

เสริมความปลอดภัยที่เหนือระดับ  
ยืนยันตัวตน รวดเร็ว แม่นยำ ฟังก์ชันหลากหลาย



ประสบการณ์มากกว่า  
**22 ปี**



ยอดขายมากกว่า  
**10,000+ เครื่อง**



ศูนย์บริการ  
**12 แห่งทั่วประเทศ**



# BIOMETRIC CATALOG

**HI-TOP TECHNOLOGY CO.,LTD.**  
BIOMETRIC โดย บริษัท ไฮ-ท็อป เทคโนโลยี จำกัด

**HI-TOP**  
TECHNOLOGY CO.,LTD.

We're Always the First to See You

# UBio-X Face Premium



- Premium Performance, Powerful Protection, Infinite Possibility
- World's most advanced Walk Through 8" Face Recognition Device



High Performance  
Multi Authentication



Multiple Authentication  
Method



Access & Virus Control  
for safer perimeter



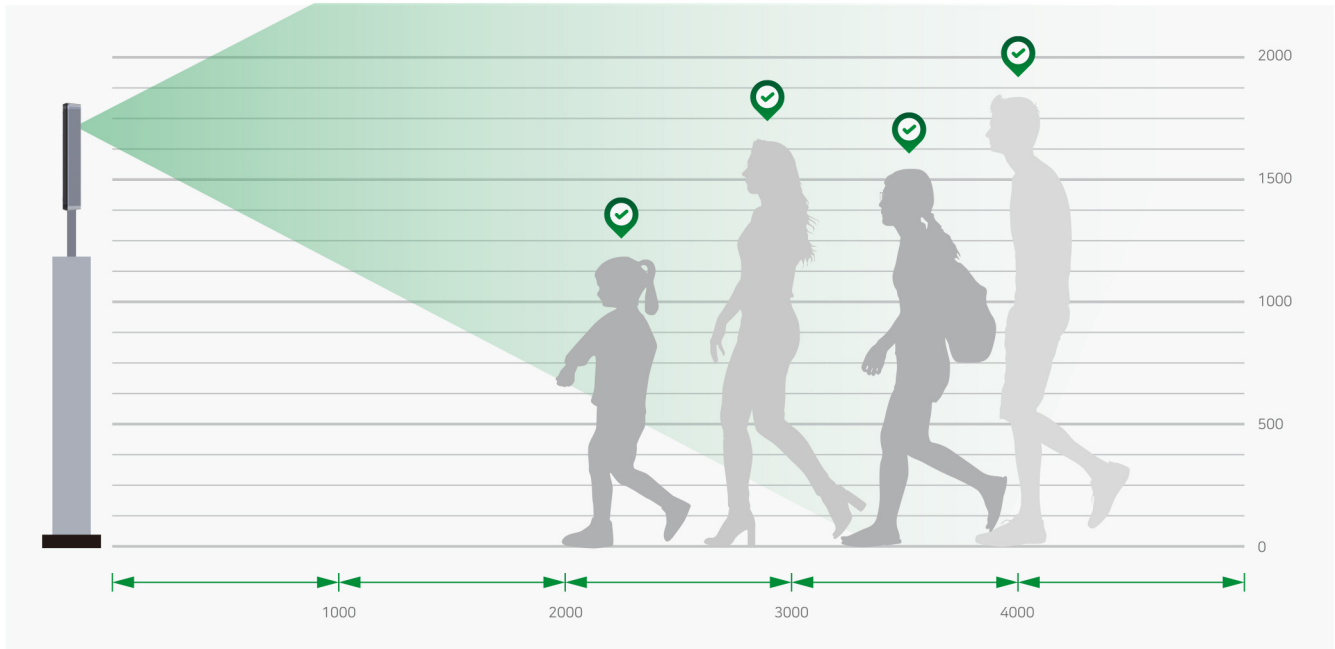
Secure Data Protection  
& Encryption



## High Performance Multi Authentication

UBio-X Face Premium is equipped with a high-performance face recognition algorithm to quickly recognize the user's face accurately, even from a distance of up to 4m.

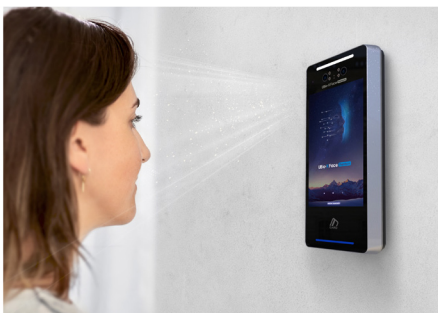
Through the use of multi mode, 4 people can be authenticated at same time and can be used in situation that requires a large number of simultaneous entry.



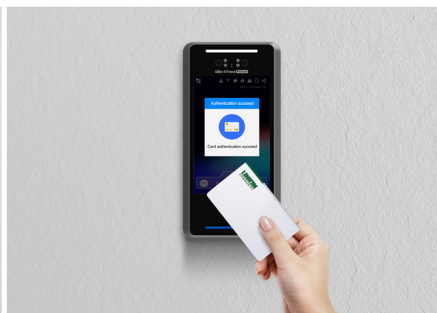
## Support Multiple Authentication Method

By integrating with the XScan-FQ, XScan-FP, various authentication methods such as face, fingerprint, mobile key, QR code, password and card can be selected.

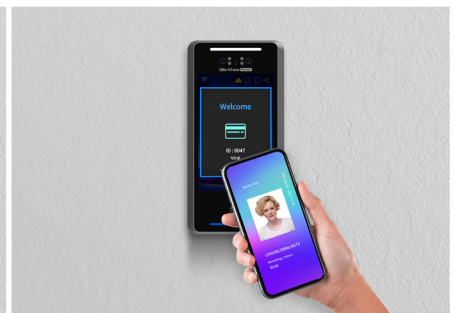
By utilizing 'and' & 'or' authorization method, it is able to select and use the authentication method according to the customer's needs.



FACE



CARD



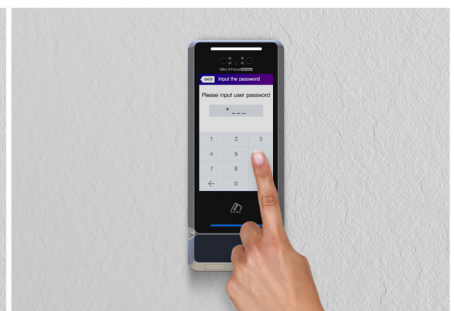
MOBILE KEY



FINGERPRINT



QR Code



PASSWORD



## Access & Virus Control for Safer Perimeter

According to contactless solution such as mask detection (3 levels), contactless visitor & event management and remote user registration can prevent virus infection.

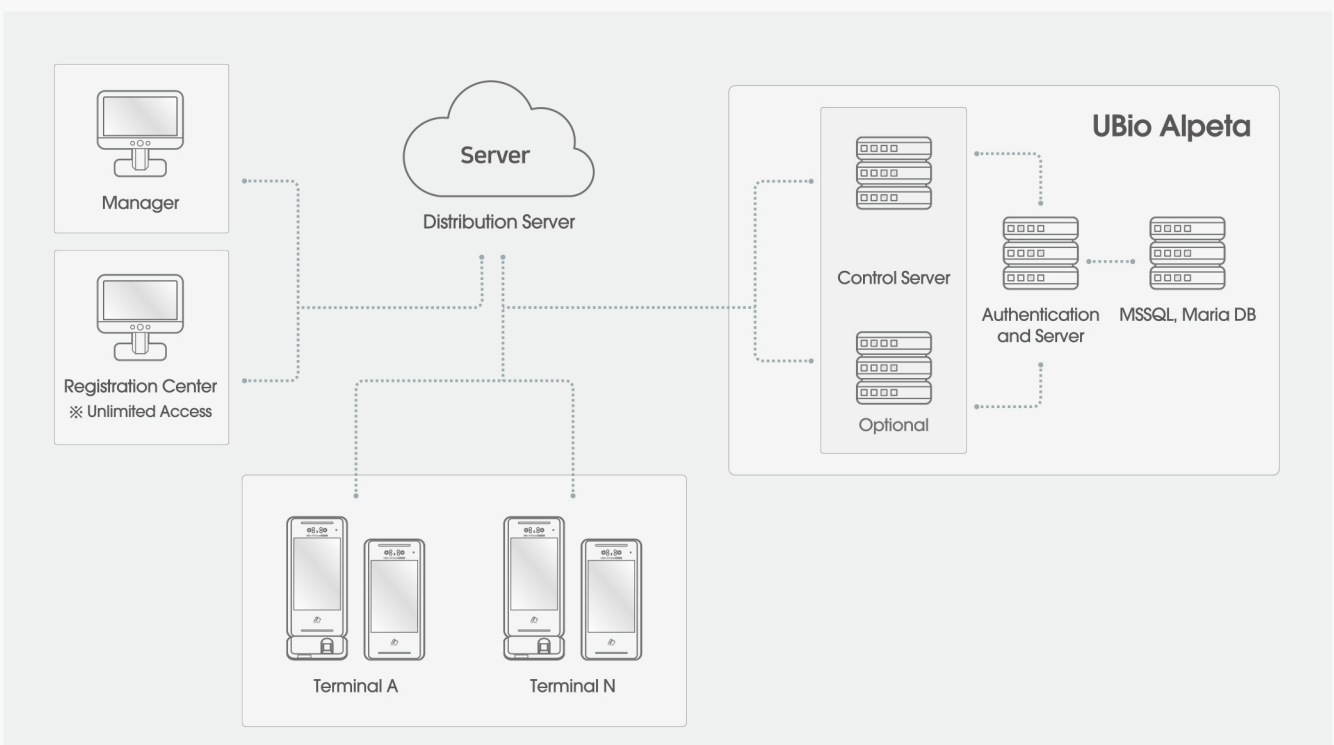
Through the integration of Thermal Camera sensors, UBio-X Face Premium automatically measures body temperature and protect the perimeter 24/7.




## Secure Data Protection & Encryption

All biometric information is protected based on a technology that encrypts and saves as the minutia point used in the algorithm engine without saving the original image.

## SYSTEM CONFIGURATIONS



## SPECIFICATION

Model Name		UBio-X Face Premium	
Model Image			
General	CPU		cortex A53 Quad Core 1.8GHz
	NPU		O (2.3 TOPS)
	OS		Android 11
	MEMORY	Flash	16G eMMC
		RAM	4G (LPDDR4)
	LCD	type	8" (TFT IPS LCD)
		Resolution	800 X 1280
	Speaker		Audio Codec 1W
	MIC		Waterproof MIC
	Operating Temperature		-20℃~60℃
	Operating Humidity		0% ~ 90% non-condensing
	Weight		980g
	Dimension (W x H x D) mm		143.3 X 289.5 X 23.8
	Temper		O
IP Rating		IP55	
Certificates		KC / CE / FCC	
Biometrics	Face	Recognition Distance	0.5M~4M
		Matching Speed	<1 sec
		Liveness Detection	0.5M ~ 2M
	FingerPrint	Template	100,000
		Extractor / Matcher	MINEX certified and compliant
		Image Dimension	256*292 (12.6 *14.8 mm)
		Resolution	500 DPI
		Certification	Virtd, ISO 1974-2, ANSI-378
LFD		O	
RF	RF Read Range	EM	50 mm
		Smart Card	50 mm
		DESPIRE EV1 / EV2 / EV3	45 mm
	RF Option	FELICA	All in One
		125KHz EM	
		HID Prox	
		13.56MHz Smart Card	
		Mifare (Plus)	
		Felica	
		ISO14443 A/B	
		ISO 15693	
		DESPIRE EV1 / EV2 / EV3	
		HID iCLASS SE/SR/Seos	
Mobile Card	NFC		Support
	BLE		Support
QR	Image Sensor		640 X 480
	Symbolologies		1D / 2D
	FOV (H x V)		42° x 31.5°
UBio-X Key	Mobile Phone (IOS)		Iphone: IOS 10.0 or above / BLE4.2 or above
	Mobile Phone (Android)		Android 6.0 or above / NFC Supported Device
	Encryption		Azure Key Vault / AES-128
	Recognition Distance		10cm (difference in models)
Server Platform		On Premise / Cloud	
Capacity	Face (Based on one face Template per User)	1:N	30,000 (50,000 Option)
		1:1	100,000
		TAR	97.99%
		FAR	-
	FingerPrint (Based on two Fingerprint Template per User)	1:N	50,000
		1:1	500,000
		TAR	99.99%
		FAR	0.000001%
Event Log		10,000,000	
Picture Log		20,000	
Interface	ethernet		10/100M / 1000M 1Port
	RS-485		1 Port
	RS-232		2 Port
	Wiegand		IN/OUT 1Port
	Relay		2
	USB	USB 2.0	Host 1 Port
		USB 3.0	OTG 1 Port (C Type)
Power	Voltage		DC 15V~24V
	Current		Max 1.5A @DC15V

## Possible Integration

### Thermal-I2



Integration for measuring personnel temperature

### XScan-FQ



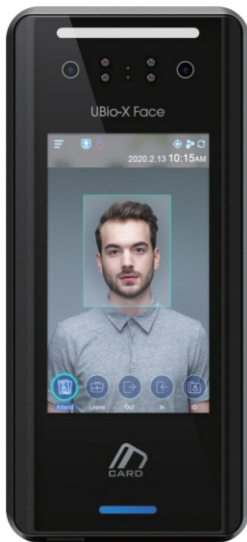
Support Fingerprint & QR Code Authentication

### XScan-FP



Support Fingerprint Authentication

# UBio Series



## UBio-X Face

### Easy Performance Face Terminal

- **Walk-Through method** Face Recognition at a Distance up to 3m
- **Liveness Detection** by distinguishing actual people
- **Anti-Spoofing** attacks against photos, videos & 3D masks
- Using Camera or Mobile Phone Pictures, **Easy Face Enrollment**
- **Mask Detection** Function
- **Fever Detection** combined with Face Recognition system
- High Speed Matching Algorithm  
Face 1:20,000 Templates < 1 sec
- Up to **20,000 (1:1 Face)**  
500,000 (1:1 Card)
- Up to **25,000 Lux**



## UBio-X Iris

### Advanced Multi Biometric Iris/Fingerprint Terminal

- Iris Recognition at a Distance up to **50cm**
- Built-in Camera for **Auto-Tilt Function**  
(Auto adjust depending on height)
- **Mask Detection** Function
- **Fever Detection** combined with Iris Recognition system
- High Speed Matching Algorithm  
Iris 1:40,000 Templates < 1 sec  
Fingerprint 1:100,000 Templates < 1 sec
- Up to **200,000 (1:1 Finger)(1:1 Iris)**
- **FBI PIV+FAP20** Certification (Fingerprint)
- Patented Fake Fingerprint Detection

## UBio Series



### UBio-X Pro2

#### High-End Multi-Biometric Face/Fingerprint Terminal

- Walk through (Non-cooperative) method for Face Recognition at a Distance up to 3m
- Liveness Detection by distinguishing actual people
- Anti-spoofing attacks against photos, videos & 3D masks
- Using Camera or Mobile Phone Pictures, Easy Face Enrollment
- Mask Detection Function
- Fever Detection combined with Face Recognition system
- High Speed Matching Algorithm  
Face 1:20,000 Templates < 1 sec  
Fingerprint 1:200,000 Templates < 1 sec
- Up to 20,000 Users (1Face/1User)
- Up to 500,000 Users (1Finger/1User)
- Up to 25,000 Lux
- Patented Fake Fingerprint Detection



### UBio-X Pro / UBio-X Pro Lite

#### High Performance Face/Fingerprint Terminal

- Collaborative close-up method for Face Recognition
- High Speed Matching Algorithm  
Fingerprint - 1:200,000 Templates < 1 sec  
Face 1:150,000 Templates < 1 sec (UBio-X Pro)  
1:35,000 Templates < 1 sec (UBio-X Pro Lite)
- Up to 500,000 Users (1:1 Finger)  
200,000 Users (1:1 Face)(UBio-X Pro)  
100,000 Users (1:1 Face)(UBio-X Pro Lite)
- Up to 30,000 Lux
- Latest Android-based intuitive GUI with 5" Touch LCD
- Patented Fake Fingerprint Detection

# UBio Series



## UBio-X Slim

### Slim & Premium Fingerprint/Card Terminal

- The World's Slimmest 13.4mm Optical Sensor
- Slim and Elegance Design Matches with any Environment
- High Speed Matching Algorithm  
Fingerprint 1:200,000 Templates < 1 sec
- Up to 100,000 Users (1:1 Finger)
- Patented Fake Fingerprint Detection



## UBio Tablet5

### Portable Fingerprint/Card Terminal

- The World's Slimmest 13.4mm Optical Sensor
- Compact Size with easy portability
- Built-in 2G, 3G, WCDMA 2100(Optional: 850/1900), 4G band in B1/B3/B7
- FBI PIV+FAP20 Certification
- NFC Card Support
- Built-in Camera
- Patented Fake Fingerprint Detection

# Thermal Modules



UBio-X Pro2 T12    UBio-X Face T12

## TE-Q2

### Contactless Thermal Camera

- Contactless Fever Detection System
- Possible to Link with Access Control System
- Integratable Terminal: UBio-X Face, UBio-X Pro2



UBio-X Pro2 TS    UBio-X Iris TS

## Thermal-i

### Contactless Thermal Sensor

- Contactless Fever Detection System
- Possible to Link with Access Control System
- Integratable Terminals: UBio-X Pro2, UBio-X Iris








UBio-X Face TS

## Thermal-i2

### Contactless Thermal Sensor

- Contactless Fever Detection System
- Possible to Link with Access Control System
- Integratable Terminal: UBio-X Face

## Access & Time Management

Model		UBio-X Face	UBio-X Iris	UBio-X Pro2	UBio-X Pro/Pro Lite	UBio-X Slim		
Product Image								
Authentication Method		Biometric	Biometric	Biometric	Biometric	Biometric		
Dust/Water Resistance		IP55	X	X	X	X		
Memory	Max Users	Card	(1:1)/(1:N)	500,000	200,000	500,000	500,000	
		Fingerprint (Base on one finger enrollment per user)	1:1	X	200,000	500,000	500,000	100,000
			1:N	X	50,000	100,000	100,000	100,000
		Face (Base on one finger enrollment per user)	1:1	20,000	Iris : 200,000	20,000	200,000 (UBio-X Pro) 100,000 (UBio-X Pro Lite)	X
	1:N		20,000	Iris : 20,000	20,000	30,000 (UBio-X Pro) 7,000 (UBio-X Pro Lite)	X	
	Templates	Fingerprint	1:1	X	400,000	1,000,000	1,000,000	200,000
			1:N	X	100,000	200,000	200,000	200,000
			MAX Templates per Finger	X	2	2	2	2
			MAX Finger per User	X	10	10	10	10
		Face	1:1	20,000	Iris : 400,000	20,000	1,000,000 (UBio-X Pro) 500,000 (UBio-X Pro Lite)	X
			1:N	20,000	Iris : 40,000	20,000	150,000 (UBio-X Pro) 35,000 (UBio-X Pro Lite)	X
	MAX Templates per User	1	Eyes : 2 User : 4	1	10	X		
	Logs		10,000,000	10,000,000	10,000,000	10,000,000	10,000,000	
	Images		20,000	20,000	20,000	20,000	50,000	
	Communication	with server		TCP/IP	TCP/IP	TCP/IP	TCP/IP	TCP/IP
other		USB	USB	SD Card	SD Card	USB		
Wireless LAN(Wi-Fi)		X	Optional	Optional	Optional	Optional		
Wiegand OUT		0	0	0	0	0		
RS232		0	0	0	0	0		
RS485		0	0	0	0	0		
Wiegand IN		0	0	0	0	0		
Display	LCD		5"Color Touch	5"Color Touch	5"Color Touch	5"Color Touch	5"Color Touch	
	Backlight		0	0	0	0	0	
Embedded Camera		Dual	Dual	Dual	Dual	0		
Card	125khz-EM(KHz-EM)		0	0	0	0	0	
	HID Prox		0	0	0	0	0	
	HID iclass(iC)		0	0	0	0	0	
	13.56MHz Smart Card		0	0	0	0	0	
keypad		Touch Screen	Touch Screen	Touch Screen	Touch Screen	Touch Screen		
Function keys		SOFT	SOFT	SOFT	SOFT	SOFT		
Door Phone		X	X	X	X	X		
FP Sensor (Platen Area) mm		X	Nscan-FM : 16.6 x 21.6	15.5 x 19	15.5 x 19	16.4 x 19.4		
Resolution		X	500dpi	500dpi	500dpi	500dpi		
Dimension	(W) x (H) x (D) mm	96 x 211 x 35.3	160.6 x 214 x 45.4	149.7 x 208 x 56.4	149.7 x 208 x 89.7	80 x 195.6 x 23.5 (Upper) / 54.67 (Lower)		
FRR / FAR		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	-20 ~ 50 °C	-20 ~ 55 °C	-20 ~ 60 °C	-20 ~ 60 °C		

# Software

# UBio Alpeta

This solution supports Access Control, Time & Attendance Management, VMS, License Plate Recognition, Fever Screening System, Mobile card and more by our package policy. UBio Alpeta is fully compatible with 3rd party systems by Alpeta eXbuilder, a web API standard and can easily be customized for user's needs.

## Various Application Fields



## Key Feature



Supports integration with VMS, BMS, TNA, PSIM & Other Security Solutions



Includes UBio Alpeta eXbuilder (Customization Tool)



Standardized WEB API



Supports: Chrome, Safari, Internet Explorer, Edge, Firefox & Opera



Fingerprint Matching Server, 1,000,000 Templates < 0.4 sec



Simultaneous Connection to 2,000 Terminals / 200,000 Users



Customizable and Intuitive UI



Access Control, Time & Attendance, Meal Management, Visitor Registration and More



Registration & Management via Mobile



**FVC**  
**1st**

Fingerprint Verification  
Competition

[www.hitop.co.th](http://www.hitop.co.th)

# Fingkey Access 2



FINGKEY ACCESS 2

FINGKEY ACCESS 2

**NITGEN**  
biometric solutions

## Specification

Model	SW101-M2	
CPU	32 bit/ 400MHz	
Memory	64MB DRAM/ 32MB Flash	
Display	122 x 32 Graphic LCD	
Sensor	Optical/ 500 DPI	
Authentication Type	Fingerprint, Password, RF Card	
Time	1:1	< 1 sec
	1:N	< 1.5 sec (1,000 templates)
Template Capacity	20,000 templates (2 templates/ 1 finger, 10,000 users)	
Log Capacity	100,000 logs	
Communication	TCP/IP, RS232, RS485, Wiegand In/Out	
Lock	Deadbolt, EM Lock, Door strike, Automatic Door	
Environment	-20 ~ 60 °C / RH 90%	
Certificate	KC, CE, FCC	
Dimensions	77 (W) x 178 (H) x 50 (D) mm	

## Product Family

Model	Description
SW101-M2(S)	Standard (Fingerprint, Password)
SW101-M2(M)	Standard, High Frequency Card (13.56MHz) - Mifare
SW101-M2(R)	Standard, Low Frequency Card (125kHz) - HID, EM

## Features

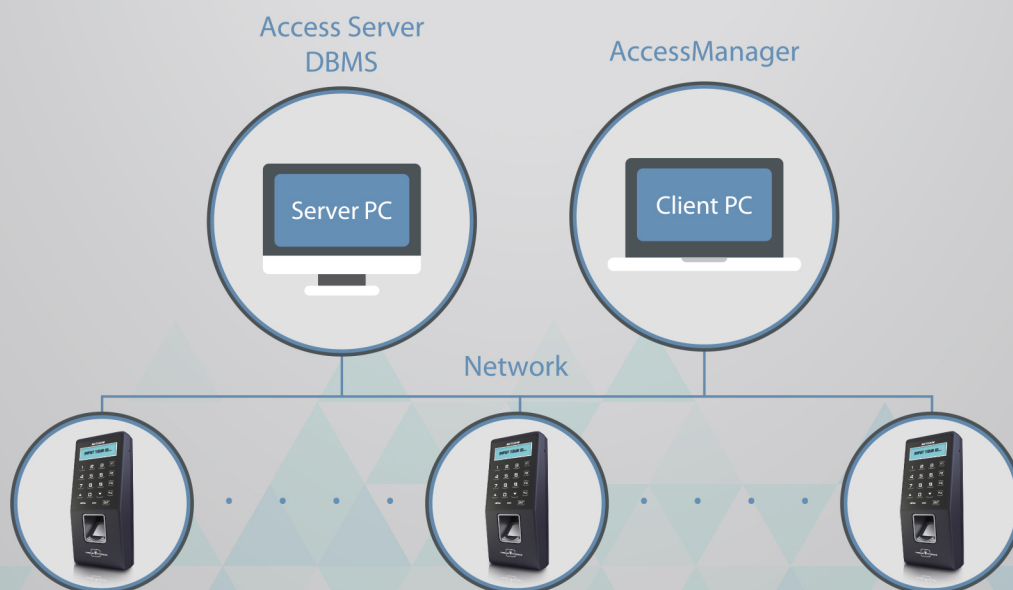
- Superior Matching Engine
  - 1<sup>st</sup> rank in FVC (Fingerprint Verification Competition)
- Touch Keypad
  - Touch Keypad with back light
  - Easy use at night
- IP65 Certification
  - Dustproof/ Waterproof structure
  - Outdoor installation
- Diverse Authentication Types
  - Fingerprint, RF Card and Password
  - Multiple Authentication
- Live Finger Detection
  - Optical sensor and algorithm detect fake fingers.

## S/W Package

>> AccessManager Pro.

Item	Contents
Component	AccessServer / AccessManager / DBMS
Max. Accessing Terminal	2,000 EA
Max. Remote Client	16 (Access Manager)
OS	Windows XP or higher
Max. User	100,000 User ( in the Server )
DBMS	MS SQL 2005 or higher, MS SQL Express 2005 or higher
Similar Fingerprint Check	O

## System Configuration



[www.hitop.co.th](http://www.hitop.co.th)



**Hi-Top Technology Co.,Ltd**

171/4-5 อาคาร ไฮ-ท็อป ซ.ลาดพร้าว 80  
ถ.ลาดพร้าว แขวง/เขต วังทองหลาง กทม. 10310  
เวลาทำการ 8:30 - 17:30 น. โทร 02-995-3293-6