



# RFID & BIOMETRICS ACCESS CONTROL SYSTEM



# I. IDTECK OVERVIEW

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THE NEW PARADIGM OF SECURITY

## 1990

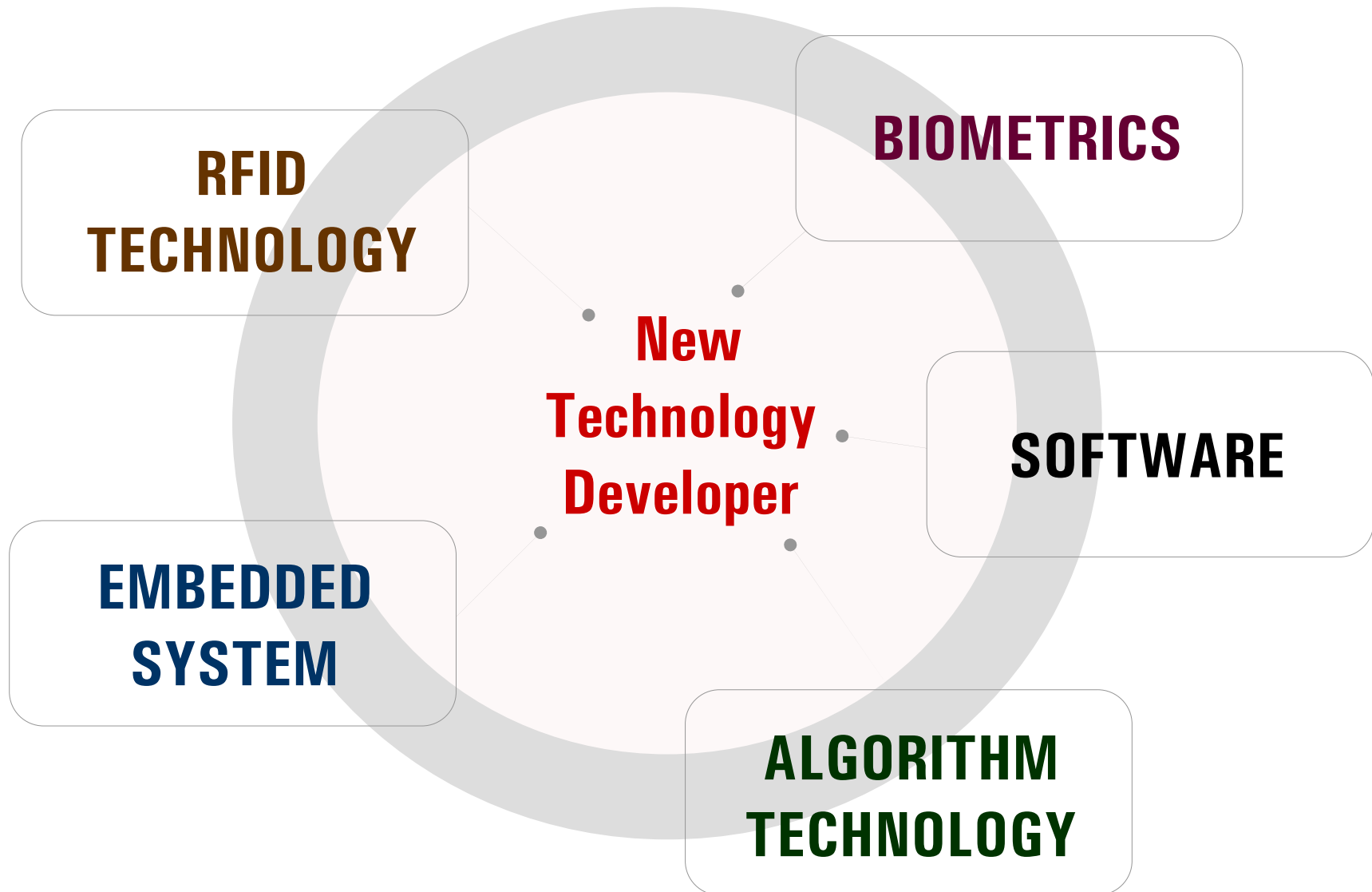
### CREATE BUSINESS

- 1989** • Founded Private firm
- 1995** • Development of RF Reader  
• Established R&D Center

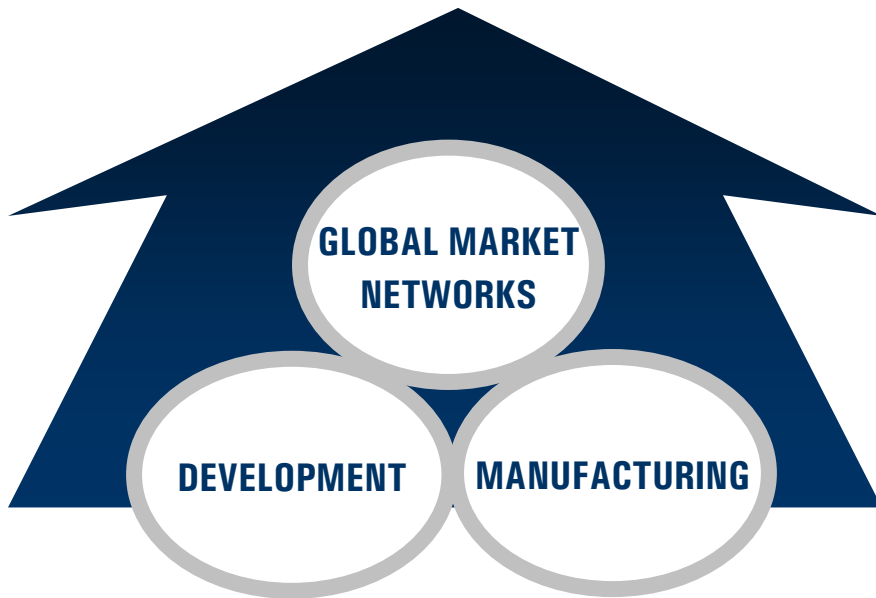
## 2000

### BUSINESS EXTENSION IN THE WORLD MARKET

- 2000** • FCC, UL, CE Certified  
• Set-up for U.S branch office (RF Logics) and Hong Kong branch( IDTECK H.K)
- 2001** • Contract with Motorola (US) / OEM  
• ISO9001 Certified
- 2002** • Superior Exporting Firm Certificate Awarded  
• Selected as INNO-BIZ Firm  
• Digital Innovation Award
- 2003** • KT Mark Certified for new technology
- 2004** • Member of Biometrics Research Center Certificate of Golden Brand
- 2005** • Significant Growth Developing New Technology, increasing sales and adding significantly to its line of product  
• Excellence in Export Award
- 2006** • Award industrial Service Medal of Venture Korea  
• Launched IDTECK e-training center ([www.idtecktraining.com](http://www.idtecktraining.com))  
• RoHS, WEEE Certified
- 2007** • Development of Embedded OA system, Web-based software  
• Selected from World first-class Commodity Award
- 2008** • Development of 900MHz Reader
- 2009** • Award KOTRA Seal of Excellence  
• Obtain United States Patent for Facial Recognition  
• Obtain Korea Patent for Facial Recognition & Access Control System



## VALUE CREATION through INNOVATION



### DEVELOPMENT

- RFID TECHNOLOGY(125KHz, 13.56MHz, 900MHz, 2.45GHz)
- EMBEDDED TECHNOLOGY (LINUX/WIN CE, DSP, AVR)
- BIOMETRICS & ALGORITHM (Fingerprint, Facial Recognition)
- SOFTWARE (2-tier, 3-tier, Web based)

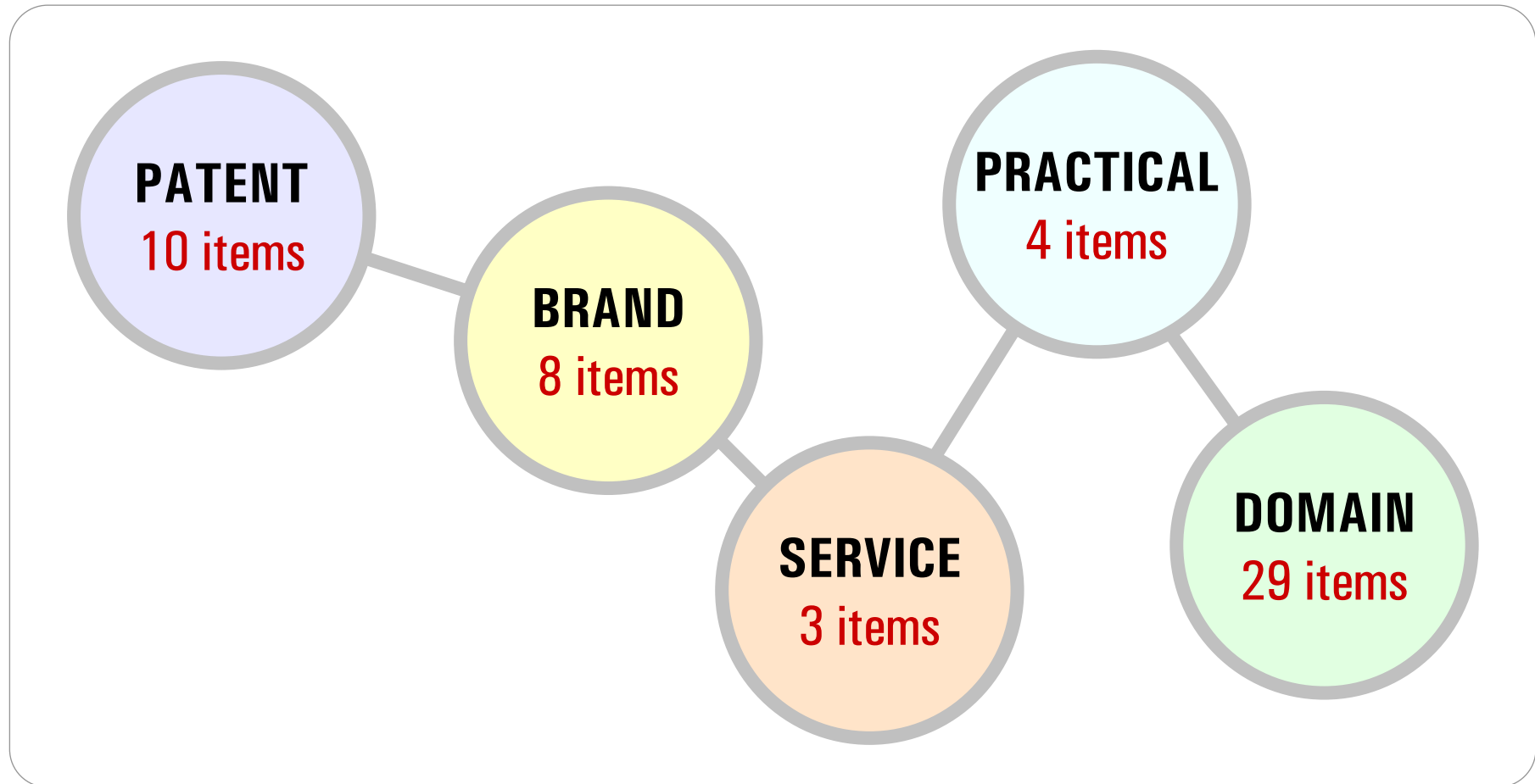
### MANUFACTURING

- RF CARD & READER
- SMART CARD & READER
- FINGERPRINT READER & FACE READER
- ACCESS CONTROLLER & MANAGEMENT S/W

### GLOBAL MARKET NETWORKS

- DISTRIBUTOR
- SYSTEM INTEGRATION
- DEALER

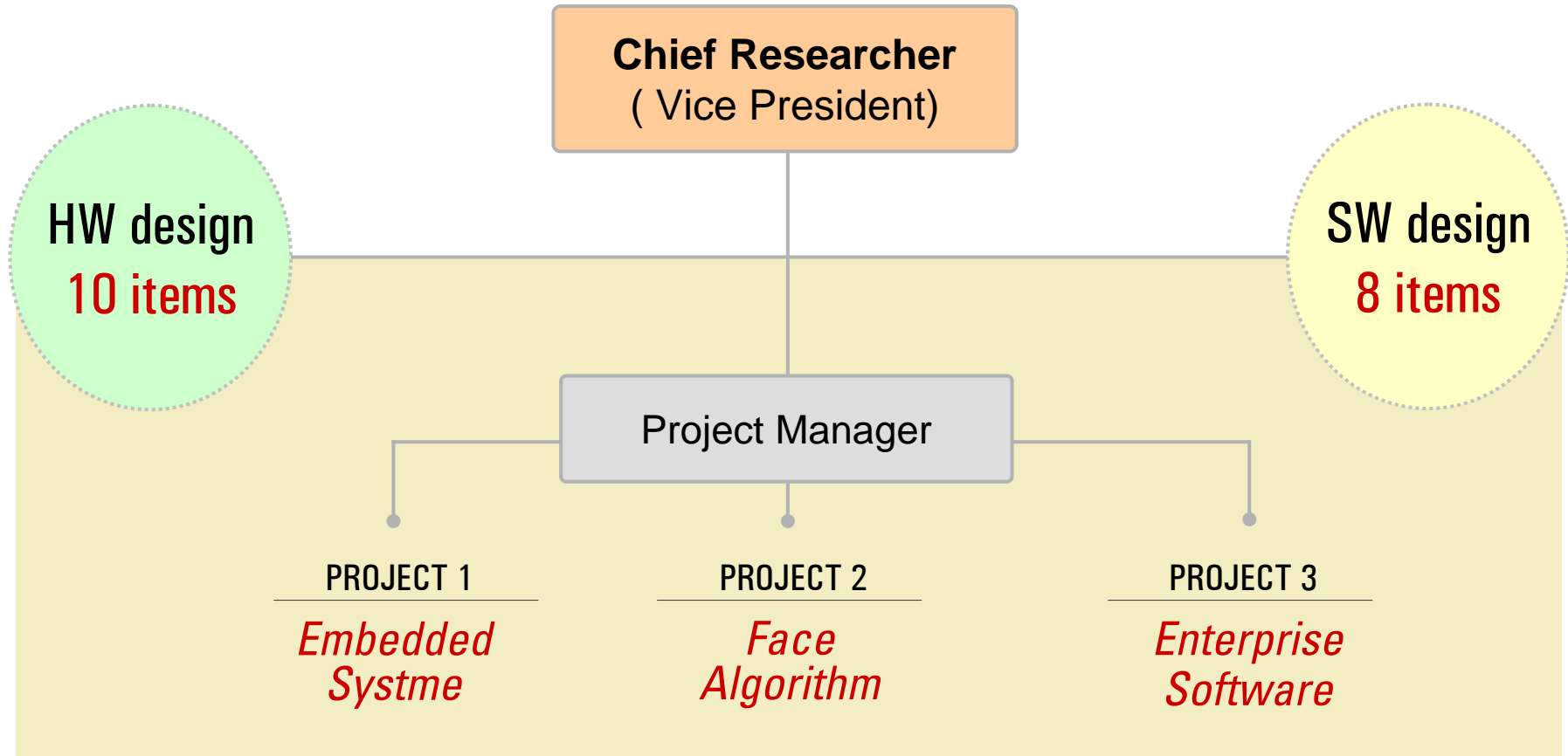
“ **IDTECK** is a company that secures its properties ”



# II. ENGINEERING & PRODUCT OVERVIEW

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THE NEW PARADIGM OF SECURITY



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**Total 30 researcher** ( Regular 23researcher, Outsourced 7researcher)

### BIOMETRICS

Fingerprint

Face Recognition

Multi Modal

### RFID

125KHz RFID

13.56MHz

2.45GHz

900MHz, UWB

### ACCESS CONTROL

16 bit based controller

32bit based controller

Embedded system

### SOFTWARE

2Tier Architecture

3Tier Architecture

Web Architecture

## BIOMETRICS



MULTI MODAL



FACE007



LX007



FINGER007



FGR006

## PC-BASED CONTROLLER



iMDC  
( 32 DOOR )



iTDC  
( 4 DOOR )



iCON100  
( SINGLE DOOR )



ELEVATOR384  
(ELEVATOR CONTROLLER)

## STANDALONE ACCESS CONTROLLER



LX505



505R



100R



RFL200



PDL700

## PROXIMITY READER SMART(MIFARE) READER



RF TINY



RF10 / SR10 / IP10



RF20 / IP20



RFK101 / SRK101



RF30 / SR30



RF70



RF245

## PROXIMITY CARD SMART CARD



IDC170



IDC80 / ISC80



IDK50 / ISK50



IMC125



IDA150



IDA200



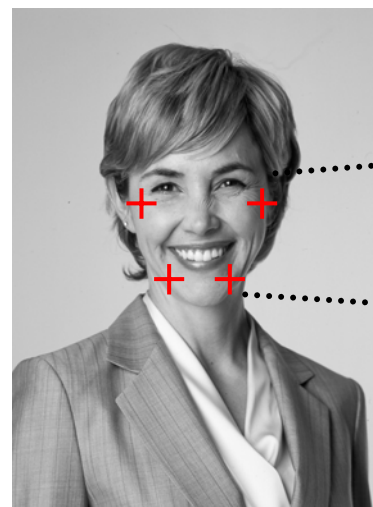
IDA245

- **Biometric technology** is used for measuring and analyzing human body characteristics such as fingerprints, voice patterns, facial patterns, hand measurements, iris patterns for authentication purposes.
- **IDTECK** provides rugged and full function finger biometric products as well as the finest facial recognition system available today.

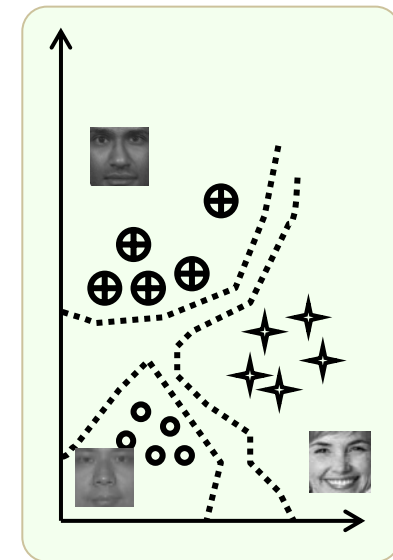
- **Standalone based product**  
DSP based embedded system
- **Powerful Algorithm**  
Based on PCA  
(Principal Component Analysis)
- **Fast Verification**  
Less than 0.5 Sec.



Image taking



Face detection



Feature extraction  
Intelligent Classification

## ▶ FACE RECOGNITION STANDALONE CONTROLLER & READER

❖ Coming soon

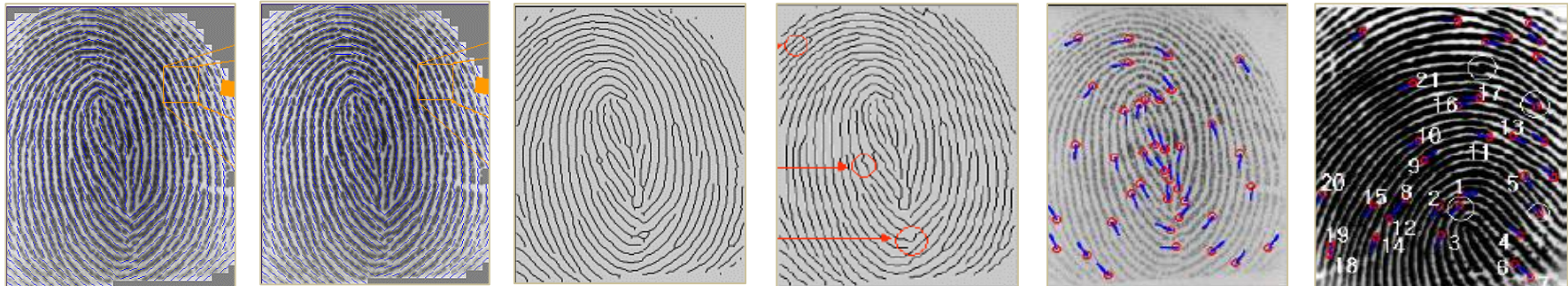


MULTI MODAL



FACE SERIES

- High quality optical sensor
- Powerful and accurate algorithm (Based on Minutiae recognition)
- High Performance (Up to 4000 user identification)
- Fast recognition ( Verification time/identification time)



## ► FINGERPRINT STANDALONE CONTROLLER & READER

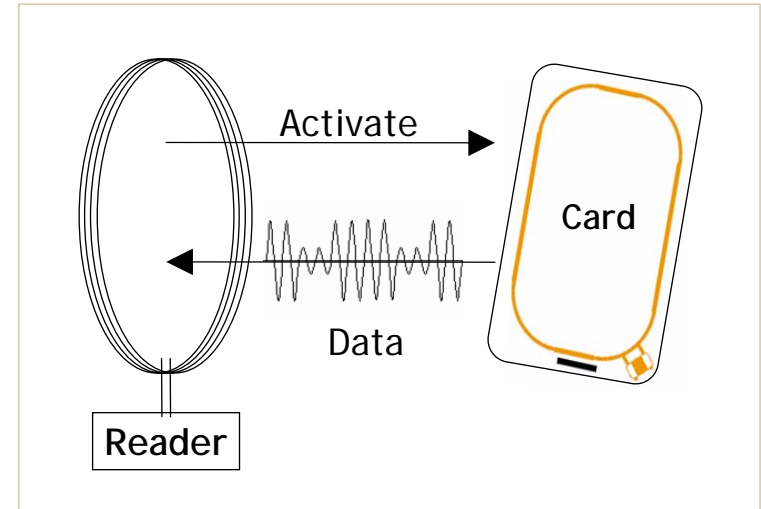


LX SERIES



FINGER007/006 SERIES

- **Radio Frequency Identification Devices (RFID)** is a data communication method for remotely storing and retrieving data between a Reader and a Card / Tag. The communication distance range from a couple inches to many meters.
- **IDTECK** offers commercially viable applications for Access control, Asset tracking, Vehicle control, Passenger bag tagging, Electronic tokens etc.



### • STAR series line (PSK)

High Security  
High end product  
IDTECK Exclusive format

### • I-PASS series line (ASK/EM )

Lower Security  
Low end product

### • Special Format

INDALA COMPATIBLE(PSK)  
HID COMPATIBLE(FSK)  
Customer's format of  
ASK, PSK and FSK

## ▶ 125KHz RFID READER (PSK)



PSK READER SERIES

## ▶ 125KHz RFID READER (ASK)



ASK READER SERIES

## ▶ 125KHz RFID STANDALONE CONTROLLER



STANDALONE CONTROLLER

## ▶ 125KHz RFID CARD/TAG



CARD / TAG

## SR/SRU SERIES

MIFARE CARD READER / CARD SERIAL NUMBER READ ONLY

### High Compatibility

- 13.56 MHz[MIFARE] contactless smart card reader
- ISO 14443 Type A/B
- Card serial number reading
- Data output format : 34 bit wiegand (default) / RS232, ABA Track II (optional)

## SR-RW SERIES

READ & WRITE SMART CARD READER

### One Card Solution

- 13.56 MHz[MIFARE] Contactless smart card reader & writer
- Various application supports such as canteen management, cashless payment, etc.
- Data output format : 26 or 34 bit wiegand (default) / RS232, ABA Track II (optional)



## SRS SERIES

IDTECK CREDENTIAL READER / READ ONLY

### High Security Level, Convenient Card Registration, Business Protection

- 13.56 MHz[MIFARE] Contactless smart card reader
- IDTECK CREDENTIAL ID number reading written in a memory sector of a block
- Data output format : 1~255 bit wiegand (default) / RS232, ABA Track II (optional)

## SRB SERIES

FINGERPRINT STORED SMART CARD TECHNOLOGY

### Privacy Protection, Unlimited Fingerprint User Applicable

- 13.56 MHz[MIFARE] Contactless smart card reader
- Fingerprint reading from the MIFARE card
- ID number + Fingerprint Template
- Data output format : 26 bit wiegand (default) / RS232, ABA Track II (optional)

## ► SR/SRU SERIES



SMART CARD READ ONLY SERIES

## ► SRS SERIES



IDTECK CREDENTIAL SMART CARD READER SERIES

## ► SR-RW SERIES



READER & WRITER SERIES

## ► SRB SERIES



FINGERPRINT STORED SMART CARD READER SERIES

## ▶ 2.45 GHz (3,5,10m Adjustable)

- Long Range Reader RF245-3M : 3m(10feet), RF245-5M : 5m(17 feet), RF245-10M : 10m(34feet)with IDA 245 Active Tag
- Encrypted tag ID and Secure Protocols between Reader and Tags
- Multiple Tags Identification (30 Tags / Sec)
- 90° , One-directional Antenna
- 360° , Omni-directional Antenna (optional / Suitable for Asset Control and Personal Tracking)
- Applications : Parking Control, Logistics Tracking, Asset Control, Personal Tracking



## ▶ 900MHz (5 ~ 10m Adjustable) on Development

- Tag type: Passive and active tag
- Special Feature: Anti-collision, Multi tag reading
- Application: Parking Control & Asset tracking



▶ 2.45GHz LONG RANGE READER

▶ ACTIVE TAG WITH REPLACEABLE BATTERY / TAG PROGRAMMER



RF245 (3, 5, 10m Available)



IDA245 / IDA245H2

PRG3000

## ▶ AVR system

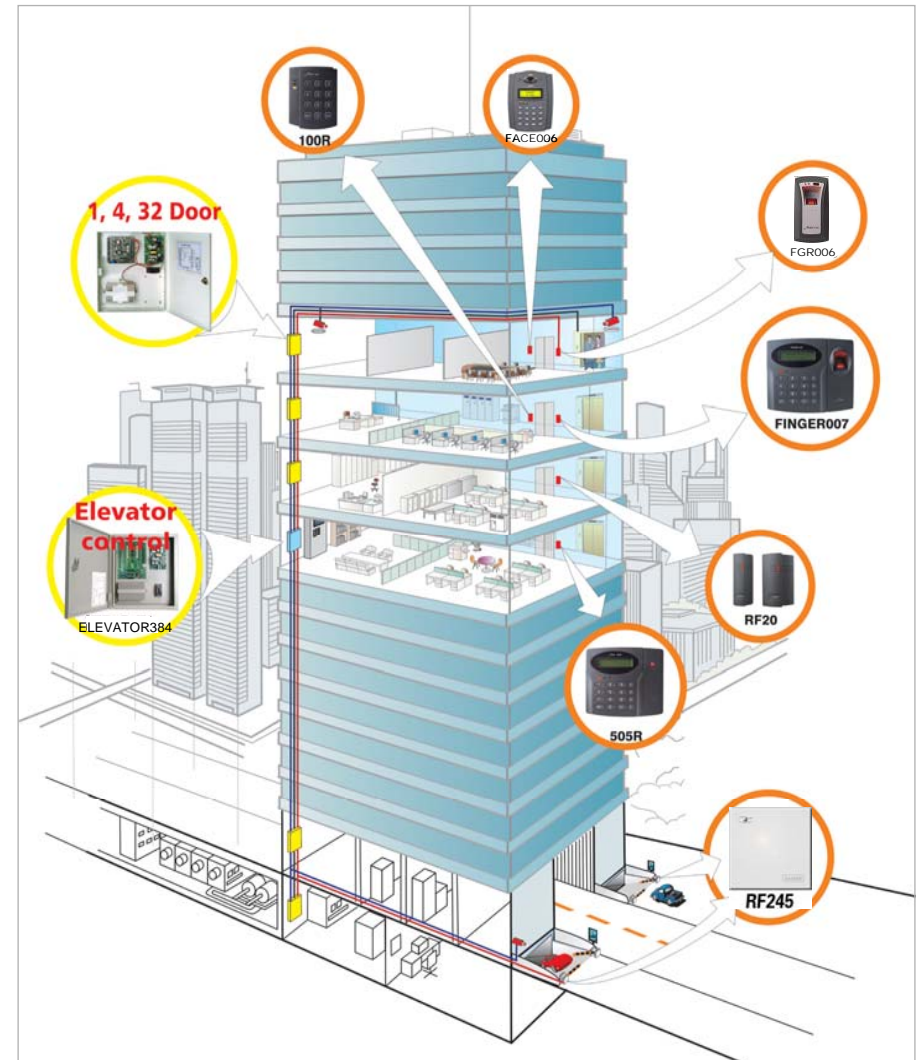
- Embedded flash memory
- Strong in security with encrypted programming
- Remote program upgrade via boot loader
- Applied for ICON100, FGR006, FGR007 and many more

## ▶ DSP system

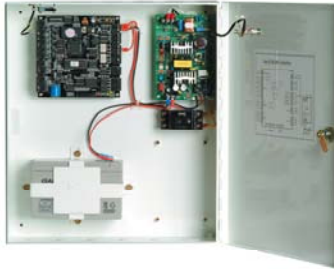
- 32bit processor system with OS of DSP BIOS
- Multi tasking and multi threads.
- Strong in video in/output manage
- Proper for face and fingerprint algorithm
- Applied for FACE and Multi modal products

## ▶ Embedded Linux

- 32bit processor system with OS of Linux
- Multi tasking and multi threads.
- Flexible to connect peripherals such as TCP/IP, USB etc.
- Applied to iMDC Controller



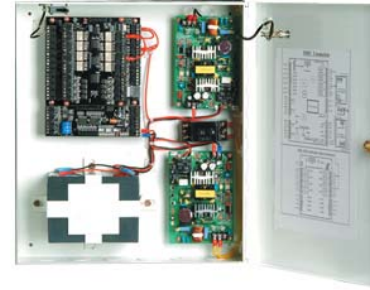
## ▶ SINGLE DOOR ACCESS CONTROLLER



- Single Door Controller
- Up to 10,000 User
- Up to 7,250 events
- 5 inputs/4 outputs
- Serial, TCP/IP, Dial-up modem

iCON100

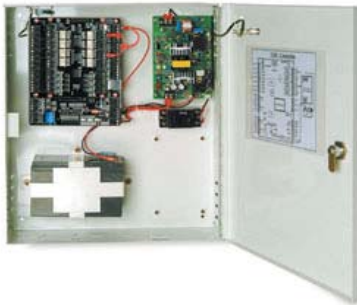
## ▶ MULTI DOOR(4) ACCESS CONTROLLER



- 2/4 Door Controller
- Up to 50,000 User
- Up to 29500 events
- 7 inputs/7 outputs
- Expandable 8 inputs/8
- Serial, TCP/IP, Dial-up modem

iTDC

## ▶ MULTI DOOR ELEVATOR CONTROLLER



- Lift Controller
- 12 floor control
- Up to 32 units connectible
- Serial, TCP/IP, Dial-up modem

ELEVATOR384

## ▶ MULTI DOOR(32) ACCESS CONTROLLER



- 32 Door Controller
- Embedded OA System (Linux)
- Up to 200,000 User
- Up to 200,000 Event Buffers
- Up to 128 inputs/ up to 128 outputs
- Serial, TCP/IP, Dial-up modem

※ Coming soon

iMDC

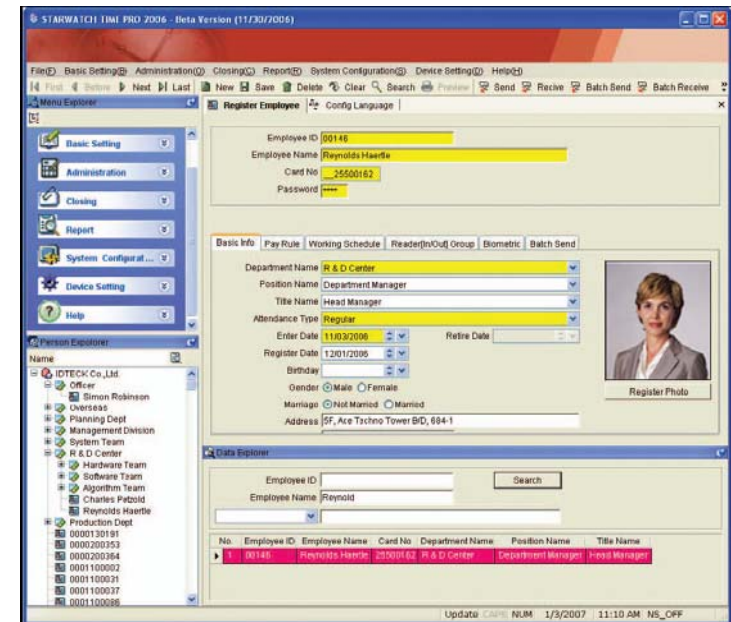
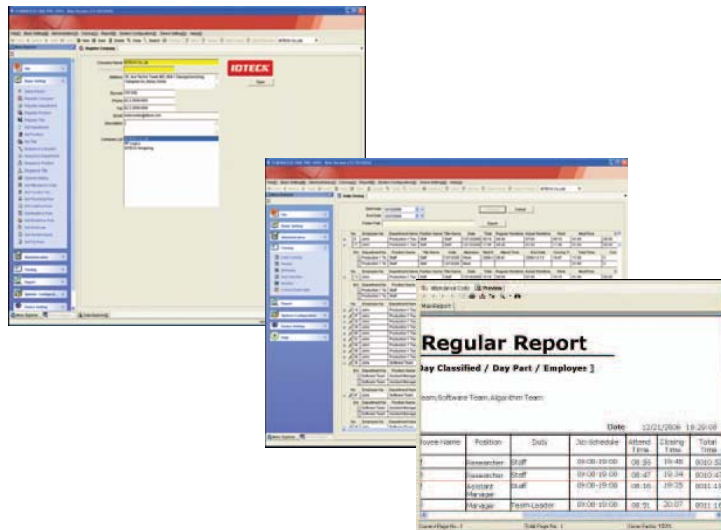


- Multi language support
- Multi loop support of serial, TCP/IP and dial-up modem
- MS Access, MS SQL and Oracle Database

## ► STARWATCH TIME PRO Software

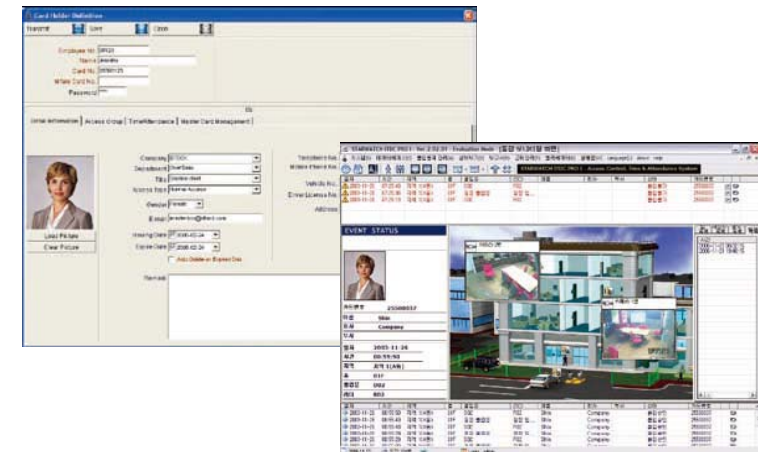
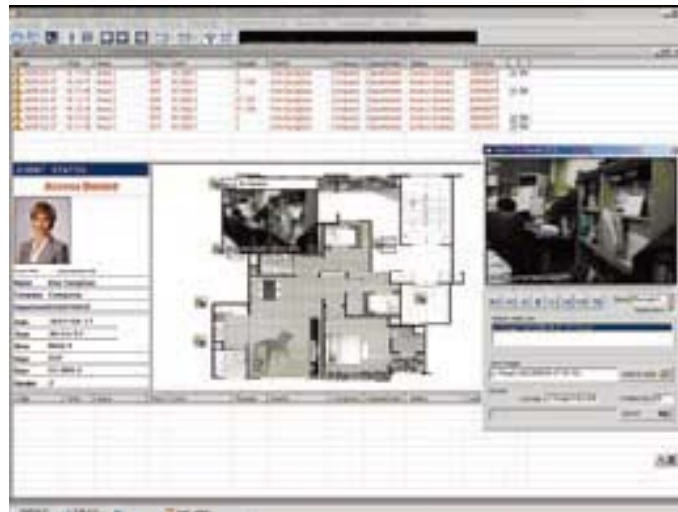
STARWATCH TIME PRO is professional time & attendance software that effectively manages most possible work rules and conditions such as multi-shift, complicated overtime work rules and more.

- ▢ Professional time & attendance software
- ▢ User-designed screen image and company logo on its windows
- ▢ Multiple language support (English, Spanish, Portuguese, Italian, French, Korean, Chinese, Japanese, Arabic, Russian)
- ▢ Online help and effective search
- ▢ User-oriented system configuration and options
- ▢ Powerful administration functions
- ▢ Dynamic reports and data connection
- ▢ Extremely easy setup wizard for initial configurations



## ► STARWATCH iTDC PRO I/II, DUAL PRO I/II

- ▢ Access control management including elevator control, visitor management and personal tracking system
- ▢ Import/Export utility
- ▢ Graphical maps and system overview
- ▢ Alarm event mappings and routings
- ▢ Escort control
- ▢ Guard tour/ mustering reports
- ▢ Powerful network support (TCP/IP, serial and dial-up communication)
- ▢ Multiple language support
- ▢ Intelligent access control of individual cardholders, groups and time schedules
- ▢ Integrated basic time & attendance and visitor management
- ▢ Microsoft Access (iTDC PRO I, DUAL PRO I), Microsoft SQL server2000 and MSDE (iTDC PRO II, DUAL PRO II)



## ► *STARWATCH STANDARD*

The STARWATCH STANDARD is application software for the access control and Time & Attendance with standard features. The software is compatible with all of IDTECK's standalone/network access controllers such as 505R, FGR007, FINGER007, LX505, LX007, iCON100 and iTDC. The STARWATCH STANDARD S/W is simple and easy application software with some limited features.

- ▢ Access Control and Time & Attendance Software
- ▢ Compatible with all of IDTECK's standalone/network access controller (FINGER007 Series, 505R Series, LX Series, iCON100 Series, iTDC Series and more)
- ▢ Wizard & diagram functions for easy installation / Extensive tool tip information
- ▢ Multiple sites management
- ▢ Multiple company supports
- ▢ Integrated multi-screen monitoring
- ▢ User interface color themes
- ▢ User defined reports



## ► *STARWATCH VIEW PRO*

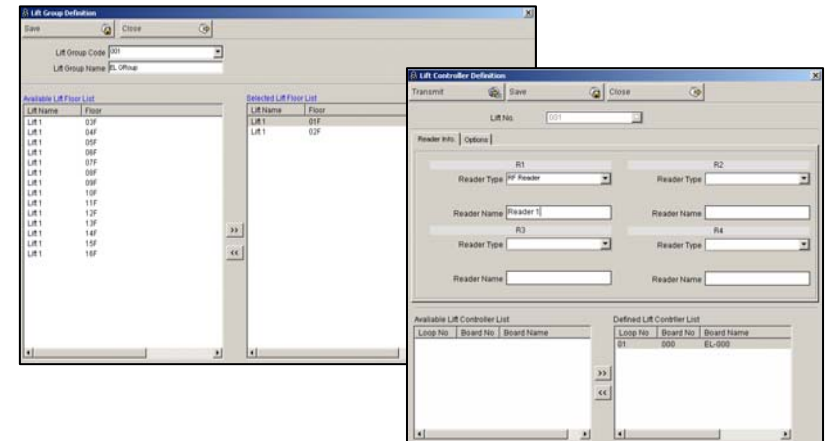
The STARWATCH VIEW PRO is add-on software for the integration of access control system and video surveillance system. The VIEW PRO software can be added to IDTECK's STARWATCH iTDC PRO I, PRO II, STARWATCH DUAL PRO I and PRO II software. The VIEW PRO software is to monitor real-time video and to record the video from the access point where the event is activated. The software supports to monitor up to 32 cameras in real-time.

- ┌ Supports various DVR, web server and web camera
- ┌ Real-time Video Monitoring up to 32 cameras
- ┌ Multi monitors support (16ch per each monitor)
- ┌ Video clip playback / Sequential view available
- ┌ Supports PTZ control
- ┌ Supports full duplex sounds
- ┌ Supports web for remote control and monitoring
- ┌ Able to set up frame rate, compression, resolution, motion detection area and more
- ┌ Records user-defined pre-alarm recording time
- ┌ User-defined map and camera display



## ► STARWATCH ELEVATOR PRO

- ▣ Apply time schedule to reader
- ▣ Restriction on using Elevator about user and visitor
- ▣ Direct control on Elevator by Software
- ▣ Report of the present condition on visitor's use of elevator
- ▣ Elevator user report, Elevator event report
- ▣ Compatible with ELEVATOR384, RF10, RF20, RF30, RFK101, RF TINY



## ► STARWATCH ID BADGING PRO

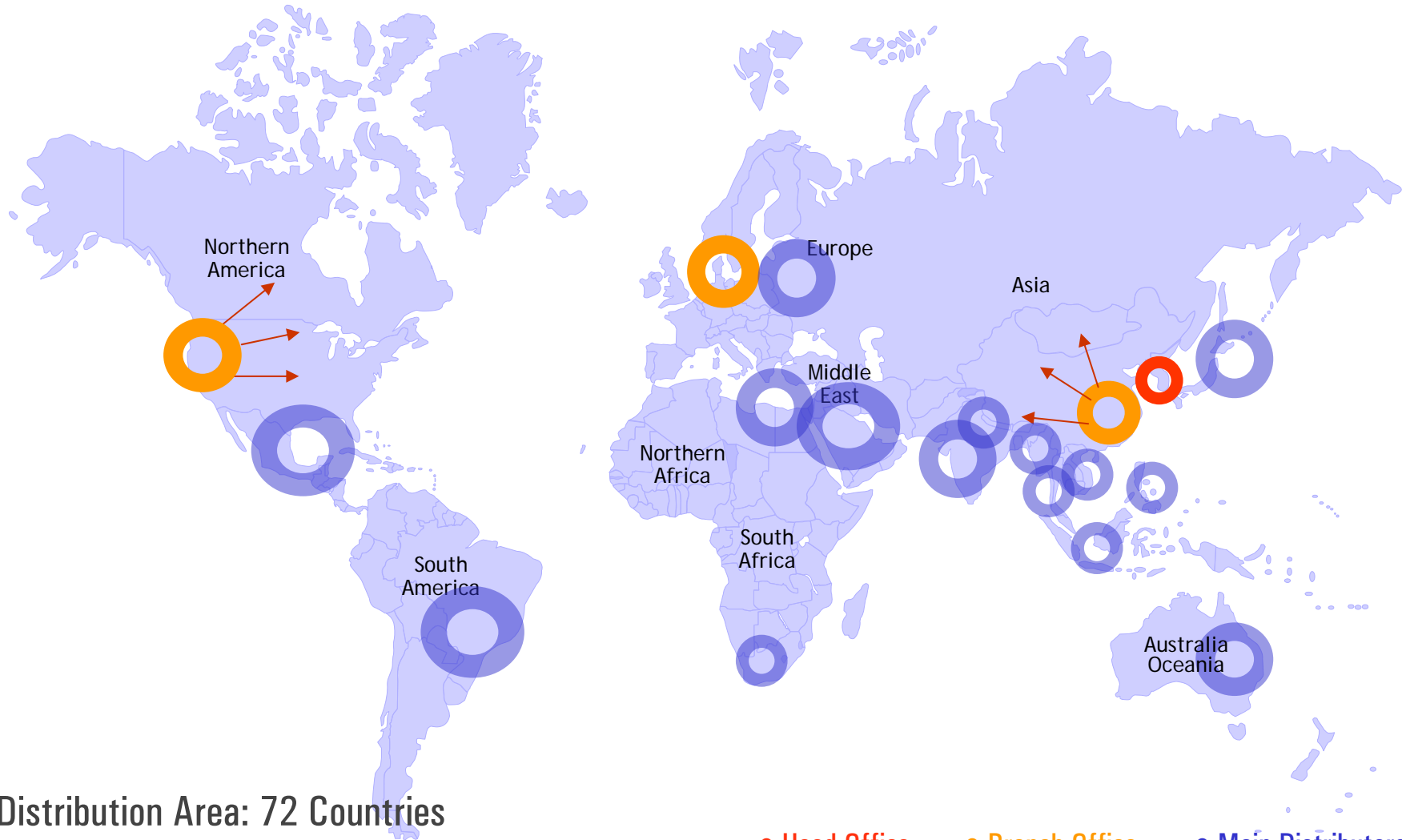
- ▣ Easy to be added on access control system software (iTDC PRO I/II, DUAL PRO I/II, LX ACCESS PRO I/II) (modular software)
- ▣ Compatible with various card printer such as Eltron and Fargo etc
- ▣ Easy card design tool
- ▣ Batch card issuing available based on database
- ▣ Print preview
- ▣ Image capturing from PC camera, Digital camera and Scanner
- ▣ Card issuing history report



# III. SALES & MARKETING STRATEGY

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THE NEW PARADIGM OF SECURITY



- Distribution Area: 72 Countries
- Distribution Companies: 194 Companies

- **Trouble Shooting / Tech Support**



### Troubleshooting

Solve the problems occurred while using or installing IDTECK Product.

- **Update Information Service**



### Update Information

Share the information of technical or functional changes of each product.

- **On-line Commerce Service**



### Purchase Order

Make an order conveniently through online-system.

- **Newsletter / Mailing Service**



### IDTECK Newsletter Service

The Company Leads High Security  
The Leader High-End Security Technology

- **On-line RMA Service**



### Online RMA

Request online RMA service for IDTECK products.

- **Training Service**



### e-Training

Educate yourself through IDTECK online training service.

- **Yes-ID Cash Point Service**



## ► IDTECK WEBSITE (www.idteck.com)

**IDTECK** LOGIN : MEMBER JOIN : SITEMAP e-Training Center

ABOUT IDTECK | PRODUCTS | SUPPORT | DOWNLOAD | NEWSROOM

**First Time Here?**  
Move to **Member Join**

**Already Member?**  
Move to **Member Login**

**IDTECK e-Training Center**

**How to Order**

**BIOMETRICS** | SMART CARD | RFID TECHNOLOGY | ACCESS CONTROL

**BIOMETRICS**  
Fingerprint & Facial Recognition System

**RMA REQUEST**   
Representatives will contact you with RMA instructions

**TROUBLESHOOTING**   
This service will help you solve the problems you have with our products.

**Special Offer in June**  
**READER SERIES**  
**>> CLICK**

**MEMBERSHIP SERVICE**

**my page** **yes! ID CASH POINT**

**NEWS & EVENT** [MORE](#)

**NEW UPDATE**


Update information	Architect & Engineer Specification
<ul style="list-style-type: none"> <li>• DUAL PRO II</li> <li>• DUAL PRO I</li> <li>• ITDC PRO II</li> </ul>	<ul style="list-style-type: none"> <li>• FINGER007SRB Architect...</li> <li>• PRG2000B Architect &amp; E...</li> <li>• SR10RW / SR30RW / SRK1...</li> </ul>


[HELP](#) | [PRIVACY POLICY](#) | [SITEMAP](#)

Language Korean | German | Chinese | Spanish | Russian

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 TEL. 82-2-2659-0055 FAX. 82-2-2659-0086

## ► IDTECK e-TRAINING CENTER (www.idtecktraining.com)

**IDTECK** e-Training Center    ABOUT / TRAINING / SUPPORT / CERTIFICATE    



### IDTECK e-Training Center


**First Time here?**  
Welcome to the IDTECK online training center.  
[Move to the "Member Join"](#)

**Already IDTECK Member?**  
Use your IDTECK user ID&PW  
**Member Login** » [Forgot your e-mail ID/PW?](#)  
ID (e-mail)   
Password  [Login](#)


#### IDTECK e-Training Center Class













**NEW** STARWATCH DUAL PRO I [sample](#)  
Starwatch Dual Pro is specially designed to program and to manage the IDTECK access control system. Starwatch Dual Pro supports...

**HOT** FINGER007 INSTALLATION [sample](#)  
FINGER007 is the state of the art access controller that provides time & attendance function and fingerprint access control with RFID system...

**Real Time Class**  
Real time training is a cyber class room designed to enable ... 

"No schedule for Real Time Training."

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Country	Company/Institution Name		Reader Installed
USA	Pentagon		FINGER007
USA	Washington DC a juvenile guidance Center		505R
Mexico	Navy of Mexico		FINGER007
Mexico	Sea Port of Mazatlan, Lazaro Cardenaz		iTDC
Mexico	Instituto Politecnico Nacional		505R
Paraguay	BBVA BANCO ( Bank)		FINGER007/FINGER006
Brazil	Agencia Petroleo Brasil		505R
Brazil	Pfizer Inc. Brazil		505R
Panama	McDonald		505R
Panama	Global Bank		FINGER007
Chile	AGENCIA DE ADUANA HERNAN TELLE		505R
Ecuador	ANDEAN TELECOM		FINGER007


















: RF Card



: Fingerprint



: Facial Recognition

Country	Company/Institution Name		Reader Installed
Saudi Arabia	ARAMCO (National oil company )		505R, FINGER007
Saudi Arabia	Marriot Hotel		FINGER007
UAE	Dubai Airport		FINGER007
UAE	Dubai Exchange Center		FINGER007
Turkey	Foreign Affair Building		RF 10 / iTDC
Turkey	Turktrust (Bank)		iTDC
Turkey	Turkish Coal Enterprise		iTDC
Turkey	National Army		iTDC
Kuwait	KUWAIT MINISTRY OF JUSTICE AND MINISTRY OF DEFENCE	 	RF ID & Fingerprint
Kuwait	Korean Embassy	 	RF ID & Fingerprint
Kuwait	Indonesian Embassy	 	RF ID & Fingerprint
Kuwait	American Express		RF ID & iTDC

















: RF Card




















: Fingerprint



: Facial Recognition

Country	Company/Institution		Reader Installed
Bulgaria	The ministry of National defense		iTDC
Bulgaria	Bulgarian Nuclear Power Plant	 	iTDC, FRG006
Bulgaria	DSK Bank		iTDC, RF TINY
Hungary	Budapest National Museum		505R
Hungary	Budapest National Museum		505R
Italia	Milano Exhibition Center		505R
Norway	Museum Munch	 	FACE007, iTDC, RF TINY
Spain	UNIVERSITY OF BARCELONA		FINGER007
Spain	AUDI (Cars)		100R
Spain	Calle 30 ( Highway Toll Gate)		iTDC, RF TINY
Spain	Calle 30 ( Highway Toll Gate)		iTDC, RF TINY
Spain	BEYMA (Factory)		505R

 : RF Card    
  : Fingerprint    
  : Facial Recognition

Country	Company/Institution		Reader Installed
Portugal	Internal Administration Ministry		FINGER007
Portugal	Sea Port of Viana do Castelo	 	iTDC, FGR006, RF TINY
Portugal	Minho University		FINGER007
Portugal	Lojas Nike - Nike's Stores		100R
Yugoslavia	LHB bank		100R
Yugoslavia	LHB bank		100R
Romania	Oracle Tower		17 pcs of iTDC , 34pcs of RF TINY
Romania	40branches bank in Romania		iCON100 and RF TINY
Croatia	Croatian Tollgate of motorway		SR20RW
HONG KONG	Hong Kong Police Office	 	FACE007, iTDC, RF TINY
Philippine	The Ministry of Justice		FINGER007/FINGER006
Thailand	Bangkok Bank Ltd.		FINGER007



: RF Card


















: Fingerprint



: Facial Recognition

## ► Public Institution

Client	Project		Remark
Ministry of foreign affairs and trade	Construct Access Control System	 	RF ID & Finger print
Ministry of information and communication Republic of Korea	Construct Access Control System	 	RF ID & Finger print
The Ministry of government administration and home affairs	Construct Access Control System	 	RF ID & Finger print
The Ministry of government administration and home affairs announce center	Construct Access Control System		RF ID
Ministry of information and communication Republic of Korea computation computer office	Construct Access Control System and CCTV	 	RF ID & CCTV
Ward Office	Over time/ Dept meal & Access Control System	 	RF ID & Finger print
1363 Force of Korean military	Construct Access Control System	  	RF ID, Finger print, CCTV, Visitor, Guard tour, Perimeter System (tension)
Defense Intelligence Command	Construct Access Control System		RF ID
Ministry of nation defense	Construct Access Control System	  	RF ID, Perimeter, CCTV, Visitor, Guard tour etc.
Seoul city hall	Construct Access Control System		RF ID
Post office (Regional Communication Office)	Construct Time & Access System		Finger print



: RF Card

















: Fingerprint



: Facial Recognition

## ▶ Private Firms

Client	Project		Remark
KIDC center	Construct Access Control System		RF ID
Institution of life science	Construct Access Control & Time and Attendance System		RF ID
Korea Research Institute of Chemical Technology	Construct Access Control & Car Control System		RF ID
Pohang Accelerator	Construct Access & key Control System		RF ID
Carrefour	Construct Exit & Avoid drain product System		Application
ASEM Tower	Construct Access Control System		RF ID
SK Engineering Construction	Construct Labor Control System		RF ID
LG Group	Construct Access Control System		RF & Smart Card
CJ IDC center	Construct Access Control System & CCTV	 	RF ID & Finger print
Chunju Hundai Automobile	Construct Access Control System		RF ID
Ssangyong information and communications	Construct Access Control System		RF ID
Boston Bank	Construct Access Control System		RF ID
KTF (korea telecom fretel)	Construct Access Control System		RF ID
Korea eclectic power corporation	Construct nation unmanned transformer system		RF ID



: RF Card









: Fingerprint



: Facial Recognition

## ► School (Academy)

Client	Project		Remark
Seoul National Univ. veterinary college	Construct Access Control System		RF ID
Chung Cheong Univ.	Construct Access Control System		RF ID
Sogang Univ.	Construct Access Control System and CCTV		RF ID
Yonsei Univ. Won Ju Campus	Construct Access Control System		RF ID
Po hang Institute of Technology Univ.	Construct Access Control System	 	RF ID & fingerprint

\* There are more result beside the above statements (For 16 years result)



: RF Card



: Fingerprint



: Facial Recognition

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