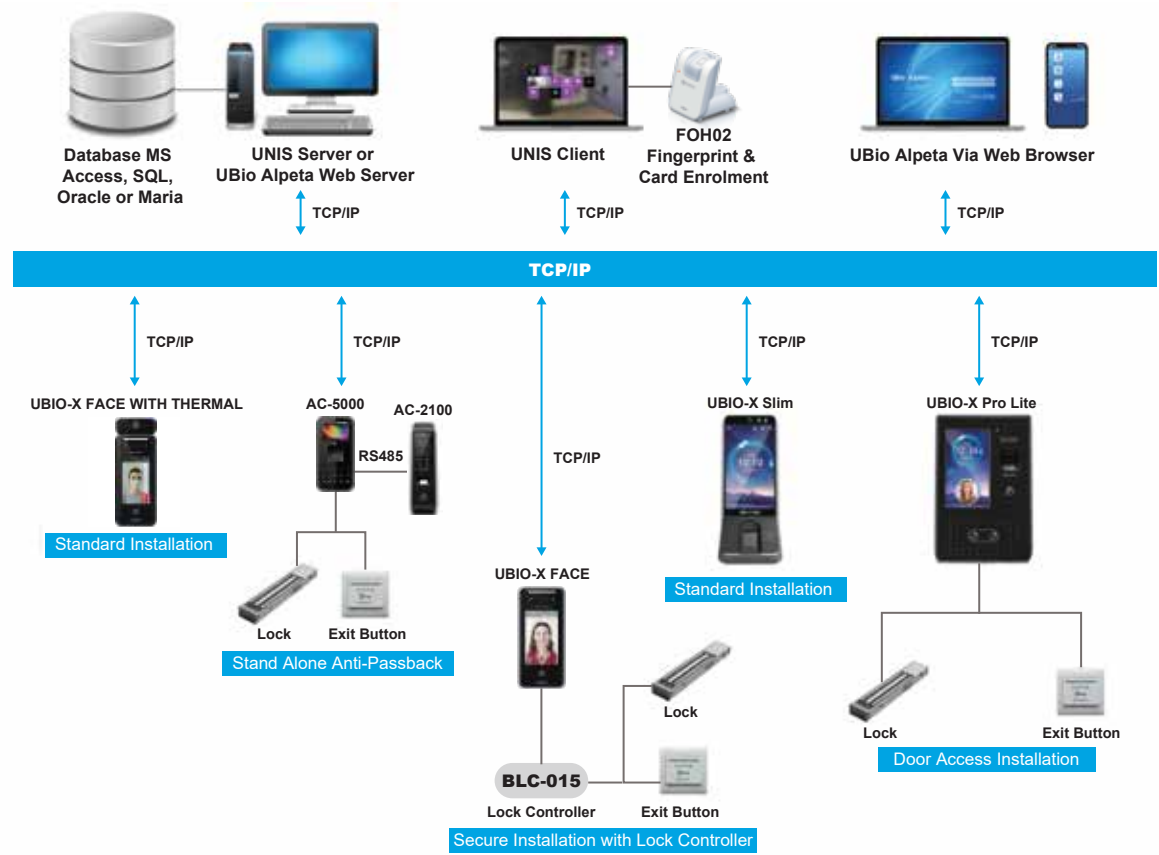
Integrated Security Software



Features

- GUI** Powerful GUI for both Access control and Time & Attendance
- F/W** Firmware Upgrade
- Mobile App**
- Superior Fingerprint Algorithm**
- ERP** Interoperable with ERP and Groupware Systems
- MDB** MDB Backup
- Multi-Terminal Management from the Server**
- Easy DB Compatibility via ODBC-MDB, MS-SQL, Oracle**
- Editable Program Text (Excel file)**

System Configuration



Terminal Specifications

Model		UBIO-X FACE	UBIO-X FACE PREMIUM	UBIO-X PRO 2	UBIO-X SLIM	UBIO-TABLET 5	AC-5000 IK	AC-5100	AC-2000	AC-2100 PLUS	AC-2200
Product image											
Authentication Method		Biometric	Biometric	Biometric	Biometric	Biometric	Biometric	Biometric	Biometric	Biometric	Biometric
Dust / Water Resistance		IP65	IP55	X	X	IP65	IP65	X	IP65	IP65	IP65
Memory	Max Users	500,000 (Card) 20,000 (Face)	500,000 (Finger) 100,000 (Face)	500,000 (Finger) 20,000 (Face)	500,000	1,500	20,000	20,000	1,500	1,500	1,000 / 5,000
	Fingerprints (Templates)	X	X	500,000	200,000	1,500	20,000	20,000	1,500	1,500	1,000 / 5,000
	Logs	10,000,000	10,000,000	10,000,000	10,000,000	51,000	64,000	64,000	51,000	100,000	100,000
	Images	20,000	20,000	20,000	50,000	X	X	17,000	X	X	10,000
Communication	with Server	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP
	Other	USB	USB	SD Card	USB	Bluetooth	X	Bluetooth	Bluetooth	USB	Bluetooth / USB
	Wireless LAN (Wi-Fi)	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	X	X	X	OPTIONAL	X	X
	Wiegand OUT	0	0	0	0	0	0	0	0	0	0
	RS232	0	0	0	0	X	0	0	X	X	X
	RS485	0	0	0	OSDP	OSDP	OSDP	OSDP	OSDP	OSDP	OSDP
Display	Wiegand IN	0	0	0	0	0	0	0	0	0	0
	LCD	5" Color Touch	8" Color Touch	5" Color Touch	5" Color Touch	X	2.8" Color	2.8" Color	X	1.77" Color LCD	1.77" Color LCD
Backlight		0	0	0	0	X	0	0	X	0	0
Embedded Camera		0	0	0	0	X	X	0	X	0	0
Card	125kHz-EM	0	0	0	0	0	0	0	0	0	0
	HID Prox	0	0	0	0	0	0	0	0	0	0
	HID iClass	X	X	X	X	0	0	0	0	0	0
	13.56MHz Smart Card	0	0	0	0	0	0	0	0	0	0
Keypad		Touch Screen	Touch Screen	Touch Screen	Touch Screen	X	0	0	X	X	X
Function Keys		SOFT	SOFT	SOFT	SOFT	X	10	10	X	4	4
Door Phone		0	0 (VoIP)	0 (VoIP)	0 (VoIP)	X	X	X	X	X	X
Platen Area		0	X	X	16.4 x 19.4 mm	16.6 x 21.6 mm	15 x 17 mm	15 x 17 mm	14.8 x 17.9 mm	14.8 x 17.9 mm	14.8 x 17.9 mm
Resolution		0	X	X	500 dpi	500 dpi	500 dpi	500 dpi	500 dpi	500 dpi	500 dpi
Authentication Speed	1 : 1	< 0.2 sec	X	< 0.2 sec	< 0.5 sec	< 0.2 sec	< 0.5 sec	< 0.5 sec	< 0.2 sec	< 0.2 sec	< 0.5 sec
	1 : N (1,000)	< 1 sec	< 1 sec	< 1 sec	< 1 sec	< 1 sec	< 1 sec	< 1 sec	< 1 sec	< 1 sec	< 1 sec
Dimension (W) x (H) x (D) mm		96 x 211 x 35.3	143.3 X 289.5 X 23.8	149.7 x 208 x 56.4	80 x 195.6 x 23.5	88.5 x 197.5 x 26.6	88 x 175 x 43.5	88 x 175 x 43.5	58 x 187.9 x 51.6	58 x 187.9 x 51.6	58 x 187.9 x 51.6
FRR / FAR		0.1% / 0.0001%	N/A	0.1% / 0.0001%	0.1% / 0.0001%	0.1% / 0.0001%	0.1% / 0.0001%	0.1% / 0.0001%	0.1% / 0.0001%	0.1% / 0.0001%	0.1% / 0.0001%
Operating Temperature		-20 ~ 60°C									

Contactless Solution for a New Era with Liveness Face Detection and Anti-Spoofing Function.

UBio-X Face meets the needs of user liveness detection even wearing a mask, and prevents attempts with fake faces such as 3D face mask, face photo, and face printed paper.



Patented Live & Fake Fingerprint Detection Technology

Typical Fake Fingerprints



What is a Fake Fingerprint

It is an artificial fingerprint made from silicone, rubber, paper, gel, or film which is used to defeat common biometric readers.

Alternative Fingerprint, Terminal Manufactures

Most biometric sensors can be defeated using a variety of commonly known methods. This renders most biometric technology useless as the level of security does not protect businesses from the financial loss through fraudulent clockings, nor does it provide the level of security required by government airport military and commercial organizations.

VIRDI Fingerprint Sensors

UNIONCOMMUNITY's patented optical fingerprint sensor incorporates both LIVE and FAKE finger detection using a combination of human capacitance sensor, infrared light and algorithm.

Why VIRDI

VIRDI COMPETITIVE ADVANTAGE

- 
Improved Security & Accuracy
 - Liveness detection
 - Anti-spoofing attacks against photos, videos & 3D masks
- 
Easy Face Enrolment
 - Use device camera or mobile phone
 - Upload existing picture
- 
Integration with Thermal Camera
 - Micro-Bolometer (uncooled) detector type
 - Measuring temperature range 30 °C ~ 45 °C
 - Deny access for high temperature and the log data is recorded in the server
- 
Mask Detection
 - Can detect and alert user not wearing mask
 - Face authentication WITHOUT mask on
- 
Walk-Through
 - Face Recognition at a distance up to 3M
- 
Transaction Methods set by User:
 - Each user can have their transaction methods individually assigned, i.e. Finger only, Pin + Finger, Card or Finger etc. There are 10 combinations.
- 
Live and Fake Fingerprint Detection Technology:
 - Four separate technologies and methods are employed to ensure the terminals do not scan and identify fake fingerprints made of paper, plastic, rubber, silicone, gelatin etc.
- 
Optical Sensor (Patented):
 - Patented sensor with a very low level of distortion and a hardened surface, ideal for harsh environments.
- 
Templates Stored in Terminal Memory and/or on the Server:
 - Improve performance and reduce housekeeping by identifying local users on the terminal and verify visitors and global users on the server.
- 
Push Technology:
 - In order to minimize network traffic and provide a "real-time" update of transactions, the devices will "Push" their transactions to the server as they occur. While templates are being sent to the Viridi devices, users can continue to transact.
- 
IP65 Dust / Water Resistance
 - Outdoor installation
- 
Terminal Management
 - Manages terminal registration, administrator designation and terminal configuration.
 - Remote terminal/entry control
- 
User Management
 - Manages employees and visitors
 - Can assign user and admin based on authority level
- 
Log Management
 - Provides access history, modified history and event history on the terminal
- 
Innovative System Operating Speed
 - 1,000,000 templates can be authenticated in less than 0.4 second
- 
OSDP Support :
 - Open Supervised Device Protocol is a communications protocol developed by the Security Industry Association (SIA) that allows peripheral devices such as card readers and biometric readers to interface with control panels or other security management systems.