FING**e**RTEC

Beyond Biometrics

Fingerprint, face & card systems for time attendance, access control & online identification

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FINGERTEC

The brand FingerTec was born in 2000, with a visionary objective of bringing the then high-tech fingerprint technology normally used by government sectors into a technology that is viable, affordable and reachable by the mass commercial market. Its first 5-year plan was dedicated to the R&D incubation, mainly targeted in improving the fingerprint matching algorithm, the product's robustness and user-friendliness; in short to provide fundamentals for the brand to soar high when it was launched. Within those 5 years, FingerTec had won 3 international awards as recognition for its technology advancement.

In 2005, FingerTec embarked on the next 5-year plan, which focused more on worldwide market expansion. The plan deployed new branding concepts and strategies, which included product D-I-Y and Internet support & marketing, while continuing its efforts to improve the R&D. The result was stunning; it elevated FingerTec as one of the most recognized biometric brands in the world in a short period of time. With all the above-mentioned elements, FingerTec managed to spread its wings fast and far, doubling its sales every year with its product presence in around 100 countries within these five years.

To further strengthen FingerTec's global position, the third phase of the 5-year plan was introduced in 2010 with a transparent objective to achieve business and technology transformation. We aim to climb the vertical ladder to provide comprehensive solutions for the access control market, and to employ cloud-computing technology for deployment in the time attendance industry. The use of the Android platform and other biometric features such as face and vein recognition would be a part of the FingerTec technology transformation plan to enhance our new product lines.

Beginning with a vision, followed by simple yet viable plans and a smooth execution, FingerTec has started a remarkable revolution, changing the unreachable technology to the state-of-the-art "touchable" products much faster than its rivals, setting a new benchmark for the biometric industry.

You can request marketing DVDs from us. Email your request to info@fingertec.com
Available DVD :
• Marketing Material
• Sales & Product Presentation and Technical Training Kit

Fingerprint

Time Attendance Model

FingerTec time attendance biometric models are ideal for most companies that are looking to track, monitor, and analyze staff attendance effectively. Sturdy in design, all the models come with a complimentary copy of the comprehensive attendance software, *TCMS V2*, or it can be used with the changeable applications, *TimeTec Cloud*, for more elaborate and extensive management features.

SPECIFICATIONS

MODEL	TA300	AC100C	TA100C	TA100TC (Touch keypad)	TA200 Plus
SURFACE FINISHING	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)
TYPE OF SCANNER	Optical fingerprint scanner	Optical fingerprint scanner	Optical fingerprint scanner	Optical fingerprint scanner	Optical fingerprint scanner
MICROPROCESSOR	400 MHz	400 MHz	400 MHz	400 MHz	800 MHz
MEMORY	8 MB flash memory	256 MB flash memory & 32 MB SDRAM	256 MB flash memory & 32 MB SDRAM	256 MB flash memory & 32 MB SDRAM	256 MB flash memory & 32 MB SDRAM
ALGORITHM	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0
DIMENSION (L X W X H), mm	160 x 120 x 127	195 x 48 x 144	190 x 52 x 140	190 x 52 x 140	200 x 56 x 160
STORAGE					
• Fingerprint templates	1500	10000	10000	10000	10000
• Transactions	50000	200000	200000	200000	200000
ENROLLMENT & VERIFICATION					
• Methods	Fingerprint (1:1, 1:N) & password *(Optional RFID Card)*	Fingerprint (1:1, 1:N) & password	Fingerprint (1:1, 1:N) & password *(Optional RFID Card)*	Fingerprint (1:1, 1:N) & password *(Optional RFID Card)*	Fingerprint (1:1, 1:N) card & password
• Recommended fingerprint per user ID	2	2	2	2	2
• Fingerprint placement	Any angle	Any angle	Any angle	Any angle	Any angle
• Verification time (sec)	< 1	< 1	< 1	< 1	< 1
• FAR (%)	< 0.0001	< 0.0001	< 0.0001	< 0.0001	< 0.0001
• FRR (%)	< 1	< 1	< 1	< 1	< 1
CARD TECHNOLOGY					
• RFID: 64-bit, 125kHz	Made to order	✕	Yes *(TA100C-R only)*	Yes *(TA100TC-R only)*	Yes
• MIFARE: MF1S50/S70, 13.56MHz	Made to order	✕	Made to order *(TA100C-MF only)*	Made to order *(TA100TC-MF only)*	Made to order
• HID: HID 1325, 26-bit, 125kHz	Made to order	✕	Made to order *(TA100C-HID only)*	Made to order *(TA100TC-HID only)*	Made to order
COMMUNICATIONS					
• Method	USB cable / connection	TCP/IP, USB disk *(Optional RS232 & RS485)*	TCP/IP, USB disk *(Optional RS232, RS485, WiFi & GPRS)*	TCP/IP, USB disk *(Optional RS232, RS485, WiFi & GPRS)*	TCP/IP, USB disk *(Optional RS232, RS485, POE, WiFi & GPRS, 3G only applicable to non-POE devices)*
• Baud rates	✕	9600~115200	9600~115200	9600~115200	9600~115200
OPERATING ENVIRONMENT					
• Temperature	0 ~ 45	0 ~ 45	0 ~ 145	0 ~ 45	0 ~ 45
• Humidity (%)	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
• Power input	DC 5V 800mA	DC 5V 2A	DC 5V 2A	DC 5V 2A	DC 12V 3A, DC 5V 2A *(POE)*
TIME ATTENDANCE					
• Siren	✕	✕	Built-in and external	Built-in and external	Built-in *(Optional External)*
• Work codes	✕	Yes	Yes	Yes	Yes
MULTIMEDIA					
• Voice	Yes	Yes	Yes	Yes	Yes
• Display	Black and white	3.0" 65k color TFT screen	3.0" 65k color TFT screen	3.0" 65k color TFT screen	3.5" 65k color TFT screen
• Short messaging	✕	Yes	Yes	Yes	Yes
• Music playback	✕	✕	✕	✕	✕
• Movie playback	✕	✕	✕	✕	✕
• Internal backup battery	Yes (DC5V 1300mAh)	✕	✕	✕	✕

For voice/display languages, each model supports a maximum of 3 languages preloaded from a choice of up to 20 different languages. Please refer to **www.fingertec.com** *for details.*

Access Control & Time Attendance Model

FingerTec access control devices are specifically made to manage door accessibilities at your work or home area. These access control models are able to support fingerprint, card, password, or any combination of the three methods as a means of controlling access in a secured area. All FingerTec access control and time attendance models come with a complimentary copy of the powerful *Ingress* software to implement a more advanced access control system. *Ingress* can also be substituted with the *TCMS V2* software for customers that mainly require time attendance functions.

SPECIFICATIONS

MODEL	AC900	R2	R2c (Slave)	H2i	Q2i	i-Kiosk 100 Plus
SURFACE FINISHING	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)
TYPE OF SCANNER	Optical fingerprint scanner	Optical fingerprint scanner	Optical fingerprint scanner	Optical fingerprint scanner	Optical fingerprint scanner	Optical fingerprint scanner
MICROPROCESSOR	400 MHz	400 MHz	Managed by master	300 MHz	800 MHz	600 MHz
MEMORY	128 MB flash memory & 32 MB SDRAM	128 MB flash memory & 32 MB SDRAM	Managed by master	256 MB flash memory & 32 MB SDRAM	256 MB flash memory & 64 MB SDRAM	256 MB flash memory & 64 MB SDRAM
ALGORITHM	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0	Supports BioBridge VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0/VX 10.0
DIMENSION (L X W X H), mm	91 x 40 x 190	94 x 50 x 189	64 x 42 x 135	78 x 50 x 150	200 x 56 x 160	260 x 70 x 320
STORAGE						
• Fingerprint templates	1500	3000	Storage in master terminal	1500	10000	10000
• Transactions	100000	120000	Storage in master terminal	100000	200000	200000
ENROLLMENT & VERIFICATION						
• Methods	Fingerprint (1:1, 1:N) & password	Fingerprint (1:1, 1:N), card & password	Fingerprint (1:N) & card	Fingerprint & card	Fingerprint (1:1, 1:N), card & password	Fingerprint (1:1, 1:N), card & password
• Recommended fingerprint per user ID	2	2	Managed by master	2	2	2
• Fingerprint placement	Any angle	Any angle	Any angle	Any angle	Any angle	Any angle
• Verification time (sec)	< 1	< 1	Managed by master	< 1	< 1	< 1
• FAR (%)	< 0.0001	< 0.0001	Managed by master	< 0.0001	< 0.0001	< 0.0001
• FRR (%)	< 1	< 1	Managed by master	< 1	< 1	< 1
CARD TECHNOLOGY						
• RFID: 64-bit, 125kHz	✕	Yes	Yes	Yes	Yes	Yes
• MIFARE: MF1S50/S70, 13.56MHz	✕	Made to order	Made to order	Made to order	Made to order	Made to order
• HID: HID 1325, 26-bit, 125kHz	✕	Made to order	✕	Made to order	Made to order	Made to order
COMMUNICATIONS						
• Method	TCP/IP, RS232, RS485	TCP/IP, RS232, RS485, USB disk	RS485	TCP/IP, RS485, USB disk	TCP/IP, RS232, RS485, USB disk *(Optional WiFi, GPRS & 3G)*	TCP/IP, RS232, RS485, USB disk & WiFi
• Baud rates	9600~115200	9600~115200	✕	9600~115200	9600~115200	9600 ~ 115200
• Wiegand	26-bit output	26-bit input/output	✕	26-bit input/output	26-bit input/output	26-bit input/output
OPERATING ENVIRONMENT						
• Temperature (°C)	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45
• Humidity (%)	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
• Power input	DC 12V 3A	DC 12V 3A	Managed by master	DC 12V 3A	DC 12V 3A	DC 12V 3A
TIME ATTENDANCE						
• Siren	✕	✕	✕	✕	Built-in *(Optional External)*	Built-in
• Work codes	Yes	Yes	✕	✕	Yes	Yes
MULTIMEDIA						
• Voice	✕	Yes	✕	Yes	Yes	Yes
• Display	Black and white	Black and white	✕	✕	3.5" 65k color TFT screen	8.0" 65k color TFT touch screen panel
• Short messaging	✕	Yes	✕	✕	Yes	Yes
• Music playback	✕	✕	✕	✕	✕	Yes
• Movie playback	✕	✕	✕	✕	✕	Yes
• Internal backup battery	✕	✕	✕	✕	✕	Yes (DC 12V 2000mAh)
ACCESS CONTROL						
• EM lock driving output	DC 12V 3A / relay output	DC 12V 3A / relay output	Managed by master	DC 12V 3A / relay output	DC 12V 3A / relay output	DC 12V 3A / relay output
• Alarm output	NO	NO/NC	Managed by master	NO/NC	NO/NC	NO / NC
• Anti passback	✕	Yes	Managed by master	Yes	Yes	Yes

* All master terminals come packaged with FingerTec software.

Access Control & Time Attendance Model

FingerTec card technology models are suitable for companies that prefer to use practical, convenient tokens during verification to track, monitor and analyze staff attendance. RFID is the default technology employed, however, Mifare and HID card technologies are also available upon request. Mix and match between the master and slave models for a cost effective IN-OUT access control solution. FingerTec door access master models come with a complimentary copy of the advanced door access software, Ingress, and the TimeLine 100 model comes with TCMS V2 software.

SPECIFICATIONS					
MODEL	**TimeLine 100**	**Kadex**	**m-Kadex**	**i-Kadex** (Slave)	**k-Kadex** (Slave)
SURFACE FINISHING	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)	Polycarbonate	Polycarbonate	Acrylonitrile butadiene styrene (ABS)
MICROPROCESSOR	400 MHz	400 MHz	400 MHz	Managed by master	Managed by master
MEMORY	8 MB flash memory & 32 MB SDRAM	8 MB flash memory & 32 MB SDRAM	4 MB flash memory & 32 MB SDRAM	Managed by master	Managed by master
ALGORITHM	BioBridge VX 9.0	BioBridge VX 9.0	BioBridge VX 9.0	Managed by master	Managed by master
DIMENSION (L X W X H), mm	190 x 50 x 140	92 x 49 x 137	92 x 29 x 134	55 x 15 x 100	75 x 20 x 115
STORAGE					
• Cards	10000	30000	30000	Storage in master	Storage in master
• Transactions	30000	50000	50000	Storage in master	Storage in master
ENROLLMENT & VERIFICATION					
• Methods	Card or password	Card or password	Card	Card	Card or Password
• Card per user ID	1	1	1	Managed by master	Managed by master
• Reading distance, mm	40 ~ 80 (RFID, HID), 30 ~ 50 (Mifare)	40 ~ 80 (RFID, HID), 30 ~ 50 (Mifare)	40 ~ 80 (RFID, HID), 30 ~ 50 (Mifare)	40 ~ 80 (RFID, HID), 30 ~ 50 (Mifare)	40 ~ 80 (RFID, HID), 30 ~ 50 (Mifare)
• Verification time (sec)	< 1	< 1	< 1	Managed by master	Managed by master
CARD TECHNOLOGY					
• RFID: 64-bit, 125kHz	Yes	Yes	Yes	Yes	Yes
• MIFARE: MF1S50/S70, 13.56MHz	Made to order	Made to order	Made to order	Made to order	Made to order
• HID: HID 1325, 26-bit, 125kHz	Made to order	Made to order	Made to order	✕	✕
COMMUNICATIONS					
• Method	TCP/IP, USB disk *(Optional RS232 & RS485)*	TCP/IP, RS232, RS485, USB disk	TCP/IP, RS232, RS485, USB disk	Wiegand	Wiegand
• Baud rates	9600 ~ 115200	9600 ~ 115200	9600 ~ 115200	✕	✕
• Wiegand	5	26-bit input/output	26-bit input/output	26-bit output	26-bit output
OPERATING ENVIRONMENT					
• Temperature (°C)	0 ~ 45	0 ~ 45	0 ~ 45	-10 ~ 70	-10 ~ 70
• Humidity (%)	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
• Power input	DC 5V 2A	DC 12V 3A	DC 12V 3A	DC 12V 1A	DC 12V 1A
TIME ATTENDANCE					
• Siren	External	✕	✕	✕	✕
• Work codes	Yes	Yes	✕	✕	✕
MULTIMEDIA					
• Voice	Yes	Yes	✕	✕	✕
• Display	Black and white	Black and white	✕	✕	✕
• Short messaging	Yes	Yes	✕	✕	✕
• Music playback	✕	✕	✕	✕	✕
• Movie playback	✕	✕	✕	✕	✕
• Internal backup battery	✕	✕	✕	✕	✕
ACCESS CONTROL					
• EM lock driving output	✕	DC 12V 3A / relay output	DC 12V 3A / relay output	Managed by master	Managed by master
• Alarm output	✕	NO/NC	NO/NC	Managed by master	Managed by master
• Anti passback	✕	Yes	Yes	Managed by master	Managed by master

Access Control & Time Attendance Model

FingerTec advanced face recognition technology offers a contactless mode of verification for time attendance and door access control with an optional card technology embedded as well. Scan a face to get accurate verifications in split seconds. FingerTec access control and time attendance models come with a complimentary copy of the advanced access control software, Ingress, which can be substituted with TCMS V2 software for customers that mainly require time attendance functions. Suitable for application in areas such as hospitals, labs, workshops, etc.

SPECIFICATIONS

MODEL	Face ID 2	Face ID 3	Face ID 4	Face ID 4d
SURFACE FINISHING	Acrylonitrile butadiene styrene (ABS) & acrylic	Acrylonitrile butadiene styrene (ABS) & acrylic	Acrylonitrile butadiene styrene/polycarbonate blend	
TYPE OF SCANNER	Hi-res infrared camera & fingerprint scanner	High resolution infrared camera	High resolution infrared camera	High resolution infrared camera
MICROPROCESSOR	800 MHz	800 MHz	800 MHz	800 MHz
MEMORY	256 MB flash memory & 128 MB SDRAM	256 MB flash memory & 128 MB SDRAM	256 MB flash memory & 128 MB SDRAM	
ALGORITHM	Face BioBridge VX 8.0, FP BioBridge VX 9.0/10.0	Face BioBridge VX 8.0	Face BioBridge VX 8.0	Face BioBridge VX 8.0
DIMENSION (L X W X H), mm	207 x 120 x 145	86 x 62 x 218	148 x 148 x 122	148 x 148 x 122
STORAGE				
• Fingerprint templates	10000	✕	✕	✕
• Face templates	500	400	400	400
• Cards	10000	10000	10000	10000
• Transactions	200000	100000	100000	100000
ENROLLMENT & VERIFICATION				
• Methods	Face (1:1, 1:N), fingerprint (1:1, 1:N), card or password	Face (1:1, 1:N), card or password	Face (1:1, 1:N), card or password	Face (1:1, 1:N), card or password
• Recommended fingerprint per user ID	2	✕	✕	✕
• Fingerprint placement	Any angle	✕	✕	✕
• Verification time – Fingerprint (sec)	< 1	✕	✕	✕
• Verification time – Face (sec)	< 2	< 2	< 2	< 2
• Fingerprint	FAR < 0.0001%, FRR < 1%	✕	✕	✕
• Face	FAR < 0.01%, FRR < 0.1%	FAR < 0.01%, FRR < 0.1%	FAR < 0.01%, FRR < 0.1%	FAR < 0.01%, FRR < 0.1%
CARD TECHNOLOGY				
• RFID: 64-bit, 125kHz	Yes	Yes	Yes	Yes
• MIFARE: MFIS50/S70, 13.56MHz	Made to order	Made to order	Made to order	Made to order
• HID: HID 1325, 26-bit, 125kHz	Made to order	Made to order	✕	✕
COMMUNICATIONS				
• Method	TCP/IP, RS232, RS485, USB disk *(Optional WiFi,GPRS & 3G)*	TCP/IP, RS232, RS485, USB disk *(Optional WiFi)*	TCP/IP, USB disk, USB client *(Optional WiFi)*	
• Baud rates	9600 ~ 115200	9600 ~ 115200	✕	✕
• Wiegand	26-bit output	26-bit input / output	✕	✕
OPERATING ENVIRONMENT				
• Temperature (°C)	0 ~ 45	0 ~ 45	0 ~ 45	0 ~ 45
• Humidity (%)	20 ~ 80	20 ~ 80	20 ~ 80	20 ~ 80
• Power input	DC 12V 3A	DC 12V 3A	DC 12V 3A	DC 12V 3A
TIME ATTENDANCE				
• Siren	Built-in and external	Built-in and external	Built-in	Built-in
• Work codes	Yes	Yes	Yes	Yes
• Fast transaction checking	Yes	Yes	Yes	Yes
MULTIMEDIA				
• Greeting voice	Yes	Yes	Yes	Yes
• Display	4.3" 65K color TFT touch rcreen panel	3.0" 65K color TFT touch screen panel	3.0" 65K color TFT touch screen panel	3.0" 65K color TFT touch screen panel
• Photo-ID	Yes	Yes	Yes	Yes
• Short messaging	Yes	✕	Yes	Yes
• Day light saving timer	Yes	Yes	Yes	Yes
• Internal backup battery	Yes (DC 12V, 2000m Ah)	✕	✕	✕
ACCESS CONTROL				
• EM lock driving output	DC 12V / relay output	DC 12V / relay output	✕	DC 12V / relay output
• Alarm output	NO/NC	NO/NC	✕	NO/NC
• Anti passback	✕	Yes	✕	Yes

Mechanical Lock Model

FingerTec mechanical lock models present advanced and sophisticated fingerprint door locks, suitable for use in important rooms, banks, labs and hotels. By default, RFID card technology is embedded in the models for an added verification option. Each model comes with a complimentary copy of *Ingress* advanced access control software.

SPECIFICATIONS

MODEL	Keylock 7700	Keylock 8800
SURFACE FINISHING	Zinc alloy	Zinc alloy
TYPE OF SCANNER	Optical fingerprint scanner	Optical fingerprint scanner
MICROPROCESSOR	400 MHz	400 MHz
MEMORY	32 MB flash memory	4 MB flash memory
ALGORITHM	BioBridge VX 10.0	BioBridge VX 9.0
RESOLUTION OF SCANNER (dpi)	560	560
DIMENSION (L X W X H), mm	150 x 93 x 268	150 x 195 x 310
• Thickness of door (mm)	35-70	35-55
• Door latch type	Single tongue *(Keylock 7700S)* Double tongue *(Keylock 7700D)*	Mortise, 3-tongue
• Inner lock switch	Yes	Yes
STORAGE		
• Fingerprint templates	500	500
• Passwords	100	100
• Cards	100	100
• Transactions	30000	30000
ENROLLMENT & VERIFICATION		
• Methods	Fingerprint (1:1, 1:N), card & password	
• Recommended fingerprint per user ID	2	2
• Fingerprint placement	Any angle	Any angle
• Verification time (sec)	< 1	< 1
• FAR (%)	< 0.0001	< 0.0001
• FRR (%)	< 1	< 1
• Password length (digits)	6	8
CARD TECHNOLOGY		
• RFID: 64-bit, 125kHz	Yes	Yes
• MIFARE: MF1S50/S70, 13.56MHz	Made to order	Made to order
• HID: HID 1325, 26-bit, 125kHz	✕	Made to order
COMMUNICATIONS		
• Method	USB disk	USB disk
• Baud rates	✕	✕
• Wiegand	✕	✕
OPERATING ENVIRONMENT		
• Temperature (°C)	0 ~ 45	0 ~ 45
• Humidity (%)	20 ~ 80	20 ~ 80
• Power input	4 x 1.5V AA battery for 4000 operations	
• Power consumption – static (uA)	< 35	< 40
• Power consumption – activity (mA)	< 150	< 100
• Power consumption – driving (mA)	< 200	< 400
• Antistatic voltage (V)	> 1500	> 1500
• Low battery warning voltage (V)	< 4.5	< 4.67
BACKUP UNLOCK MECHANISM	Battery & mechanical key	Battery & mechanical key

* All master terminals come packaged with FingerTec software.

Simple Door Access Model

FingerTec non-communicative readers are simple plug-and-play door access terminals that require no additional software to function. Offering fingerprint, card and/or password, these independent readers are suitable for small businesses and homes.

SPECIFICATIONS

MODEL	H3i	s-Kadex
SURFACE FINISHING	Acrylonitrile butadiene styrene (ABS)	Acrylonitrile butadiene styrene (ABS)
TYPE OF SCANNER	Optical fingerprint scanner	✕
MICROPROCESSOR	400 MHz	400 MHz
MEMORY	32 MB flash memory	32 MB flash memory
ALGORITHM	BioBridge VX 10.0	BioBridge VX 10.0
DIMENSION (L X W X H), mm	88 x 25 x 88	88 x 25 x 88
STORAGE		
• Fingerprint templates	200	✕
• Cards	500	500
• Passwords	8 sets	8 sets
ENROLLMENT & VERIFICATION		
• Methods	Fingerprint (1:1, 1:N), card or password	card or password
• Recommended fingerprint per user ID	1	✕
• Fingerprint placement	Any angle	✕
• Password length (digits)	Max 4	Max 4
• Verification time (sec)	< 1	< 1
• FAR (%)	< 0.0001	✕
• FRR (%)	< 1	✕
CARD TECHNOLOGY		
• RFID: 64-bit, 125kHz	Yes	Yes
• MIFARE: MF1S50/S70, 13.56MHz	Made to order	Made to order
• HID: HID 1325, 26-bit, 125kHz	✕	✕
OPERATING ENVIRONMENT		
• Temperature (°C)	0 ~ 45	0 ~ 45
• Humidity (%)	20 ~ 80	20 ~ 80
• Power input	DC 12V 3A	DC 12V 3A
ACCESS CONTROL		
• EM lock driving output	DC 12V/relay output	DC 12V/relay output
• Alarm output	NO only	NO only
• Door sensor	Yes (NO/NC)	Yes (NO/NC)
GROUP VERIFY TYPE		
• Password only	Yes	Yes
• Card only	Yes	Yes
• Fingerprint only	Yes	✕
• Fingerprint, card or password	Yes	Yes (Card or password only)
• Card and password	Yes	Yes
• Fingerprint and password	Yes	✕

Logical Access Model

FingerTec logical access fingerprint readers (OFIS) are designed to work with our single sign on enterprise software application and developer's tools (SDKs) for integration with select applications. It comes complimentary with the OFIS Gateway software, providing a quicker and safer way to use fingerprints for PC login authentication. OFIS TA for attendance system is also available for purchase.

SPECIFICATIONS

MODEL	OFIS-X	OFIS-Y
ALGORITHM	BioBridge VX 9.0 / VX 10.0	BioBridge VX 9.0 / VX 10.0
SUPPORTING OS	32-bit Windows XP, Windows Vista, Windows 7	32/64-bit Windows XP, Windows Vista, Windows 7, Windows 8, Windows Server 2008
PIXEL RESOLUTION	512 dpi (average x, y over the scanning area)	512 dpi (average x, y over the scanning area)
SCAN CAPTURE AREA	17 mm x 26 mm	15 mm x 18 mm
SCAN DATA	8-bit grayscale (256 levels of gray)	8-bit grayscale (256 levels of gray)
READER SIZE (APPROXIMATE) (L X W X H), MM	45 x 78 x 40	45 x 78 x 40
COMPATIBILITY	USB 1.0, 1.1 and 2.0 (full speed) specifications	USB 1.0, 1.1 and 2.0 (full speed) specifications
OS/BROWSER	MS Windows/ MS Internet Explorer (IE 9)	MS Windows/ MS Internet Explorer (IE 9)
POWER SUPPLY	5.0V +/- 0.25V USB supply	5.0V +/- 0.25V USB supply
OPERATING TEMPERATURE (°C)	0 – 55	0 – 55
OPERATING HUMIDITY (%)	20 – 80 non-condensing	20 – 80 non-condensing
STANDARD FCC CLASS	FCC Class B, CE, USB	FCC Class B, CE, USB
USAGE	Indoor, home and office use	Indoor, home and office use

FEATURES

- Small form factor
- Excellent scan quality
- Encrypted fingerprint data
- Latent print rejection
- Counterfeit finger rejection
- Rotation invariant
  - *Recognize dry, moist, or rough fingerprints*
  - *Compatible with FingerTec's standalone readers and software products*
  - *Compatible with: Windows XP, Windows Vista, Windows 7, Windows 8, Windows Server 2003, Windows Server 2008*

APPLICATIONS

- Desktop computer security
- Registration station for users
- Mobile PCs
- Custom applications
- Home and office use

Security Hub for Smart Control

The FingerTec controllers, Ingressus I and II, are designed to provide access control functions for 1 and 2-door environments respectively. Ingressus can be used in combination with FingerTec slave readers and accessories for a more economical and flexible door access control solution. Each controller comes complimentary with FingerTec's advanced access control software, *Ingress*.

SPECIFICATIONS

MODEL	Ingressus I	Ingressus II
BASIC		
• Dimension (mm)	186 x 36 x 106	186 x 36 x 106
• Power input	12V DC	12V DC
• Operating temperature (°C)	0 to 45	0 to 45
• Operating humidity (%)	20 to 80	20 to 80
• CPU	32-bit, 400MHz	32-bit, 400MHz
• Flash memory (MB)	128	128
• SDRAM (MB)	32	32
• Polarity protection	Yes	Yes
STORAGE		
• Fingerprints	3000	3000
• Cards	30000	30000
• Passwords	30000	30000
• Transactions	100000	100000
COMMUNICATIONS		
• Communications with server	TCP/IP, RS485	TCP/IP, RS485
• Quantity of terminal	2	4
• Communication with terminals	2 x 26-bit wiegand input. Each for 1 slave terminal. (1 x RS485 input to support RS485 network - *max 2 units*)	4 x 26-bit wiegand input. Each for 1 slave terminal. (1 x RS485 input to support RS485 network - *max 4 units*)
INPUT		
• Push release button	1	2
• Door sensor	1	2
• AUX	1	2
• Types of AUX input supported	Motion & passive DIR detector, curtain passive infrared pet & immunity PIR detector, two-beam digital active infrared detector, heat detector	
OUTPUT		
• Door lock (12VDC 10A Form C relay)	1	2
• AUX output (30VDC 2A Form C relay)	1	2
• Types of AUX output supported	Gas detector and compatible sensors, Piezo strobe siren, electronic siren	
ACCESS CONTROL		
• Door opening time (sec)	0 to 999	0 to 999
• Inter-locking	✕	Yes
• Anti passback	Local only	Local only
• Multi card unlocking	Yes	Yes
• First card unlocking	Yes	Yes
• Time zone	50	50
• Holiday time zone	Yes	Yes
• Permanent door release/ lock time zone	Yes	Yes
• Day light saving time zone	Yes	Yes
• Continuous verification of users	Yes	Yes
SECURITY FEATURES		
• Door force open alarm	Yes	Yes
• Door open time out alarm	Yes	Yes
• Fire linkage	Yes	Yes
• Duress alarm	Yes	Yes
• Door status and event	51 types	51 types

Hardware Selection Guide

FingerTec has an extensive range of biometrics and card products. This guide serves as an initial tool for you to compare it against your requirements and budget. Once you have decided on the models you want or you have further questions, email us at *info@fingertec.com* for detailed discussions. FingerTec pledges to make things easy for you, always.

MODEL / FEATURE	METHOD				LCD DISPLAY		COMMUNICATION						FUNCTIONALITY		Bundled Software	Price Range
	Fingerprint	Face	Card	Password	Black & White	Color	RS232/485	TCP/IP	WiFi/GPRS	3G	USB	Wiegand	Time Attendance	Door Access		
Fingerprint Time Attendance Model																
TA300	✓	✗	A	✓	✓	✗	✗	✗	✗	✗	✓	✗	✓	✗	TCMS V2	★
AC100C	✓	✗	✗	✓	✗	✓	A	✓	✗	✗	✓	✗	✓	✗	TCMS V2	★★
TA100C	✓	✗	✗	✓	✗	✓	A	✓	A	✗	✓	✗	✓	✗	TCMS V2	★★★
TA100C-R	✓	✗	✓	✓	✗	✓	A	✓	A	✗	✓	✗	✓	✗	TCMS V2	★★★
TA100TC	✓	✗	✗	✓	✗	✓	A	✓	A	✗	✓	✗	✓	✗	TCMS V2	★★★
TA100TC-R	✓	✗	✓	✓	✗	✓	A	✓	A	✗	✓	✗	✓	✗	TCMS V2	★★★
TA200 PLUS	✓	✗	✓	✓	✗	✓	A	✓	A	A	✓	✗	✓	✗	TCMS V2	★★★★
TA200 PLUS (POE)	✓	✗	✓	✓	✗	✓	A	✓	A (WiFi only)	✗	✓	✗	✓	✗	TCMS V2	★★★★
Fingerprint Access Control & Time Attendance Model																
AC900	✓	✗	✗	✓	✗	✓	✓	✓	✗	✗	✓	✓	✓	✓	Ingress	★★
R2	✓	✗	✓	✓	✗	✓	✓	✓	✗	✗	✓	✓	✓	✓	Ingress	★★★
R2c*	✓	✗	✓	✗	✗	✗	RS485 only	✗	✗	✗	✗	✗	✓	✗		★
H2i	✓	✗	✗	✗	✗	✗	RS485 only	✓	✗	✗	✓	✓	✓	✓	Ingress	★★
Q2i	✓	✗	✓	✓	✗	✓	✓	✓	A	A	✓	✓	✓	✓	Ingress	★★★★
i-Kiosk 100 Plus	✓	✗	✓	✓	✗	✓	✓	✓	✓	✗	✓	✓	✓	✓	Ingress	★★★★★
RFID Card Access Control & Time Attendance Model																
TimeLine 100	✗	✗	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓	✓	✗	TCMS V2	★★★
Kadex	✗	✗	✓	✓	✓	✗	✓	✓	✗	✗	✓	✓	✓	✓	Ingress	★★★
m-Kadex	✗	✗	✓	✗	✗	✗	✓	✓	✗	✗	✓	✓	✓	✓	Ingress	★★
k-Kadex*	✗	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗		★
i-Kadex*	✗	✗	✓	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗		★
Face Recognition Access Control & Time Attendance Model																
Face ID 2	✓	✓	✓	✓	✗	✓	✓	✓	A	A	✓	✓	✓	✓	Ingress	★★★★★
Face ID 3	✗	✓	✓	✓	✗	✓	✓	✓	A (WiFi only)	✗	✓	✓	✓	✓	Ingress	★★★★
Face ID 4	✗	✓	✓	✓	✗	✓	✗	✓	A (WiFi only)	✗	✓	✗	✓	✗	TCMS V2	★★★
Face ID 4d	✗	✓	✓	✓	✗	✓	✗	✓	A (WiFi only)	✗	✓	✓	✓	✓	Ingress	★★★
Fingerprint Mechanical Lock Model																
Keylock 7700	✓	✗	✓	✓	✓	✗	✗	✗	✗	✗	✓	✗	✓	✓	Ingress	★★★
Keylock 8800	✓	✗	✓	✓	✓	✗	✗	✗	✗	✗	✓	✗	✓	✓	Ingress	★★★
Fingerprint Logical Access Model																
OFIS Series	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓	✗	✗	✗	Gateway	★
Fingerprint & Card Simple Door Access Model																
H3i	✓	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓		★
s-Kadex	✗	✗	✓	✓	✗	✗	✗	✗	✗	✗	✗	✗	✗	✓		★
Controller Security Hub for Smart Control																
Ingressus I	✓	✗	✓	✓	✗	✗	RS485 only	✓	✗	✗	✓	✓	✓	✓	Ingress	★★
Ingressus II	✓	✗	✓	✓	✗	✗	RS485 only	✓	✗	✗	✓	✓	✓	✓	Ingress	★★★

*= Slave reader | ✓ = Available | ✗ = Not available | A = Available Upon Request

Soft**ware Selection Guide**

FingerTec offers a variety of different types of software to suit the different business needs. With all the different requirements, comparing the **different** software functions can be a little tricky. So here's a selection guide to help you out with the details, similarities, and differences between our offered software

APPLICATION / FEATURE	Ready Software or SDK	FUNCTIONALITY		Report	Export Format	Web-based Application	Database Engine	COMPATIBILITY		Language	Price
		Time Attendance	Door Access					Hardware	OS/Browser		
WINDOWS APPLICATION											
TCMS V2	Ready Software	✓ Advanced	✓ Simple	30	Csv, txt and xls	✕ Only TCMS V2 Viewer module	Native Foxpro Database	All FingerTec hardware, except H3i, s-Kadex & Ingressus controller	Windows XP, Server 2003, Server 2008, Windows Vista, Windows 7, Windows 8	English, Arabic, Arabic (Kuwait), Chinese Traditional / Simplified, Persian, French, German, Indonesian, Italian, Korean, Lithuanian, Malay, Polish, Portuguese, Portuguese (Brazil), Russian, Spanish, Thai, Turkish, Vietnamese	Bundled with hardware terminals
ingress	Ready Software	✓ Advanced	✓ Advanced	19	Csv, txt and xls	✕	MySQL	All FingerTec hardware & Ingressus controller except H3i & s-Kadex		English, Arabic, Chinese Traditional / Simplified, Spanish, Thai, Russian, Malay	
FOUNDER DiGiPAY	Ready Software	Payroll Software (Malaysia Market), TCMS V2 Compatible		18	✕	✕	Native Foxpro Database	N/A		English, Malay, Chinese Simplified	Payable
CLOUD-BASED APPLICATION											
timeTec cloud	Ready System www.timeteccloud.com	✓	✕	31	Csv, txt and xls	✓	MySQL	Face ID 2/3/4/4d, AC900, R2, R2/R2c, H2i, Kadex, AC100C, TA100C, TA100TC, TA200 Plus, i-Kiosk 100 Plus, Q2i	Safari, Chrome, Firefox, Internet Explorer, Android and iOS Apps	English, Arabic, Chinese Traditional / Simplified, Indonesian, Spanish	Subscription
EpiCamera	Ready System www.epicamera.com	Cloud Surveillance, Video Surveillance as a Service (VSaaS)		1	zipped jpg	✓	MySQL	All IP Cameras that support FTP features.		English	Subscription
SOFTWARE TOOLS											
FTDP FINGERTEC DATA PROCESSOR	Ready Software	To manage and edit user, fingerprint, log and reader information		✕	Txt, xls xml, html	✕	MS Access/ MS SQL	All FingerTec hardware, except H3i, s-Kadex & Ingressus controller	Windows XP, Server 2003, Server 2008, Windows Vista, Windows 7, Windows 8	English	Bundled with hardware terminals
info Manager Simple User Management	Ready Software	To manage user data and fingerprint information		✕	✕	✕	MS Access	OFIS scanner, Mifare card writer		English	
GATEWAY	Ready Software	Single Sign On PC Login Security		✕	✕	✕	✕	OFIS scanner	Windows 2000, XP, Vista, Windows 7, Windows 8	English, Chinese Traditional / Simplified, Japanese	Bundled with OFIS scanner
SDK *(www.fingertec.com/developerprogram)*											
Bio Bridge SDK	SDK : To integrate FingerTec terminals to any third party system	✓	✓	N/A	N/A	✕	N/A	All models except Keylock, OFIS, H3i, s-Kadex & Ingressus	Windows XP, Server 2003, Server 2008, Windows Vista, Windows 7, Windows 8	N/A	Free for developers
WEBSTER	SDK : Online web-based platform to consolidate and centralize the db for time attendance	✓	✕	N/A	N/A	✓	MySQL	Face ID 2/3/4/4d, AC900, R2, R2/R2c, H2i, Kadex, AC100C, TA100C, TA100TC, TA200 Plus, i-Kiosk 100 Plus, Q2i	Windows XP, Server 2003, Server 2008, Vista, Windows 7, Windows 8, Safari, Chrome, Firefox, Internet Explorer	English, Malay, Chinese Simplified, Spanish	Payable
OFIS SDK	SDK: To integrate OFIS scanner with any solutions	N/A	N/A	N/A	N/A	✓	✕	OFIS scanner	Windows XP, Server 2003, Server 2008, Vista, Windows 7, Windows 8	English	Free for developers
ingressUS SDK	SDK: To integrate Ingressus with third party access control software	✓	✓	N/A	N/A	✕	✕	Ingressus controller	Windows XP, Server 2003, Server 2008, Vista, Windows 7, Windows 8	English	Free for developers

✓ = Available | ✕ = Not available | N/A = Not applicable | *Online update is available for all FingerTec softwares.*

Authorized Reseller

Two DVDs loaded with Self-Learn Video Guides, Comprehensive Time Management Software (TCMS V2), Advanced Door Access Software (Ingress) and useful resources available with every purchase of FingerTec terminal.

NOTE *Specifications are subject to change. Check* **http://product.fingertec.com** *for latest product information.*